No.500



Stylishly subtle hardware **highlights displays**





SUGATSUNE

Since 1930

Manufacturer of LAMP® brand products

Furniture & Architectural Hardware



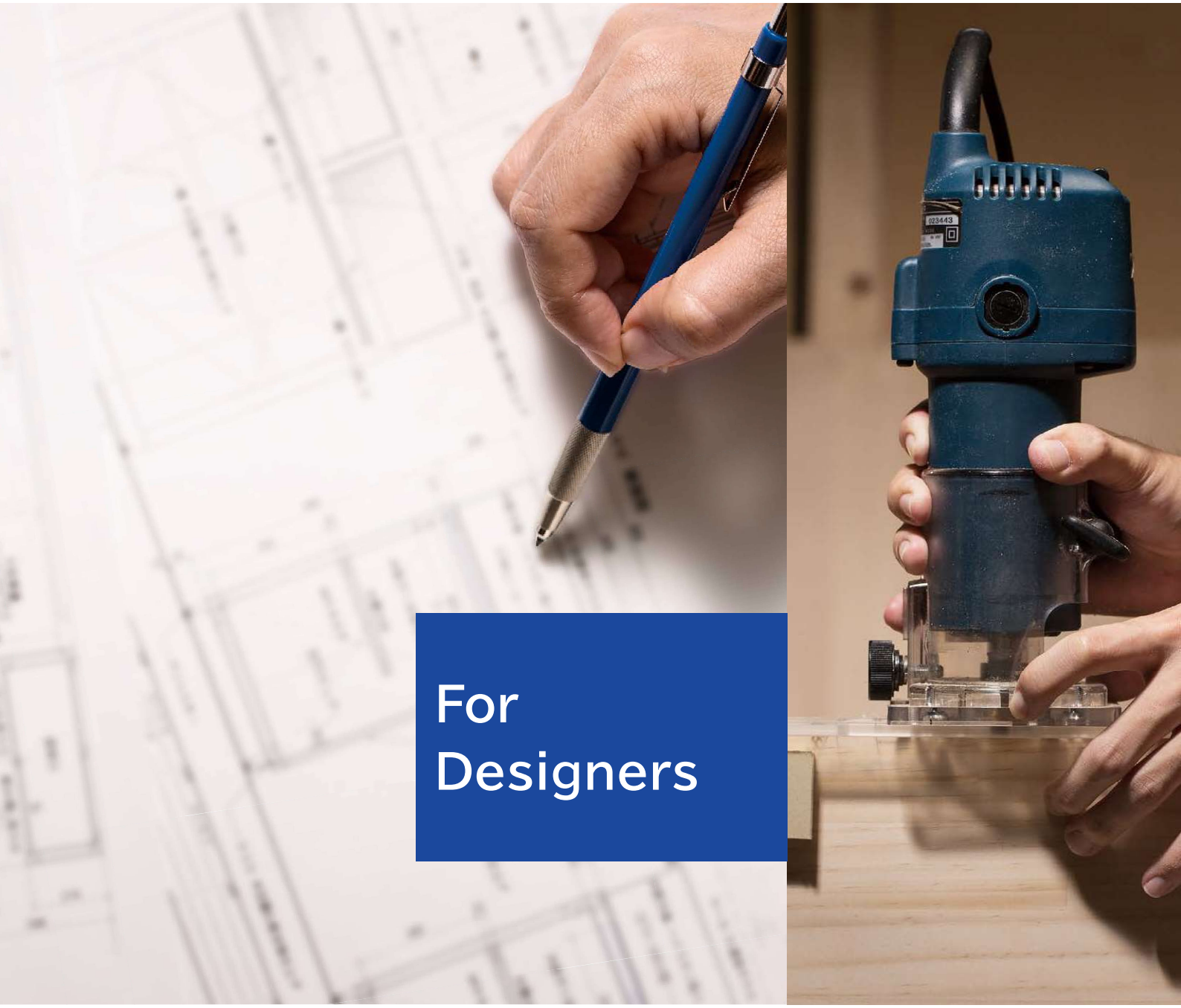
Hinges **integrated** with thin door frames





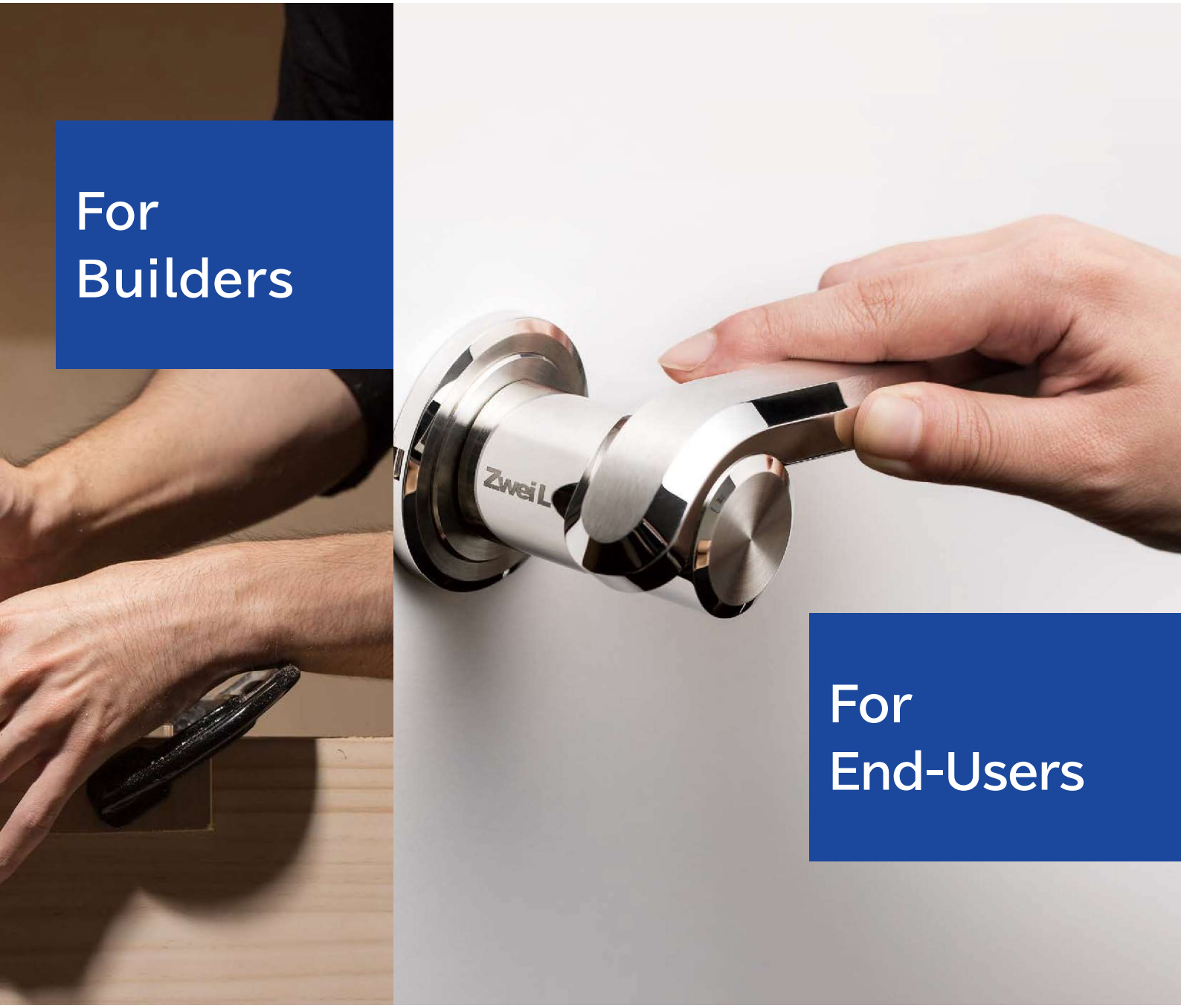
Innovation beyond expectation

Because Details Matter



For
Designers

Realising Your Vision with Diversity and Expertise



Sugatsune connects the ideas and aspirations of various people by expanding the potential of hardware and meticulously designing each product.
We meet the demands of furniture and architectural projects with unmatched functionality, quality, and service. Sugatsune' s unwavering dedication remains steadfast now and in the future.

LAMP®

High-Quality Products, Expertly Designed in Japan

September 2024

Enriching the meaning of “Manufacturing”

Product Development

The creativity and ability to create new products



Sugatsune recognises originality as a key component to creating products that are long time favourites in the market and that can also drive sales. With enhancing originality comes increasing difficulty to conceptualise and make original products. But by challenging these hurdles, a new and tailored market can be conceived.

Core Technology

A legacy of expertise



Sugatsune’s Motion Design Tec delivers specialised movements solutions such as “free stop motion,” “soft motion,” and “assist motion” for a better user experience. Cultivated over the decades, Sugatsune can provide highly original, reliable, and quality products with Motion Design Tec technologies worldwide.

Expanding Globally with Partners in Over 80 Countries

Please enquire about custom-made products!

- Finish change
- Dimension change
- Processing
- Function addition
- Specification change
- Development

Our Factory

Sugatsune has it's own exclusive factory and within its facilities is a development research centre specializing in motion design. It is here that Sugatsune's new and unique technologies emerge.



Design

Commitment to Functional Design



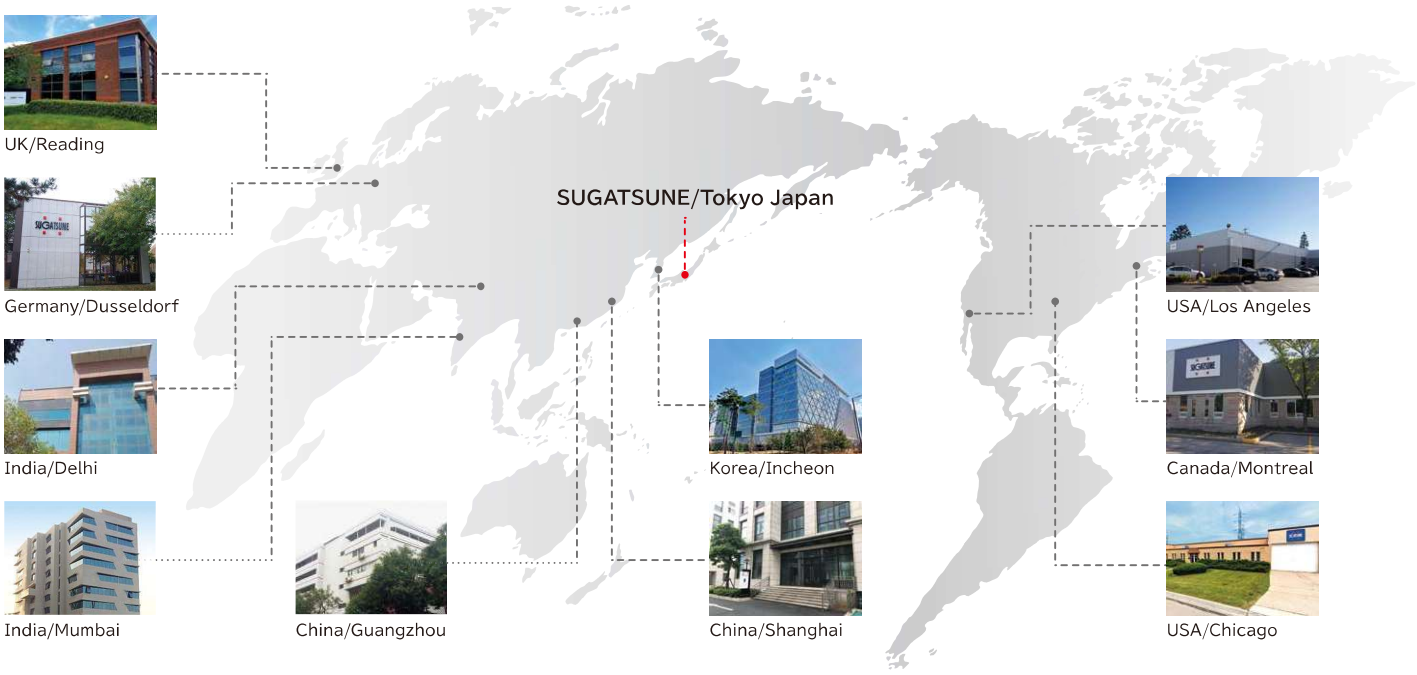
Design is no longer just about shape and colour. To deepen the meaning of "design," practicality and functionality have become integral elements in the Sugatsune manufacturing development process. Without ignoring the traditional design approach, resulting products undoubtedly possess a distinct visually appealing quality.

Product Variety

A product lineup to meet all needs



With over 30,000 products in its lineup, Sugatsune can quickly and accurately meet the needs of its customers. Moreover, support for specialised custom made items is also available.





Zwei Lichter

[Two Lights]

High precision polish, artfully sculpted shine

Flawless, distortion free lines. Stainless steel surfaces polished to the smoothness of a mirror juxtaposed seamlessly against a soft metallic satin finish creating a stately radiance.

Zwei L®



Exquisite Distortion-free Straight Lines

Beauty, lives in the finer details.

“The pursuit of the essential and the ideal” is Sugatsune Kogyo’s vow, given form in Zwei L.

With its dual gleams of light, premium interiors are enhanced with a lustrous glow.

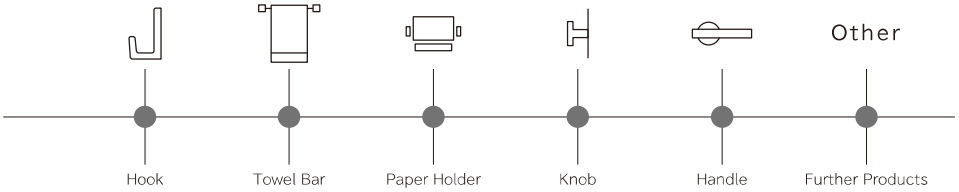








LINE UP





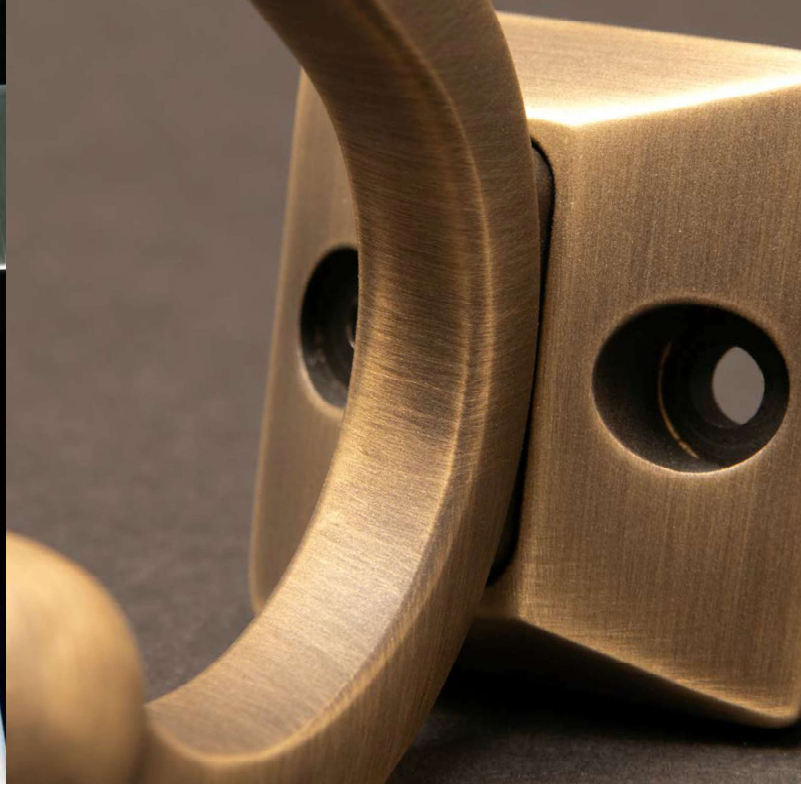
LAMP®

An original brand of Sugatsune quality

LAMP brand represents our answers to numerous manufacturing challenges and Sugatsune's commitment to quality and function is evident in the design, construction, material selection, finishing, and quality control of our products.







Confidence in our quality

Due to our “manufacturing by pursuing the ideal” strategy, which includes stringent quality control, a reliable testing system, and a dedication to exquisite finishes, you can use LAMP products with confidence for a long time. This ensures a consistent supply of goods of high calibre.

Specialised mechanisms

The components of LAMP are symbolised by their unique mechanisms, which are the outcome of our creative vision. By choosing the best mechanism for the project during the design phase, we maximise the potential of the components and produce a product of a quality that our clients can rely on.

The art of attention to detail

Design is an integral part of our hardware. With this in mind, we make no compromises with materials and finishes. Sugatsune’s dedication is demonstrated by the stunning finishes and exquisite craftsmanship of our products, which are like works of art.





MonoFlat UNISON MFU1200 Flush Sliding Door System





The MFU1200 Flush Sliding Door System by Sugatsune offers a sleek and integrated design, effortlessly blending with your wall for a concealed appearance. This system supports a maximum door mass of 70 kg and features a two-way damper, ensuring doors open and close smoothly and quietly, enhancing your space's luxurious feel.
Installation is straightforward with a minimal number of parts and no need for floor rail or groove processing. The door pushes open, eliminating the need for a handle on the front side, creating a perfectly flat surface when closed.

Seamlessly Blends with Any Interiors







No lower rail or grooving is required on the floor.

MonoFlat UNISON

Concealed Hinge The HES Series





The HES series offers superb hinges that are virtually invisible from the outside.
It discreetly enhances the beauty of doors without obstructing original designs.
Various interior styles look better with the HES hinges.
For example, the HES1F seamlessly integrates into door frames
and it enhances the overall aesthetic of interior spaces.

Enhance the Interior Space You Design







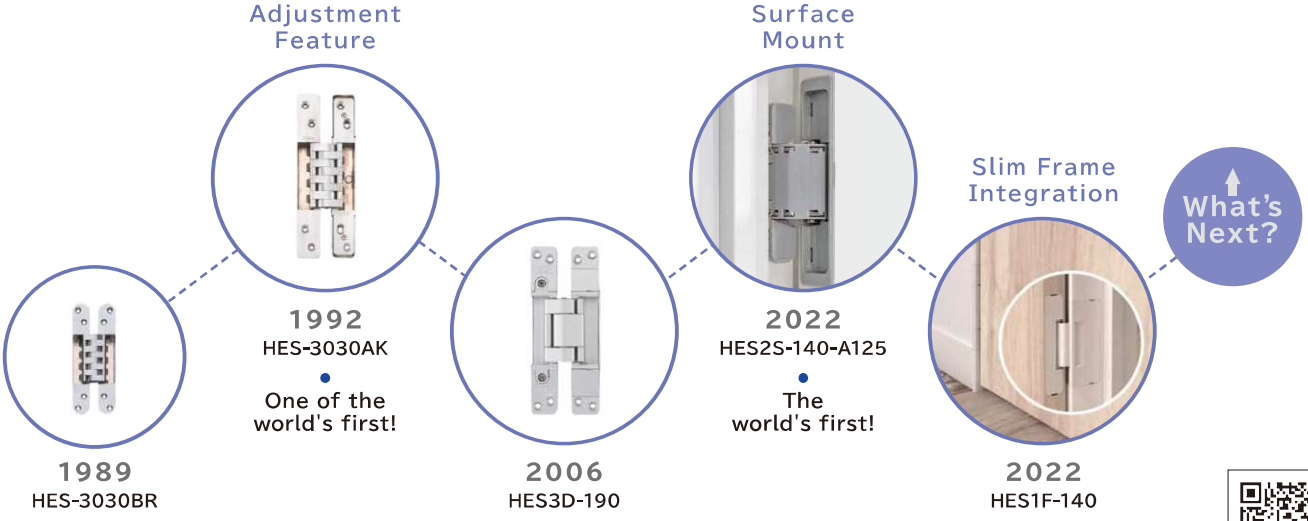
HES1F



HES2S



HES3D



HES Series Milestones at a Glance

MonoFlat LIN-X Hinge For Heavy Doors



When closed, the LIN-X Series doors seamlessly align with the wall, creating a clean and sophisticated space. This system can accommodate large doors with a width of up to 1100 mm and a weight of 90 kg. With a wide opening of 930 mm, it also allows for easy wheelchair access.

Elegant Flush Design for Compact & Functional Spaces

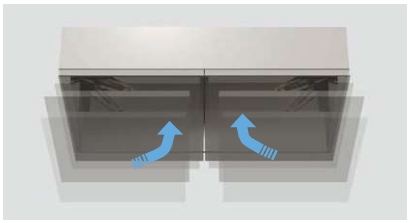
LAMP

Simple & High Quality-Design













MonoFlat LIN-X hinge

GS-G Series Glass Showcase Hardware




Silver


Gold


Black

Crafted with sleek, modern lines, this showcase hardware enhances your exhibited pieces without stealing the spotlight.



Premium Stainless Steel Solutions for Modern and Durable Design

Stainless steel products are favoured for all applications due to their modern finish, durability, and non-corrosive quality. This material is also known for being low-maintenance, making it easy to care for while offering great aesthetic appeal. Sugatsune offers a wide range of stainless steel products, from simple decorative hardware to complex functional hardware. Choose Sugatsune's quality stainless steel for a long-lasting, simple, and modern design.



SUGATSUNE HELP HUB

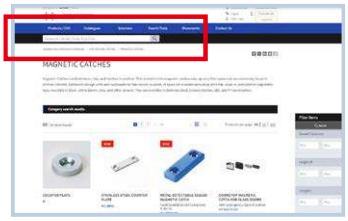
Build Better with Sugatsune!

Explore Our Comprehensive Support Resources

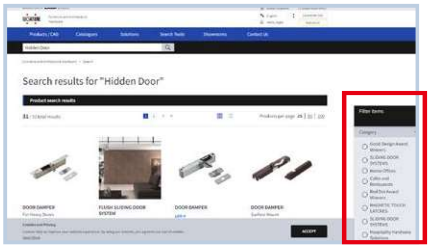


Keyword Search & Product Filters

Search for products by keyword and utilize our product filters. Access comprehensive information including our online catalogue, CAD data and instruction manuals!



Find relevant products with fuzzy search strings like "Hidden Door"!

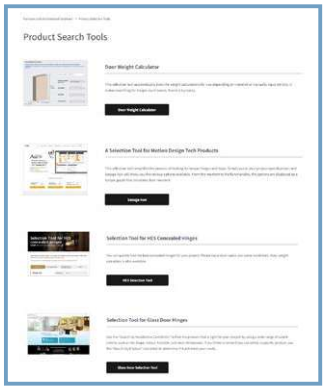


Filter by size, colour, or material as well!

Product Search Tools

The product search tools allow you to choose products tailored to your installation conditions, such as damper stays, damper hinges, torque hinges, torque stays, and more. With moment calculation and operation force simulation, you can easily identify the products that best meet your product requirements.

- Selection Tool for Motion Design Tech Products (Damper stays and hinges, Free stop hinges, etc.)
- Selection Tool for HES Concealed Hinges
- Selection Tool for Glass Door Hinges
- Selection Tool for Pocket Door System



Customer Solutions Case Studies

Our case studies introduce our products and demonstrate how they have been used to solve customer project issues.



Hardware Basics

Discover the basics of our products here. Learn about hinge and stay mechanisms, as well as the differences between various product types.



Official Sugatsune Global Channel

/@SugatsuneGlobal

Videos explain product characteristics and installation methods. Watching the product in action promotes deeper understanding.









E

ARCHITECTURAL DOOR HARDWARE

LATERAL OPENING DOOR SYSTEMS
These components stack doors flat against the neighbouring door or wall. With a minimised trajectory when opened/closed, they can also be installed in narrow spaces where swing doors cannot be used. The door stays out of the way even when open.

HES CONCEALED HINGES
Hinges are completely hidden when door is closed.

SWING DOOR SYSTEMS
These fittings for swing doors feature aluminium frame.

DOOR CLOSERS
These components are designed to gently close interior doors and prevent doors or handles from striking walls. Our range includes slim surface-mounted closers and concealed closers that become invisible when the door is closed.

STACKABLE PARTITION DOOR SYSTEMS
These partitions lie flat against the wall when closed, allowing room arrangements to be easily changed according to context and lifestyle. By stacking in the space of a single track, they save more space than conventional sliding doors.

SLIDING DOOR SYSTEMS
Smooth-motion doors also available. Choose from various specifications, including doors that stack flat when closed and soft-closing doors. A wide range of sizes is also offered.

Selection Guide for **A**rchitectural Door Hardware

Products listed in this category

Lateral **O**pening Door Syste**m**s

Closets



LIN-X800
P.528



LIN-X1000
P.530

Restaurants/Cloakrooms



LIN-X1000
P.530

Walk-in Closets/Shop Stockyard Doors, etc.



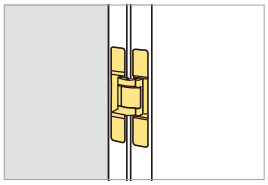
MFU1200
P.526

HES Concealed Hinges

For internal doors and interior design furniture

P.534 -

Realizes the ultimate flush storage, with shafts and hinges entirely invisible from either side when the door is closed.



Door Da**m**pers/Door Stoppers



LDD-S P.566



LDC-N2 Series P.572



ZL-1801 P.576

Swing Door Syste**m**s



AF-25D P.560



ZL-1601 P.562

Stackable Partition Door Syste**m**s



FDPN40 P.584 -

Sliding Door Syste**m**s

Sliding Doors



SRS

P.774

Auto**m**atic-Close Sliding Doors



LM-80

P.770

Interlocking Sliding Doors



SRW

P.775

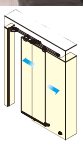
Alu**m**iniu**m** Sliding Doors



FD80-AFH

P.746

Lateral Opening Door Systems

Door Weight (per door)	Lateral Opening Doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Cycle Test	Features
Max. 40 kg	LAMP MONOFLAT LIN-X HINGE LIN-X800					P.528
		750 - 850	1600 - 2400 (LIN-X800) 1600 - 2980 (LIN-X800H)	24 - 40	Passed Private 40K Cycle Test	Soft Close
Max. 70 kg	LAMP FLUSH SLIDING DOOR SYSTEM MFU1200 Two-way Damper NEW					P.526
	 Flat door fittings with which the door slides when pushed inward.  Slide Type *See product pages for detailed drawings.	800 - 1200	Max. 2700	30 - 40	Passed Private 100K Cycle Test	Soft Close
Max. 90 kg	LAMP MONOFLAT LIN-X HINGE (HEAVY DUTY) LIN-X1000					P.530
		750 - 1100	2400 - 2980	24 - 40	Passed Private 100K Cycle Test	Soft Close

HES Concealed Hinges

Product	Door Width (mm)	Door Height (mm)	Door Thickness (mm)
	SLIM FRAME HINGE HES1F-140 NEW P.540		
	Max. 900	Max. 2700	Min. 36
	SURFACE MOUNT CONCEALED HINGE HES2S-140-A125 NEW P.545		
	Max. 900	Max. 2700	Min. 38
	SURFACE MOUNT CONCEALED HINGE HES2S-150-A110 NEW P.546		
	Max. 900	Max. 2700	Min. 35
	3-WAY ADJUSTABLE CONCEALED HINGE HES3D-120 P.547		
	Max. 900	Max. 2400	Min. 29
	3-WAY ADJUSTABLE CONCEALED HINGE HES3D-120-A100 NEW P.548		
	Max. 900	Max. 2400	Min. 29
	3-WAY ADJUSTABLE CONCEALED HINGE HES3D-H120-36 Centre Door Mortise NEW P.550		
	Max. 900	Max. 2700	Min. 34

Product	Door Width (mm)	Door Height (mm)	Door Thickness (mm)
	3-WAY ADJUSTABLE CONCEALED HINGE HES3D-V135LGR P.551		
	Max. 900	Max. 2400	Min. 30
	3-WAY ADJUSTABLE CONCEALED HINGE HES3D-E160 P.552		
	Max. 900	Max. 2400	Min. 36
	STAINLESS STEEL CONCEALED HINGE HGS3D-S160SH NEW P.553		
	Max. 900	Max. 2400	Min. 36
	3-WAY ADJUSTABLE CONCEALED HINGE HES3D-E190 P.554		
	Max. 900	Max. 2400	Min. 38
	3-WAY ADJUSTABLE CONCEALED HINGE HES3D-W190 Wide Throw NEW P.556		
	Max. 915	Max. 2440	Min. 42
	CONCEALED HINGE HES-3038BK P.559		
	Max. 900	Max. 2000	Min. 36

Swing Door Systems


AF-25D P.560


ZL-1601 P.562


ZL-1702 P.562

Door Dampers



DC-200 P.564


LDD-S P.566


LDD-V P.568


LDD-V100 P.570


LDC-N2 Series P.572

Door Stoppers

Products with the GLASS mark can be used as stoppers for glass doors.


ZL-1801 P.576


ZL-1802 P.576


ZL-1803 P.577


HT-32 P.577

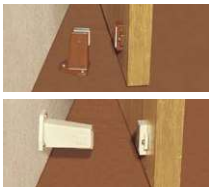

HT-C P.578


HT-MSG62 P.579


HT-MSG72-ER P.580


HT-G70 P.581


DOOR STOPPER M P.581


DOOR STOPPER K P.582


DJ-175 P.582


CS P.583

Stackable Partition Door Systems

Flat Partition Sliding Doors

Door Weight (per door)

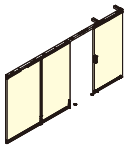
Max. 40 kg



Door Size			Number of Doors	Upper Track Mounting Dimensions	Load Method	Bottom Track	With Height Adjustment Function
Door Width (mm)	Door Height (mm)	Door Thickness (mm)					

LAMP STACKABLE PARTITION DOOR SYSTEM FDPN40

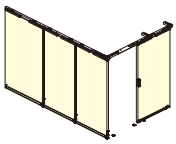
FDPN40P1D Parallel Stacking Single Partition — P.586



Affordable smooth motion with newly designed rollers and tracks. Panels stack in parallel.

Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Number of Doors	Upper Track Mounting Dimensions	Load Method	Bottom Track	With Height Adjustment Function
500 - 1000 (stacking panels/ sliding doors) 500 - 1300 (sliding panels)	Max. 2500	34 - 40	3 to 6 pcs	Surface	Top hung	None	●

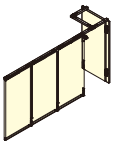
FDPN40P2D Parallel Stacking Double Partition — P.588



Corner partition sliding door fittings enabling smooth motion. Panels stack in parallel.

Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Number of Doors	Upper Track Mounting Dimensions	Load Method	Bottom Track	With Height Adjustment Function
500 - 900 (stacking panels/ sliding doors) 500 - 1100 (sliding panels)	Max. 2500	34 - 40	3 to 6 pcs	Surface	Top hung	None	●

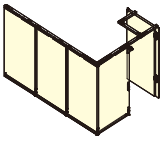
FDPN40V1D Perpendicular Stacking Single Partition — P.590



Affordable smooth motion with newly designed rollers and tracks. Panels stack in perpendicular when stored.

Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Number of Doors	Upper Track Mounting Dimensions	Load Method	Bottom Track	With Height Adjustment Function
Max. 900 (sliding doors) 500 - 900 (stacking panels)	Max. 2500	34 - 40	3 to 6 pcs	Surface	Top hung	None	●

FDPN40V2D Perpendicular Stacking Double Partition — P.592



Corner partition sliding door fittings enabling smooth motion. Panels stack in perpendicular when stored.

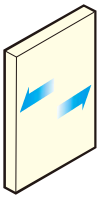
Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Number of Doors	Upper Track Mounting Dimensions	Load Method	Bottom Track	With Height Adjustment Function
Max. 900 (sliding doors) 500 - 900 (stacking panels)	Max. 2500	34 - 40	3 to 6 pcs	Surface	Top hung	None	●

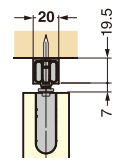
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Max. 25 kg

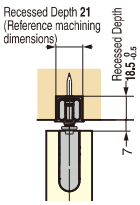
Door Weight (per door)	Sliding Doors	Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications

LAMP FD25SP Two-way Damper / Recessed Upper Roller NEW — P.618





Finish: Silver, Amber, White

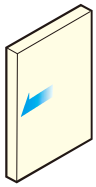


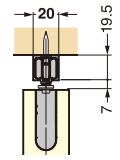
Finish: Silver, Amber, White

Single Sliding
Overlapping
Opposite Opening
Interlocking

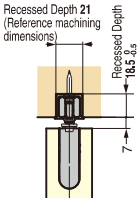
464 - 1000 | Max. 2400 | Min. 24 | Two-Way Soft Close | Residences

LAMP FD25SP One-way Damper / Recessed Upper Roller NEW — P.620





Finish: Silver, Amber, White

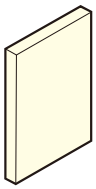


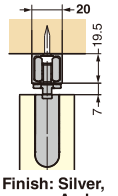
Finish: Silver, Amber, White

Single Sliding
Overlapping
Opposite Opening
Interlocking

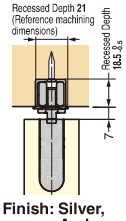
410 - 1000 | Max. 2400 | Min. 24 | Single Soft Close | Residences

LAMP FD25SP Without Damper / Recessed Upper Roller NEW — P.622





Finish: Silver, Amber, White

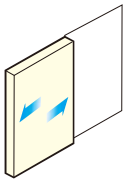


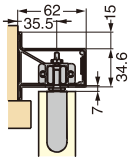
Finish: Silver, Amber, White

Single Sliding
Overlapping
Opposite Opening
Interlocking

Max. 1000 | Max. 2400 | Min. 24 | No Closer | Residences

LAMP FD25SP Two-way Damper / Outset / Recessed Upper Roller NEW — P.624





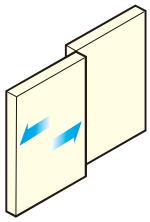
Finish: Silver, Amber, White

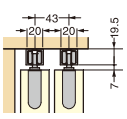
–

Single Sliding
Overlapping
Opposite Opening
Interlocking

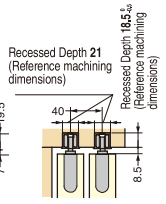
464 - 1000 | Max. 2400 | 30 - 36 | Two-Way Soft Close | Residences

LAMP FD25SP Two-way Damper / Synchronized 2-door / Recessed Upper Roller NEW — P.626





Finish: Silver, Amber, White

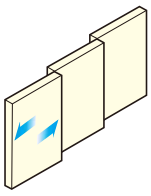


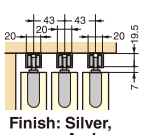
Finish: Silver, Amber, White

Single Sliding
Overlapping
Opposite Opening
Interlocking

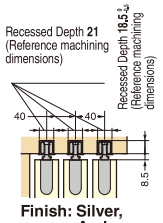
464 - 1000 | Max. 2400 | 30 - 38 | Two-Way Soft Close | Residences

LAMP FD25SP Two-way Damper / Recessed Upper Roller / 3 Synchronised Doors NEW — P.628





Finish: Silver, Amber, White



Finish: Silver, Amber, White

Single Sliding
Overlapping
Opposite Opening
Interlocking

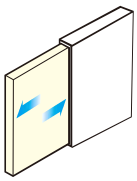
464 - 1000 | Max. 2400 | 30 - 38 | Two-Way Soft Close | Residences

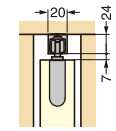
Sliding Doors

Door Weight (per door)	Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications

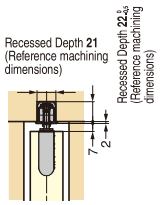
Max. 25 kg

LAMP FD25SP Pocket Door / Two-way Damper / Recessed Upper Roller NEW — P.630





Finish: Silver, Amber, White



Finish: Silver, Amber, White

Single Sliding / Overlapping / Opposite Opening / Interlocking

Door Width: 464 - 1000

Door Height: Max. 2400

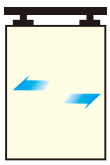
Door Thickness: Min. 30

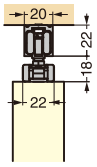
Soft Close: Two-Way Soft Close

Applications: Residences

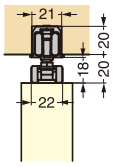
Max. 27 kg

LAMP FD27EV Two-Way Damper / Surface Mounted Roller NEW — P.640





Finish: Silver, Amber, White, Black



Finish: Silver, Amber, White, Black

Single Sliding / Overlapping / Opposite Opening / Interlocking

Door Width: For Door Height Max. 2400: 480 - 1200; For Door Height 2401 - 2700: 700 - 1200

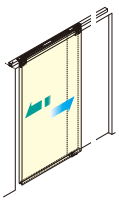
Door Height: Max. 2700

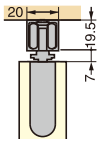
Door Thickness: Min. 22

Soft Close: Two-Way Soft Close

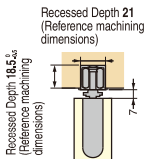
Applications: Hotels, Nursing homes, Shops, Residences

LAMP FD30SP Two-way Damper / Recessed Upper Roller NEW — P.644





Finish: Silver, Amber, White



Finish: Silver, Amber, White

Single Sliding / Overlapping / Opposite Opening / Interlocking

Door Width: 590 - 1000

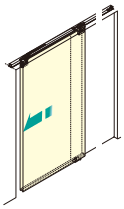
Door Height: Max. 2400

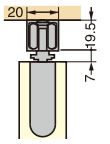
Door Thickness: Min. 24

Soft Close: Two-Way Soft Close

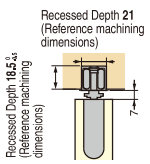
Applications: Residences

LAMP FD30SP One-way Damper / Recessed Upper Roller NEW — P.646





Finish: Silver, Amber, White



Finish: Silver, Amber, White

Single Sliding / Overlapping / Opposite Opening / Interlocking

Door Width: 510 - 1000

Door Height: Max. 2400

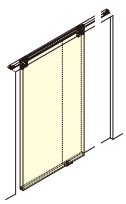
Door Thickness: Min. 24

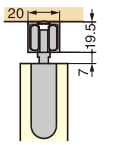
Soft Close: Single Soft Close

Applications: Residences

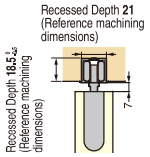
Max. 30 kg

LAMP FD30SP Without Damper / Recessed Upper Roller NEW — P.648





Finish: Silver, Amber, White



Finish: Silver, Amber, White

Single Sliding / Overlapping / Opposite Opening / Interlocking

Door Width: 510 - 1000

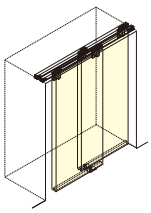
Door Height: Max. 2400

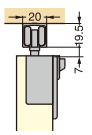
Door Thickness: Min. 24

Soft Close: –

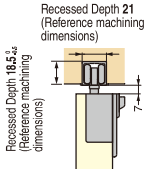
Applications: Residences

LAMP FD30EX Two-way Damper / Side-Mount Roller Standard Sliding NEW — P.650





Finish: Silver, Amber, White



Finish: Silver, Amber, White

Single Sliding / Overlapping / Opposite Opening / Interlocking

Door Width: Max. 1000

Door Height: Max. 2400

Door Thickness: Min. 28

Soft Close: –

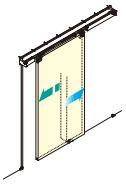
Applications: Residences

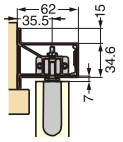
Sliding Doors

Door Weight (per door)	Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications

Max. 30 kg

LAMP FD30SP Two-way Damper / Outset / Recessed Upper Roller NEW — P.652





Finish: Silver, Amber, White

–

Single Sliding
Overlapping
Opposite Opening
Interlocking

590 - 1000

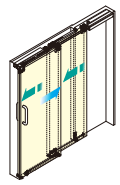
Max. 2400

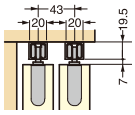
30 - 36

Two-Way Soft Close

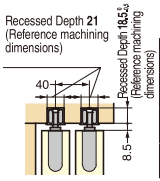
Residences

LAMP FD30SP Two-way Damper / Synchronized 2-door / Recessed Upper Roller NEW — P.654





Finish: Silver, Amber, White



Finish: Silver, Amber, White

Single Sliding
?Overlapping
Opposite Opening
Interlocking

Main Door: 590 - 1000 Secondary Door: 510 - 1000

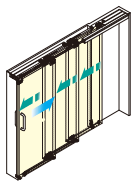
Max. 2400

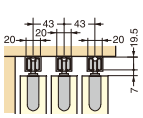
30 - 38

Two-Way Soft Close + Single Soft Close

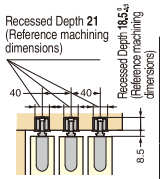
Residences

LAMP FD30SP Two-way Damper / Synchronized 3-door / Recessed Upper Roller NEW — P.656





Finish: Silver, Amber, White



Finish: Silver, Amber, White

Single Sliding
Overlapping
Opposite Opening
Interlocking

Main Door: 590 - 1000 Secondary Door, Tertiary Door: 510 - 1000

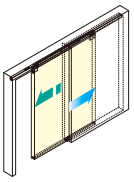
Max. 2400

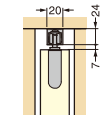
30 - 38

Two-Way Soft Close + Single Soft Close

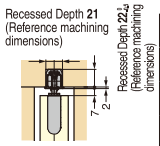
Residences

LAMP FD30SP Pocket Door / Two-way Damper / Recessed Upper Roller NEW — P.658





Finish: Silver, Amber, White



Finish: Silver, Amber, White

Single Sliding
Overlapping
Opposite Opening
Interlocking

590 - 1000

Max. 2400

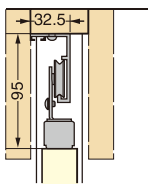
Min. 30

Two-Way Soft Close

Residences

SELF CLOSING SLIDE DOOR SYSTEM SRS — P.774





With automatic close function making it easy for children and the elderly to open and close the door as well.

Single Sliding
Overlapping
Opposite Opening
Other

810 or 860

–

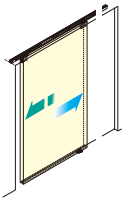
28.4 - 36

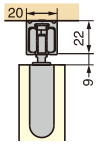
–

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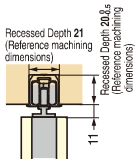
Max. 35 kg

LAMP FD35SP Two-way Damper / Recessed Upper Roller NEW — P.672





Finish: Silver, Amber, White, Black



Finish: Silver, Amber, White, Black

Single Sliding
Overlapping
Opposite Opening
Interlocking

For Door Height Max. 2400: 590 - 1200 For Door Height 2401 - 2700: 700 - 1200

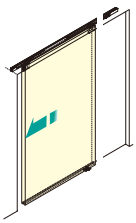
Max. 2700

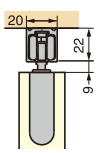
Min. 24

Two-Way Soft Close

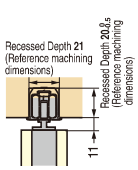
Hotels Nursing homes Shops Residences

LAMP FD35SP One-way Damper / Recessed Upper Roller NEW — P.674





Finish: Silver, Amber, White, Black



Finish: Silver, Amber, White, Black

Single Sliding
Overlapping
Opposite Opening
Interlocking

For Door Height Max. 2400: 520 - 1200 For Door Height 2401 - 2700: 700 - 1200

Max. 2700

Min. 24

Single Soft Close

Hotels Nursing homes Shops Residences

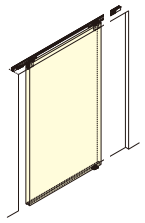
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

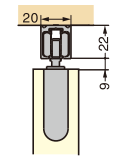
Sliding Doors

Door Weight (per door)	Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications

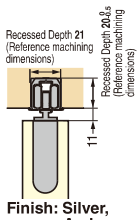
Max. 35 kg

LAMP FD35SP Without Damper / Recessed Upper Roller NEW — P.676





Finish: Silver, Amber, White



Finish: Silver, Amber, White

Single Sliding / Overlapping / ~~Opposite Opening~~ / ~~Interlocking~~

For Door Height max. 2400: Max. 1200
For Door Height 2401 - 2700: 700 - 1200

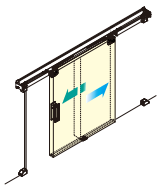
Max. 2700

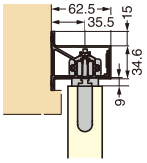
Min. 24

–

Hotels, Nursing homes, Shops, Residences

LAMP FD35SP Two-way Damper / Outset / Recessed Upper Roller NEW — P.678





Finish: Silver, Amber, White

–

Single Sliding / ~~Overlapping~~ / ~~Opposite Opening~~ / ~~Interlocking~~

590 - 1200

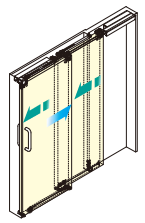
Max. 2400

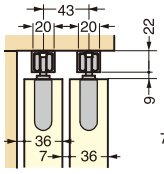
30 - 36

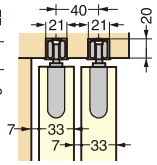
Two-Way Soft Close

Hotels, Nursing homes, Shops, Residences

LAMP FD35SP Two-way Damper / Synchronized 2-door / Recessed Upper Roller NEW — P.680







~~Single Sliding~~ / ~~Overlapping~~ / ~~Opposite Opening~~ / Interlocking

590 - 1000 (using Two-Way Soft Close)

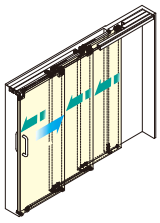
Max. 2400

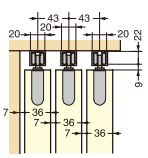
30 - 38

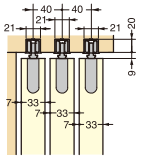
Two-Way Soft Close

Hotels, Nursing homes, Shops, Residences

LAMP FD35SP Two-way Damper / Synchronized 3-door / Recessed Upper Roller NEW — P.682







~~Single Sliding~~ / ~~Overlapping~~ / ~~Opposite Opening~~ / Interlocking

590 - 1000 (using Two-Way Soft Close)

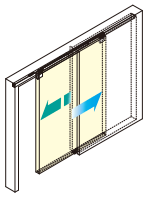
Max. 2400

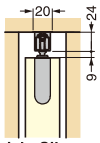
30 - 38

Two-Way Soft Close

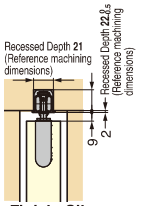
Hotels, Nursing homes, Shops, Residences

LAMP FD35SP Pocket Door / Two-way Damper / Recessed Upper Roller NEW — P.684





Finish: Silver, Amber, White



Finish: Silver, Amber, White

~~Single Sliding~~ / ~~Overlapping~~ / ~~Opposite Opening~~ / ~~Interlocking~~

For Door Height Max. 2400: 590 - 1200
For Door Height 2401 - 2700: 700 - 1200

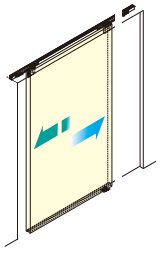
Max. 2700

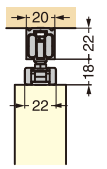
Min. 30

Two-Way Soft Close

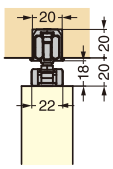
Hotels, Nursing homes, Shops, Residences

LAMP FD35EV Two-Way Damper / Surface Mounted Roller NEW — P.686





Finish: Silver, Amber, White



Finish: Silver, Amber, White

~~Single Sliding~~ / ~~Overlapping~~ / ~~Opposite Opening~~ / ~~Interlocking~~

For Door Height Max. 2400: 590 - 1200
For Door Height 2401 - 2700: 700 - 1200

Max. 2700

Min. 22

Two-Way Soft Close

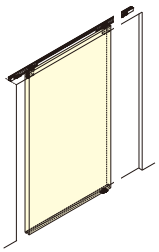
Hotels, Nursing homes, Shops, Residences

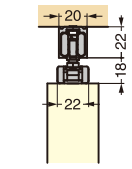
Sliding Doors

Door Weight (per door)	Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications

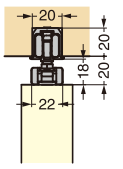
LAMP FD35EV Surface Mounted Roller NEW — P.688

Max. 35 kg





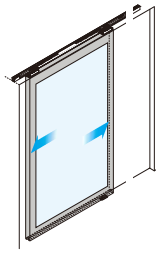
Finish: Silver, Amber, White, Black

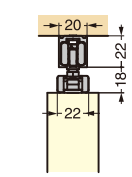


Finish: Silver, Amber, White, Black

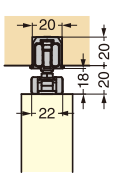
Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications
Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2400: Min. 1200 For Door Height 2401 - 2700: 700 - 1200	Max. 2700	Min. 22	–	Hotels, Nursing homes, Shops, Residences

LAMP FD35EVS Moisture Resistant/Two-way Damper/Surface Mounted Upper Roller NEW — P.700





Finish: Silver, Amber, White, Black

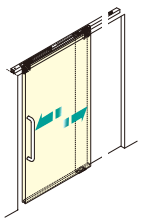


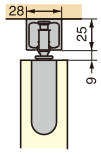
Finish: Silver, Amber, White, Black

Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications
Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2400: 590 - 1200 For Door Height 2401 - 2700: 700 - 1200	Max. 2700	Min. 22	Two-Way Soft Close	Hotels, Nursing homes, Shops, Residences

Max. 50 kg

LAMP FD50SP Two-way Damper / Recessed Upper Roller NEW — P.704

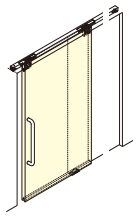


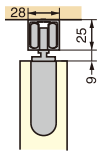


Finish: Silver, Amber, White

Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications
Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2400: 680 - 1500 For Door Height 2401 - 2700: 800 - 1500	Max. 2700	Min. 24	Two-Way Soft Close	Hotels, Nursing homes, Shops, Residences

LAMP FD50SP Without Damper / Recessed Upper Roller NEW — P.706

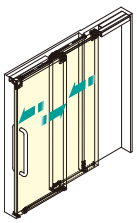


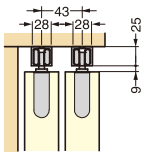


Finish: Silver, Amber, White

Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications
Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2400: Max. 1500 For Door Height 2401 - 2700: 800 - 1500	Max. 2700	Min. 24	–	Hotels, Nursing homes, Shops, Residences

LAMP FD50SP Two-way Damper / Synchronized 2-door / Recessed Upper Roller NEW — P.708

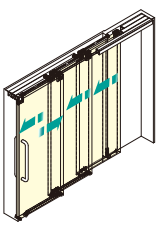


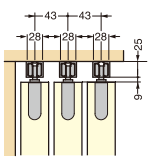


Finish: Silver, Amber, White

Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications
Single Sliding Overlapping Opposite Opening Interlocking	680 - 1200 (2 door panels common)	Max. 2400	30 - 38	Two-Way Soft Close *Doors with 2 or more panels have Soft Close only for leading edge	Hotels, Nursing homes, Shops, Residences

LAMP FD50SP Two-way Damper / Synchronized 3-door / Recessed Upper Roller NEW — P.710





Finish: Silver, Amber, White

Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications
Single Sliding Overlapping Opposite Opening Interlocking	680 - 1200 (3 door panels common)	Max. 2400	30 - 38	Two-Way Soft Close *Doors with 2 or more panels have Soft Close only for leading edge	Hotels, Nursing homes, Shops, Residences

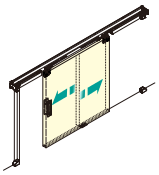
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

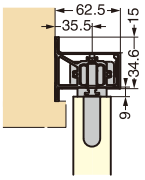
Sliding Doors

Door Weight (per door)	Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications

Max. 50 kg

LAMP FD50SP Two-way Damper / Outset / Recessed Upper Roller NEW — P.712

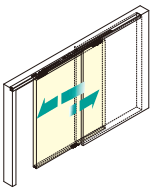


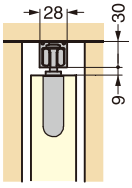


Finish: Silver, Amber, White

Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	680 - 1500	Max. 2400	30 - 36	Two-Way Soft Close	Hotels, Nursing homes, Shops, Residences

LAMP FD50SP Pocket Door / Two-way Damper / Recessed Upper Roller NEW — P.714

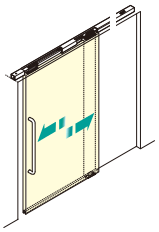


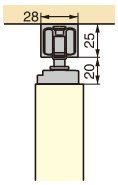


Finish: Silver, Amber, White

Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2400: 680 - 1500 For Door Height 2401 - 2700: 800 - 1500	Max. 2700	Min. 30	Two-Way Soft Close	Hotels, Nursing homes, Shops, Residences

LAMP FD50 Two-Way Damper / Surface Mounted Roller NEW — P.716

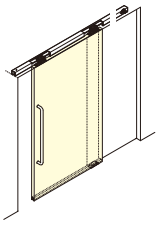


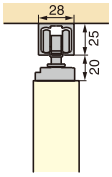


Finish: Silver, Amber, White

Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2400: 774 - 1500 For Door Height 2401 - 2700: 800 - 1500	Max. 2700	Min. 30	Two-Way Soft Close	Hotels, Nursing homes, Shops, Residences

LAMP FD50 Without Damper / Surface Mounted Roller NEW — P.718

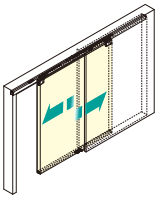


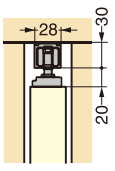


Finish: Silver, Amber, White

Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2400: Max. 1500 For Door Height 2401 - 2700: 800 - 1500	Max. 2700	Min. 30	–	Hotels, Nursing homes, Shops, Residences

LAMP FD50 Pocket Door / Two-way Damper / Surface Mounted Upper Roller NEW — P.720





Finish: Silver, Amber, White

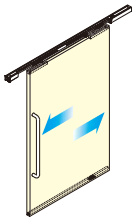
Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2400: 774 - 1500 For Door Height 2401 - 2700: 800 - 1500	Max. 2700	Min. 30	Two-Way Soft Close	Hotels, Nursing homes, Shops, Residences

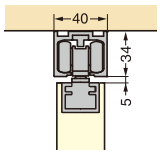
Sliding Doors

Max. 80 kg

Door Weight (per door)	Supported doors	Door Size: Door Width (mm)	Door Size: Door Height (mm)	Door Size: Door Thickness (mm)	Soft Close	Applications

LAMP FD80 Two-Way Damper / Recessed Upper Roller — P.730

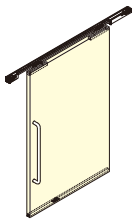


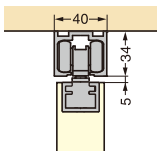


Finish: Silver, Amber

Door Weight	Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2500: 784 - 1500 For Door Height 2501 - 2700: 850 - 1500	Max. 2700	Min. 34	Two-Way Soft Close	Hotels, Nursing homes, Shops, Residences

LAMP FD80 Recessed Upper Roller — P.732

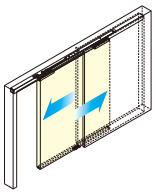


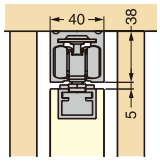


Finish: Silver, Amber

Door Weight	Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2500: Max. 1500 For Door Height 2501 - 2700: 850 - 1500	Max. 2700	Min. 34	–	Hotels, Nursing homes, Shops, Residences

LAMP FD80 Pocket Door / Two-Way Damper / Recessed Upper Roller — P.734

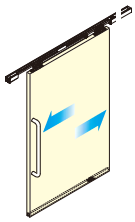


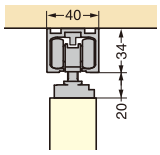


Finish: Silver, Amber, White

Door Weight	Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2500: 784 - 1500 For Door Height 2501 - 2700: 850 - 1500	Max. 2700	Min. 34	Two-Way Soft Close	Hotels, Nursing homes, Shops, Residences

LAMP FD80 Two-Way Damper / Surface Mounted Roller — P.736

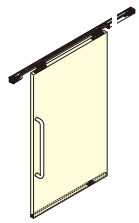


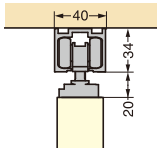


Finish: Silver, Amber

Door Weight	Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2500: 784 - 1500 For Door Height 2501 - 2700: 850 - 1500	Max. 2700	Min. 30	Two-Way Soft Close	Hotels, Nursing homes, Shops, Residences

LAMP FD80 Surface Mounted Roller — P.738

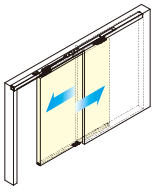


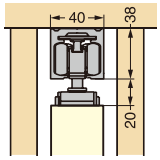


Finish: Silver, Amber

Door Weight	Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	For Door Height Max. 2500: Max. 1500 For Door Height 2501 - 2700: 850 - 1500	Max. 2700	Min. 30	–	Hotels, Nursing homes, Shops, Residences

LAMP FD80 Pocket Door / Two-Way Damper / Surface Mounted Roller — P.740



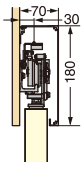


Finish: Silver, Amber, White

Door Weight	Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Interlocking	For Door Height 2500 mm: 784 - 1500 mm For Door Height 2501 - 2700 mm: 850 - 1500 mm	Max. 2700 mm	Min. 30 mm	Two-Way Soft Close	Hotels, Nursing homes, Shops, Residences

LAMP SELF CLOSING SLIDE DOOR SYSTEM LM-80 — P.770





Ideal for hospitals, multi-purpose bathrooms, etc. Door closes automatically and gradually without electricity or other motive power.

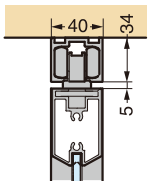
Door Weight	Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close	Applications
–	Single Sliding Overlapping Opposite Opening Other	700 - 1200	–	28 - 40 (Wooden Doors)	Soft Close	–

Sliding Doors (Glass Doors)

Door Weight (per door) | Supported doors | Door Size: Door Width (mm) / Door Height (mm) / Door Thickness (mm) | Soft Close

LAMP FD80-AFH Two-way Damper / Recessed Upper Roller NEW — P.747



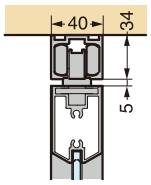


Recessed upper roller Two-Way Soft Close specifications. Black frames and white upper tracks are now available.

Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close
Single Sliding, Overlapping	748 - 1500	Max. 2700	5, 6	Soft Close
Opposite Opening, Other				

LAMP FD80-AFH Recessed Upper Roller NEW — P.750



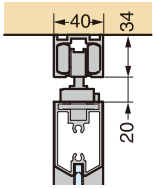


Recessed upper roller specifications. Black frames and white upper tracks are now available.

Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close
Single Sliding, Overlapping	Max. 1500	Max. 2700	5, 6	–
Opposite Opening, Other				

LAMP FD80-AFH Surface Mounted Upper Roller Two-Way Damper NEW — P.754



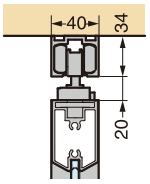


Upper roller surface mount Two-Way Soft Close specifications. Black frames and white upper tracks are now available.

Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close
Single Sliding, Overlapping	804 - 1500	Max. 2700	5, 6	Soft Close
Opposite Opening, Other				

LAMP FD80-AFH Surface Mounted Upper Roller NEW — P.758



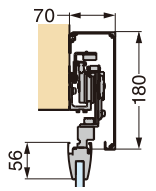


Upper roller surface mount specifications. Black frames and white upper tracks are now available.

Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close
Single Sliding, Overlapping	Max. 1500	Max. 2700	5, 6	–
Opposite Opening, Other				

LAMP SELF CLOSING SLIDE DOOR SYSTEM LM-80G — P.772





Door closes automatically and gradually without electricity or other motive power.

Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close
Single Sliding	700 - 1200	–	8 - 12	Soft Close
Overlapping, Opposite Opening, Other				

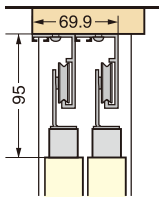
Max. 80 kg

Interlocking Sliding Doors

Door Weight (per door) | Supported doors | Door Size: Door Width (mm) / Door Height (mm) / Door Thickness (mm) | Soft Close

SELF CLOSING SLIDE DOOR SYSTEM SRW — P.775





With automatic close function helpful for wheelchair users.

Supported doors	Door Width (mm)	Door Height (mm)	Door Thickness (mm)	Soft Close
Single Sliding, Overlapping, Opposite Opening	550	–	28.4 - 30	–
Other				

Max. 30 kg

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

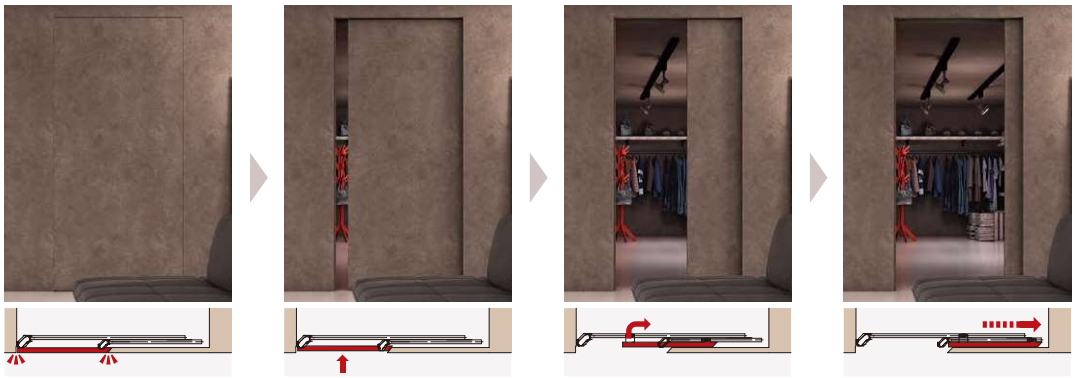
LAMP FLUSH SLIDING DOOR SYSTEM MFU1200

Flush door system with two-way damper, for doors up to 70kg.



Passed Private 100K Cycle Test

Door movement



Flush | Push | Slide | Soft open

Watch in Action

Feature

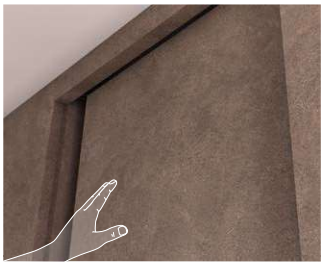
Features

Flush close



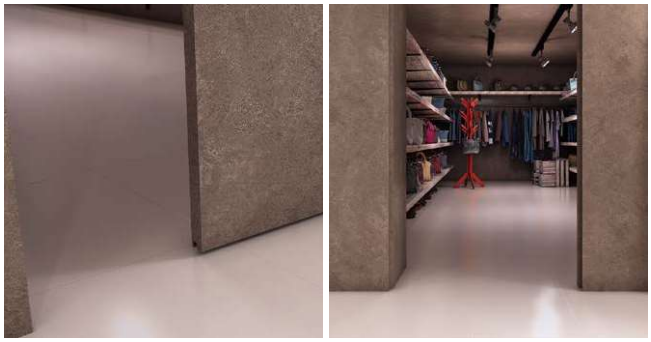
The flat sliding door hardware integrates into the wall. Adjust the wall design to completely hide the door.

Handleless



Door can be pushed open and no handle is necessary on the door front.

No bottom rail or floor groove is necessary



This maintains a clean and seamless floor appearance.

Door Stays Compact When Opened

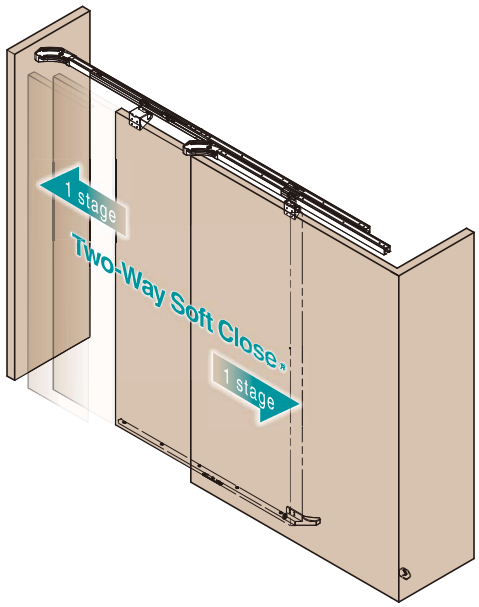


The door slides neatly behind the wall, staying out of the way when opened. It retracts close to the wall, minimising any outward protrusion.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Key Improvements

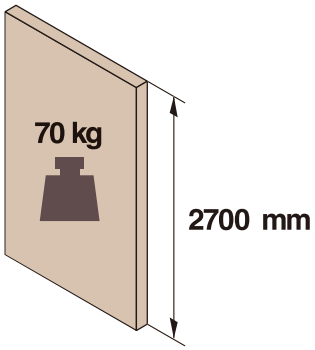
Two-way Soft Close type mounted, creating quiet, gradual opening and closing with a sense of class



1 stage
1 stage

- Soft closing starts at approx. 100 mm, ensuring the door closes securely.
- The door opens effortlessly.

Door height Max. 2700 mm
Door weight Max. 70 kg



History of MonoFlat Unison Improvements

June 2008	Launch
April 2011	Quieter/easier operation
June 2012	MonoFlat Unison Neo launch
May 2021	Two-Way Soft Close specifications launch

	MFU1200-40	MFU1200-70
Width	800 - 1200 mm	
Height	Max. 2700 mm	
Thickness	30 - 40 mm	
Weight	20 - 40 kg	40 - 70 kg
Adjustment	Depth: ±4 mm	
	Vertical: ±4 mm	

[Caution]

- Due to the lower curve rail protrudes from the door mounting surface, please be careful not to trip on it when opening and closing the door. Also, affix the attached caution sticker.
- Installation positions and door workings have changed from the MFU-1000.

  Please make sure to download the latest installation instructions.

Order combinations

Combine order content in accordance with the specifications.

Bracket Set
Select one

Sliding direction	Item Code	Item Name
Left opening	250-047-832	MFU1200-L-BL
Right opening	250-047-833	MFU1200-R-BL

+

Closer Set
Select one

Hanging door weight	Item Code	Item Name
Light duty (door weight 20 to 40 kg)	250-047-834	MFU1200-40DSC-BL
Heavy-duty (door weight 40 to 70 kg)	250-047-835	MFU1200-70DSC-BL

+

Rail Set

Item Code	Item Name
250-047-836	MFU1200-RS-BL

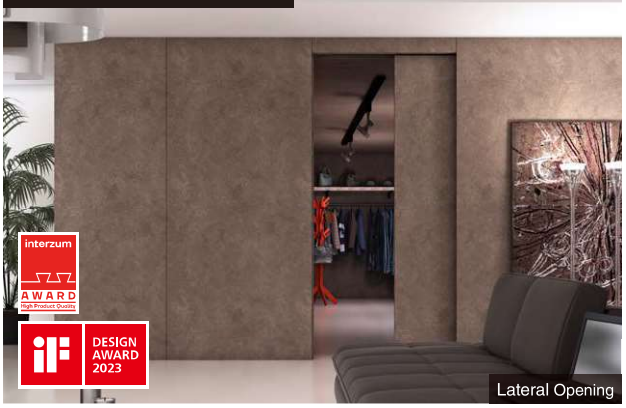
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP FLUSH SLIDING DOOR SYSTEM MFU1200 Two-way Damper NEW

Latest Info

MonoFlat UNISON

Passed Private 100K Cycle Test





	MFU1200-40	MFU1200-70
Width	800 - 1200 mm	
Height	Max. 2700 mm	
Thickness	30 - 40 mm	
Weight	20 - 40 kg	40 - 70 kg
Adjustment	Depth : ± 4 mm	
	Height : ± 4 mm	

Flush door system with 2-way damper, for doors up to 70kg.

- Doors will be flush with walls when closed.
- Door can be pushed open and no handle is necessary on the door front.
- The two-way damper allows doors to be both opened and closed softly.
- Limited number of parts for easy installation.
- Improved adjustments for a perfect result.
- No bottom rail or floor groove is necessary.

INSTRUCTION

Application

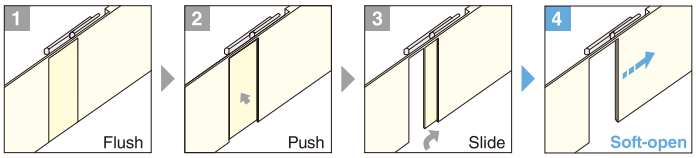
- Walk-in closets, hidden rooms, shop storage space.

Remarks

- MFU1200-R opens from right to left. MFU1200-L opens from left to right.
- The bottom bracket protrude from the door bottom.
  Make sure to leave enough clearance when opening the door.
- Installation positions and door workings have changed from the MFU-1000.
  Please make sure to download the latest installation instructions.

Opening Motion

No handle is needed on the door front for opening.



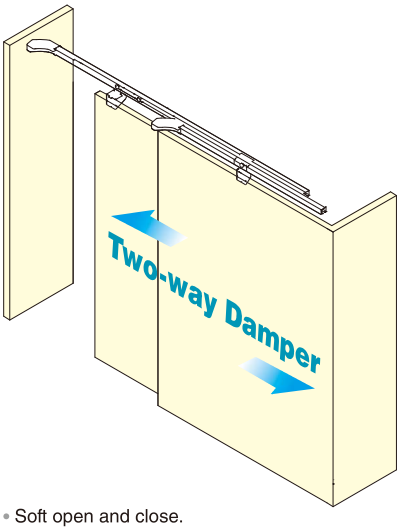
Feature

Installation

Black Parts

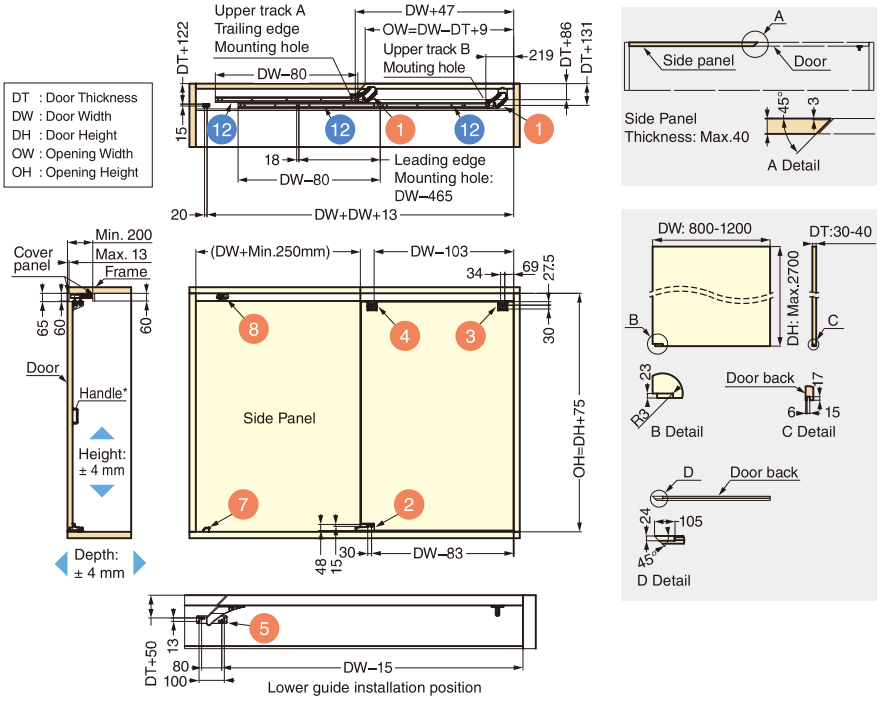


Two-way Damper



- Soft open and close.
- 100 mm long damper stroke.
- Light opening and closing force.

Installation Example



Circled number represents the part number in the parts table (P.527).

* Drawings are for a Left to Right opening (MFU1200-L). Right to Left opening (MFU1200-R) is symmetrically opposed.
* The door cannot be opened from the inside without a handle (not included).

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

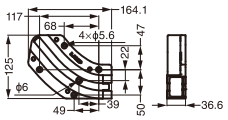
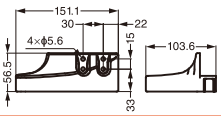
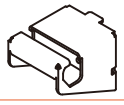
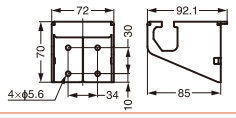
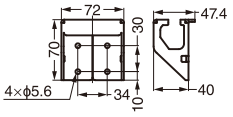
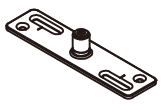
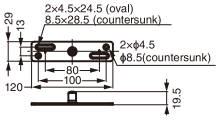
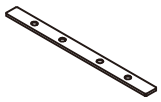
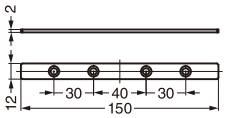
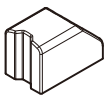
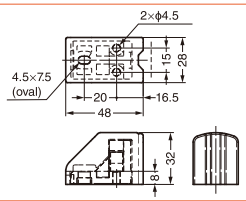
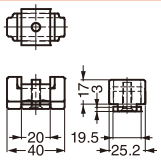
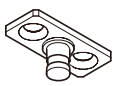
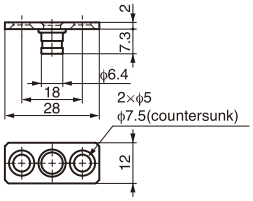
How to Order MFU1200 Two-way Damper

• Required Parts..... **Bracket Set** + **Closer Set** + **Rail Set**

Bracket Set Required Parts

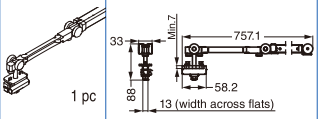
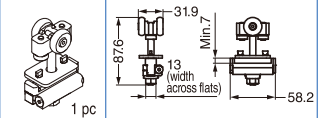
Set Name	Item Code	Item Name
Bracket set (L type)	250-047-832	MFU1200-L-BL
Bracket set (R type)	250-047-833	MFU1200-R-BL

Detail

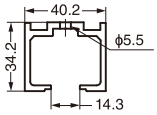
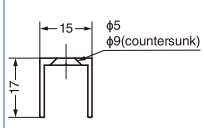
No.	Qty	Part Name	Drawing (L type)	Description
1	2	Guiding track (top) 		• Material: aluminium alloy • Finish: enamel / black
2	1	Guiding track (bottom) 		• Material: aluminium alloy • Finish: enamel / black
3	1	Bracket (leading edge) 		• Material:steel • Finish: enamel / black
4	1	Bracket (trailing edge) 		• Material:steel • Finish: enamel / black
5	1	Bottom guide 		• Material: steel / POM • Finish/Colour: electro-deposition / black
6	1	Connecting plate 		• Material:steel • Finish: electro-deposition / black
7	1	Door stopper (floor) 		• Material: zinc alloy / elastomer • Finish/Colour: chromate treatment (trivalent)/grey
8	1	Bumper block 		• Material: steel/elastomer • Finish/Colour: chromate/grey
9	2	Trigger 		• Material:steel • Finish: chromate treatment (trivalent)
10	1	Jig 	Can be ordered separately -	**Item Code: 250-036-530** **Item Name: FD80-TRJ** • Material:POM • Colour:green

Closer Set Required Parts (Select One)

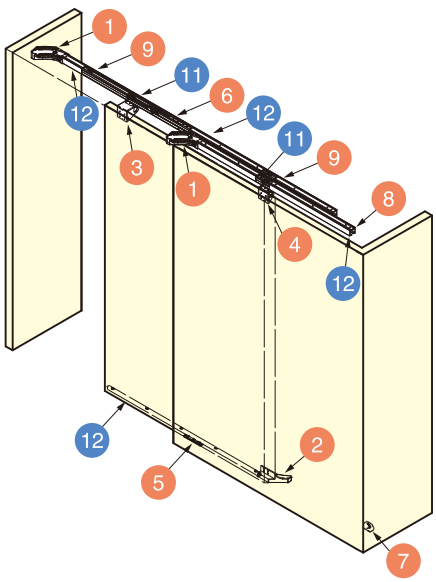
Select the appropriate part depending on door weight

No.	Type	Item Code	Part Name	Drawing	Description
11	Door Weight 20-40 (kg)	250-047-834 Item Name MFU1200-40DSC-BL	Soft closer (leading edge) 1 pc		• Material: steel/ POM • Finish: electro-deposition / black
	Door Weight 40-70 (kg)	250-047-835 Item Name MFU1200-70DSC-BL	Door roller (trailing edge) 1 pc		• Material: steel • Finish: electro-deposition / black

Rail Set Required Parts

No.	Item Code	Part Name	Drawing	Description
12	250-047-836 Item Name MFU1200-RS-BL	Upper track A 1120mm 2 pcs		• Material: aluminium alloy • Finish: black anodising + coating / clear
		Upper track B 850mm 1 pc		
		Bottom track 1100mm 1 pc		• Material: aluminium alloy • Finish: silver anodising + coating / clear

* Cut upper track A and bottom track according to the door size.

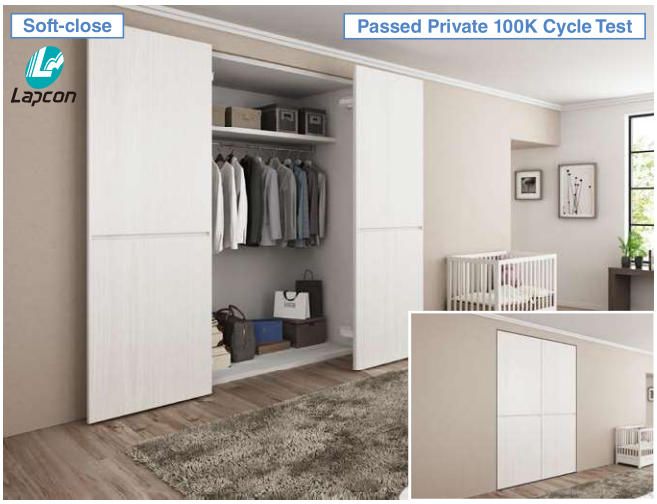


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP MONOFLAT LIN-X HINGE LIN-X800

Latest Info

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR




Damper causes doors to close softly.

MonoFlat LIN-X hinge®

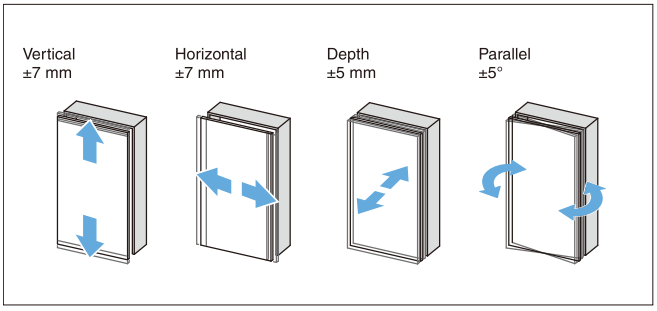
	LIN-X800	LIN-X800H
Door Width	750 - 850 mm	
Door Height	Max. 2400 mm	Max. 2980 mm
Door Thickness	24 - 40 mm	
Door Weight	Max. 40 kg per door	
Usage	1 per door (Overlay)	

- Innovative movement keeps doors discretely out of the way.
  Door closes flush with surrounding walls for a sleek and clean design.
  No need to do special processing on any wall for grooves or rails.
  Can be used on aluminium frames (if the frame has a thickness over 120 mm).
- Whether open or closed, door stays out of the way
  Compared to regular swing doors, has a small radius allowing the space in front of the door to be used effectively.
- Opens fully for access to entire cabinet.
  Whether installing cabinets or just getting access, the entire cabinet interior is easily accessible.
- Built-in soft close mechanism
  When the door closes, the internal damper will cause the door to close softly, preventing slamming.
- 4 Way adjustment post installation
  Can be adjusted vertically, horizontally, depth or paralel.
- Wide amount of applicable cabinets
  Can be used on dual opening, single opening cabinets. Can also be used on L shaped corner spaces.

INSTRUCTION SCREW

Parts Included

- OTruss head tapping screw 6 × 25
- Truss head screw M5 × 10
- M5 Square Nut
- One end mouth wrench

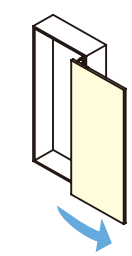


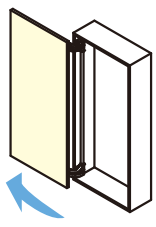
•Vertical, Horizontal, Depth and Parallel adjustment possible post-installation.

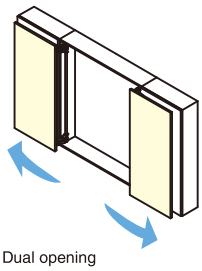
Colour Variation

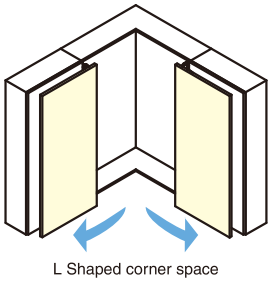

Black


White


Right opening


Left opening


Dual opening


L Shaped corner space

Feature Installation

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SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

How to Order LIN-X800

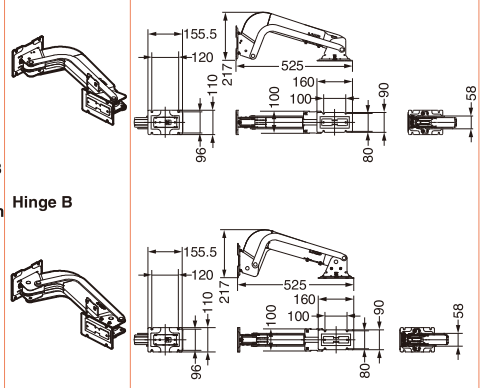
• Required Parts ..... Parts Set (per door)

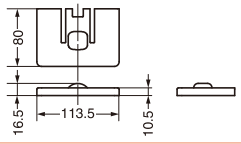
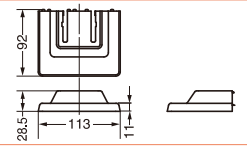
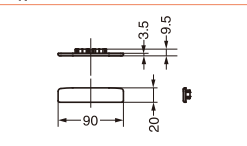
Parts Set (per door)

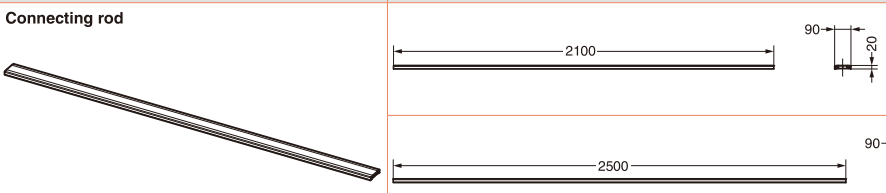
This set must be ordered. Select a suitable set according to the door height.

Item Code	Item Name	Door Height	Colour	Set Content (for LIN-X800)			
				①Hinge + ②③Washer Cover + ④Rod Cover		⑤Connecting Rod	
				Item Code	Item Name	Item Code	Item Name
250-043-897	LIN-X800-BL-S	2400 mm or Less	Black	250-043-834	LIN-X800-BL	250-043-842	LIN-X80-L2100-BL
250-043-898	LIN-X800-WT-S		White	250-043-835	LIN-X800-WT	250-043-843	LIN-X80-L2100-SL
250-043-899	LIN-X800H-BL-S	2980 mm or Less	Black	250-043-834	LIN-X800-BL	250-043-844	LIN-X80-L2500-BL
250-043-900	LIN-X800H-WT-S		White	250-043-835	LIN-X800-WT	250-043-845	LIN-X80-L2500-SL

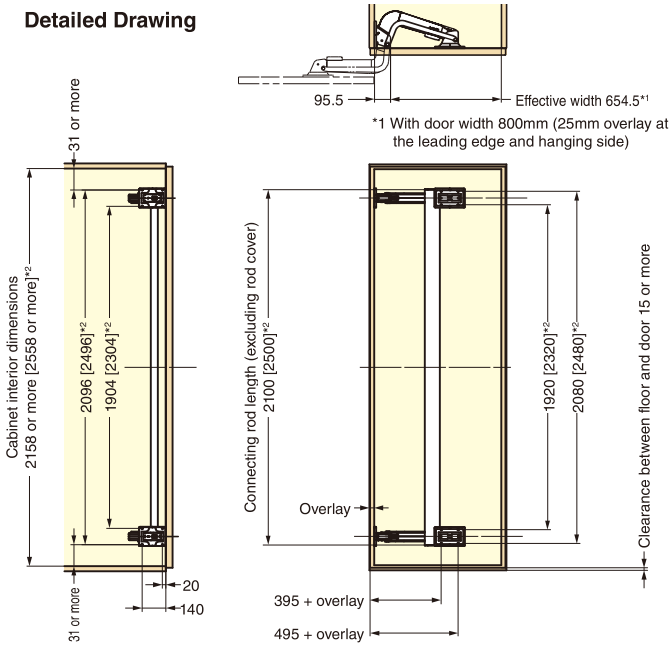
Part Set Contents

No.	Quantity	Parts in Set	Dimensions	Specifications
1	A· B 1 each	Hinge A Hinge B		• Material Steel (SPCC)/ Polyacetal (POM) • Finish Nickel Plating Baked enamel finish

No.	Quantity	Parts in Set	Dimensions	Specifications
2	4 pcs	Washer cover (hanging side)		• Material ABS resin
3	4 pcs	Washer cover (leading edge)		• Material ABS resin
4	2 pcs	Rod cover		• Material Polyacetal (POM)

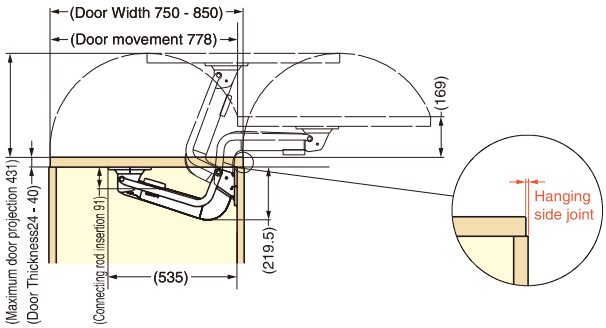
No.	Quantity	Parts in Set	Dimensions	Specifications
5	Either part	Connecting rod		• Material: Aluminium alloy • Finish: Anodized: Black/silver
				• Material: Aluminium alloy • Finish: Anodized: Black/silver

Detailed Drawing



*1 With door width 800mm (25mm overlay at the leading edge and hanging side)

Range of Motion



*2 The dimensions in [ ] indicate LIN-X800H specifications.

*2 For cabinet interior dimensions smaller than the minimum value, reduce the other dimensions marked with *2 by an equivalent amount. The connecting rod must be cut by the customer.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

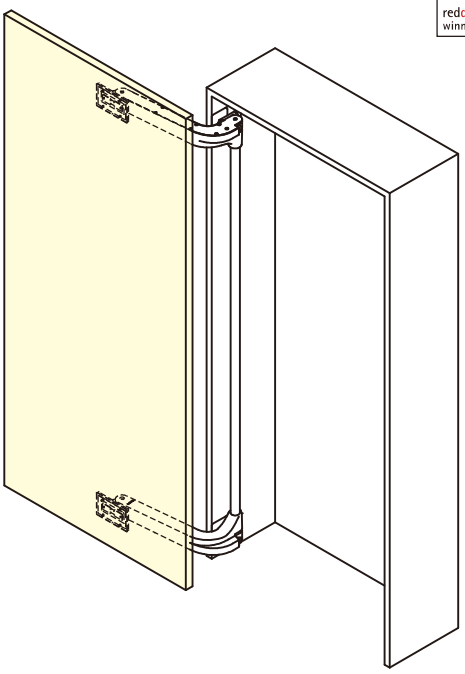
LAMP MONOFLAT LIN-X HINGE (HEAVY DUTY) LIN-X1000

Latest Info



GOOD DESIGN

reddot award 2017 winner



MonoFlat LIN-X hinge®

	LIN-X1000
Door Width	750 - 1100 mm
Door Height	2400* - 2980 mm
Door Thickness	24 - 40 mm
Door Weight	Max. 90 kg/Door

* If the connecting bar is cut , it can be made to be less than 2400mm. Please contact us for details.

- Unique lateral swinging movement.
- Swings out in small radius. Closes flush.
- Full access to cabinet interior: door will not get in the way when fully opened.
- Easier installation due to simplification of components.
- Free-stop: holds position at desired location within its open radius.
- Soft-closing: built-in damper slows down door near closing radius, preventing slamming.
- 4way post-installation adjustment: vertical (±7 mm), horizontal (±7 mm), depth (±5 mm) and parallel (±3°).
- Good Design Show winner 2016
- Reddot Product Design winner 2017

SCREW

Parts Included
- Truss head tapping screw 6×25 (16 pieces)

Applicable Door Load Capacity

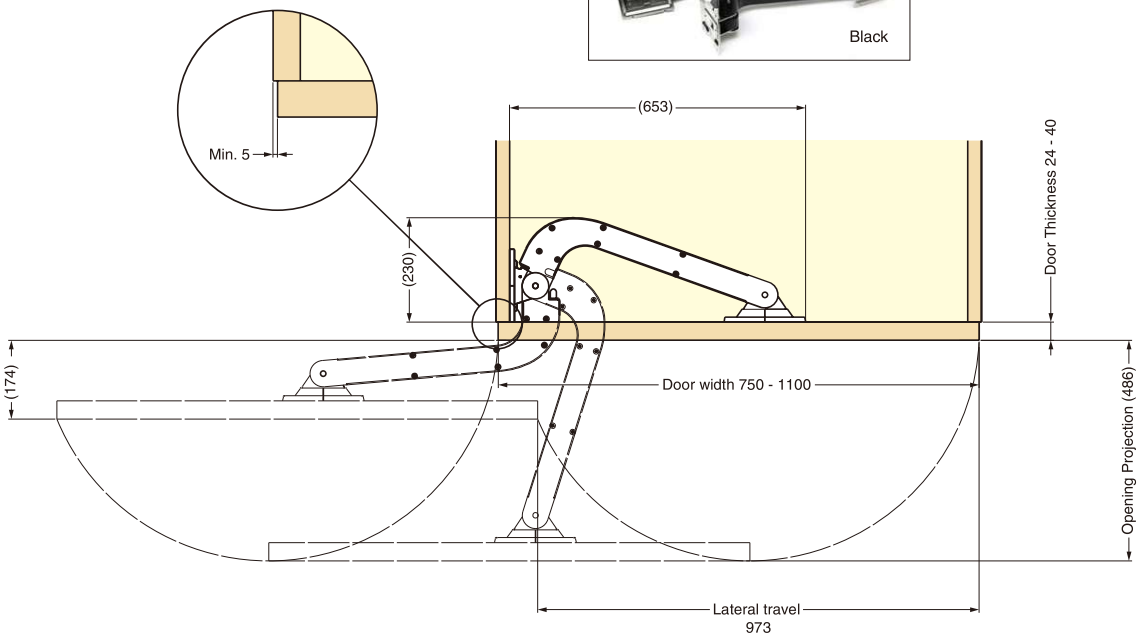
Open/Close cycles \ Door sagging	3 mm	5 mm
60,000	70 kg	90 kg
80,000	50 kg	80 kg
100,000	40 kg	70 kg

Colour variation



Feature

Installation



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
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HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
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How to Order LIN-X1000

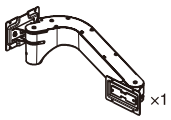
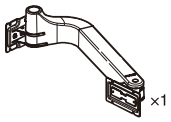
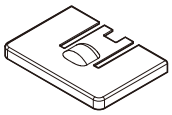
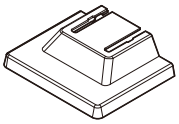
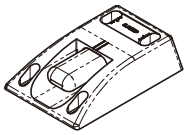
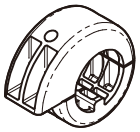
• Required Parts..... **Parts Set** + **Connecting Bar**

Parts Set (per door) Required Parts

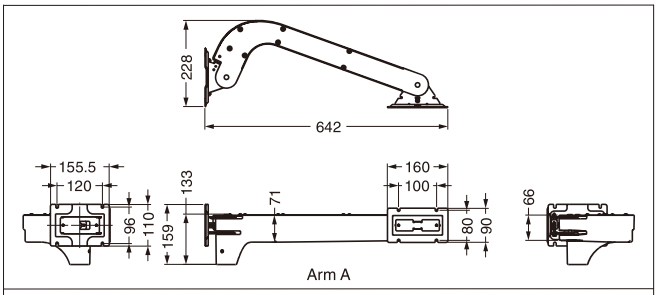
Item Code	Item Name
250-034-706	*LIN-X1000-WT
250-042-288	LIN-X1000-BL

Parts Included

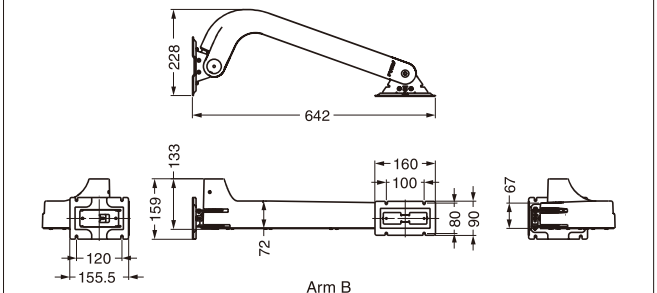
*The item name has been changed.

No.	Qty	Part Name	Description
1	1 pc	Arm A  ×1	• Material Aluminium Alloy • Finish Powder Coating/ White/Black
2	1 pc	Arm B  ×1	• Material Aluminium Alloy • Finish Powder Coating/ White/Black
3	4 pcs	Cover for Mounting Plate (Hinge Side) 	• Material ABS Resin • Finish White/Black
4	4 pcs	Cover for Mounting Plate (Door Side) 	• Material ABS Resin • Finish White/Black
5	1 pc	Damper for Opening  	• Material PBT Resin • Finish White/Black

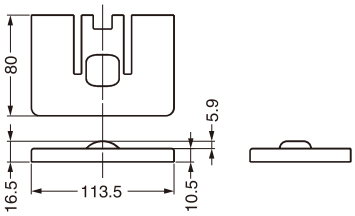
Parts Drawing



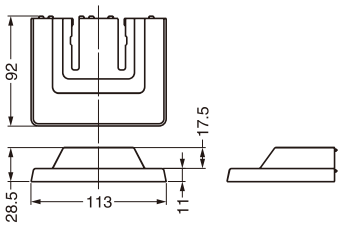
Arm A



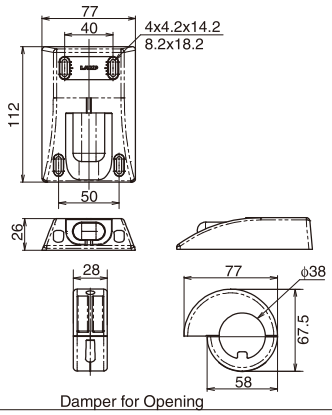
Arm B



Cover for Mounting Plate (Hinge Side)

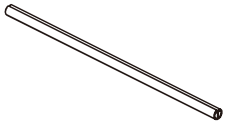


Cover for Mounting Plate (Door Side)

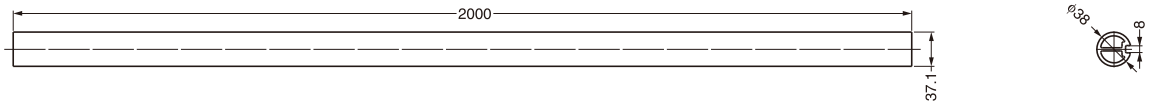


Damper for Opening

Connecting Bar Required Parts

No.	Qty	Part Name	Item Code	Item Name	Description
5	1 pc	Connecting Bar 	250-034-707	*LIN-X100-L2000-WT	• Material Aluminium Extrusion • Finish White Enamel
			250-042-289	LIN-X100-L2000-BL	• Material Aluminium Extrusion • Finish Black Anodized

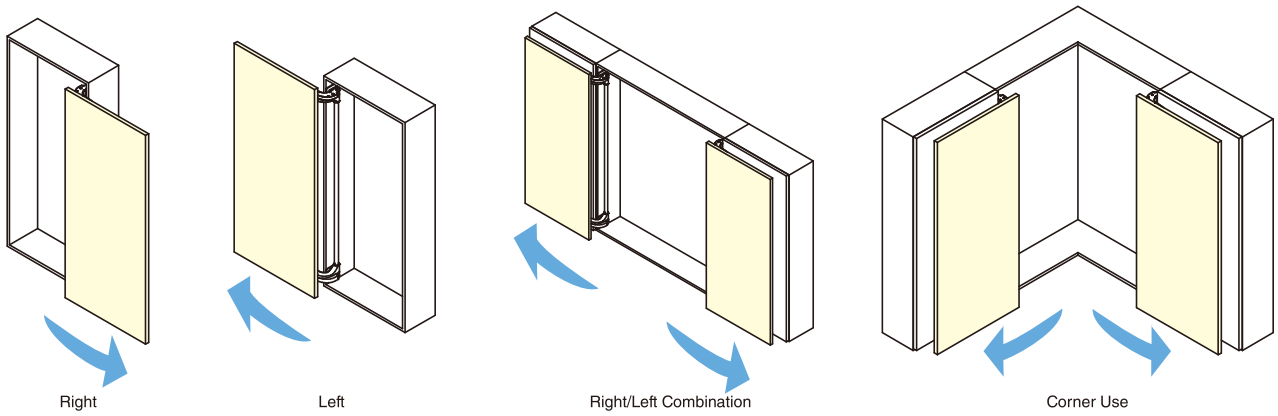
*The item name has been changed.



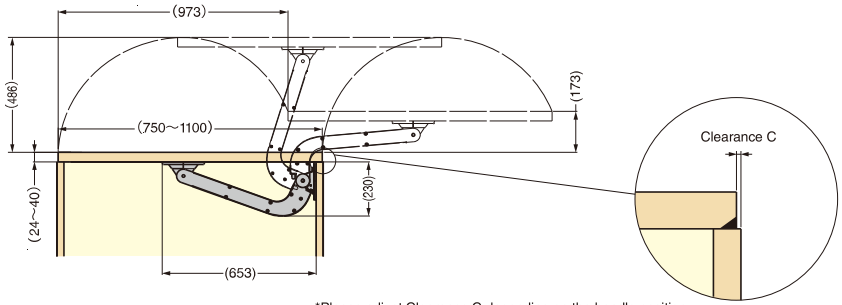
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Various Applications



Door arc



*Please adjust Clearance C depending on the handle position.
For detail, refer to a manual.

Installation

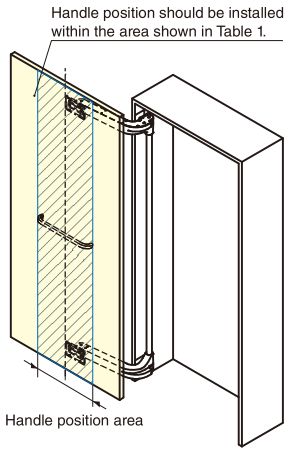
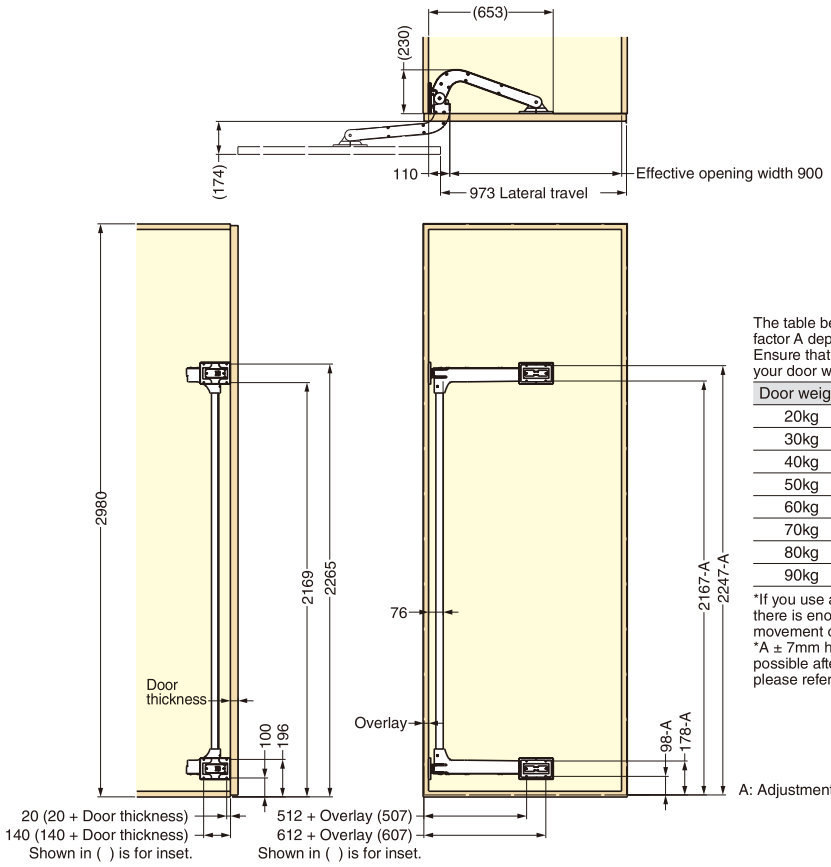


Table 1 : Handle position area [mm]

Door width \ Clearance C	10	15	20
750-900	Max.300	Max.350	Max.500
900-1000	Max.200	Max.250	Max.400
1000-1100	Max.100	Max.150	Max.300

*Door thickness : 40mm
*Handle position area is centred on the door width.



The table below shows the adjustment factor A depending on the door weight. Ensure that you adjust according to your door weight.

Door weight	Adjustment factor A
20kg	2mm
30kg	3.5mm
40kg	5mm
50kg	6.5mm
60kg	8mm
70kg	9.5mm
80kg	11mm
90kg	12.5mm

*If you use a thick carpet, ensure that there is enough clearance for free movement of the door.
*A ± 7mm height adjustment is possible after installation. For detail, please refer to a manual

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Our site offers...

- Keyword Search + Product Filters
- Installation Instructions
- New Product Information
- CAD Data (2D, 3D)
- Customer Solution Case Studies
- Product Videos
- Hardware Basics
- Selection Tools



Experience the Unseen

When designing a door,
it's normal to focus on obvious visual aspects.

Hinges are often a secondary matter.

With this in mind,
we realise the value of hinges
that won't interfere with the door design.

The HES was designed to reflect this concept
to achieve great door design and functionality.

HES
Hinge + Esprit

Feature

Slim Frame

Seamless Integration into the Frame

HES1F







Frameless / Framed Doors Supported

HES3D



Without Frame

With Frame

Easy Surface Mounting

HES2S



LINEUP

Selection tool
May support conditions other than those specified in this catalogue.

200mm
160mm
120mm
80mm
40mm



HES3D-120
HES3D-120-A100
HES3D-H120-36

NEW

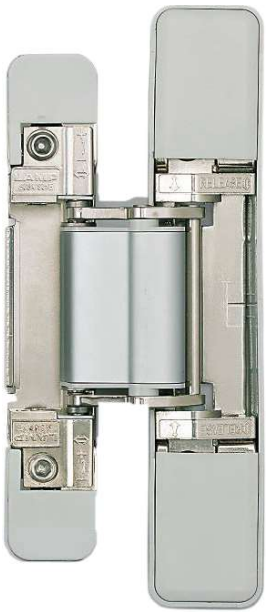


HES1F-140

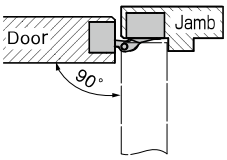
NEW



HES2S-140-A125



HES3D-V135LGR

Load capacity	3	40 kgf	50 kgf		55 kgf
	2	30 kgf	40 kgf		
Product		 **HES3D-120** For light-weight doors. KIDS DESIGN AWARD 2021 ▶ P.547	 **HES3D-120-A100** Opens 100°. Can be used with door restrictors. KIDS DESIGN AWARD 2021 ▶ P.548	 **HES2S-150-A110** Surface mount for door frame enables easy installation. ▶ P.546	 **HES1F-140** Integrates in 8mm frame KIDS DESIGN AWARD 2022 GOOD DESIGN AWARD 2022 BEST 100 ▶ P.540	 **HES3D-V135LGR** Unique motion by multi-axis.  ▶ P.551
Door Size (mm)	Width				≤ 900
	Height	≤ 2400	≤ 2700		≤ 2400
	Thickness	≥ 29	≥ 35	≥ 36	≥ 30

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

NEW



HES2S-150-A110



HES3D-E160

NEW



HGS3D-S160SH

\ High Load Capacity /



HES3D-E190
HES3D-W190

65 kgf	70 kgf	100 kgf	125 kgf
50 kgf	55 kgf	80 kgf	100 kgf



HES3D-H120-36

The position of door cutouts will be at the centre. (36mm thick)

KIDS DESIGN AWARD 2021

▶ P.550



HES2S-140-A125

No cutout on the jamb side (surface mount).
Opens 125°.

▶ P.545



HES3D-E160

For mid-weight doors

▶ P.552



HGS3D-S160SH

Made of stainless steel. Great corrosion resistance.

▶ P.553



HES3D-E190

Meets fire resistance standards. UL Rated, up to 3 Hours.

▶ P.554



HES3D-W190

Has a long arm for a wider throw.
For clad and thick doors. UL Rated, up to 3 Hours
(DC, DN, and BL models only)

▶ P.556

				≤ 915
≤ 2700		≤ 2400		≤ 2440
≥ 34	≥ 38	≥ 36	≥ 38	≥ 42

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Update: 03.10.2025

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SLIDING DOOR



Create minimal design

LAMP NEW

SLIM FRAME HINGE HES1F-140

Load Capacity

40kgf/2 pcs 50kgf/3 pcs

3D Adjustability

Vertical: ±4mm
Horizontal: ±2mm
Depth: ±1mm

Safe for Kids

Has a minimal gap on hinge side.
This reduces the risk of finger pinching



White



Black



open



closed

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

HES1F-140 *for Stylish Design*

Seamless Integration into Frames

Virtually Invisible Design

Flush-to-Wall Doors

with slim-framed doors.

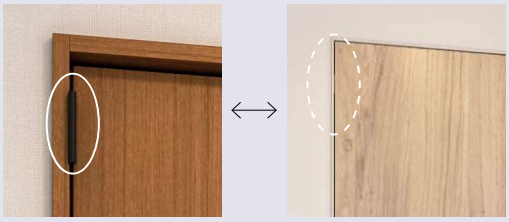
DESIGN AWARD 2023

GOOD DESIGN AWARD 2022 BEST 100

KIDS DESIGN AWARD 2022

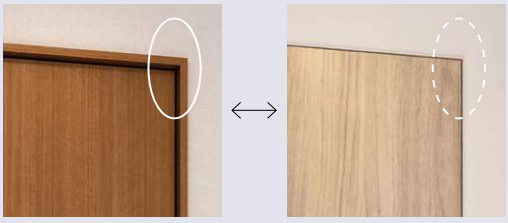


Seamless integration into slim frames



The hinge will be virtually invisible from view.

Flush with the wall



Optional parts are required. (base spacer / strike plate)



Standard hinge



HES1F hinge

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Update: 10.18.2024

LAMP SLIM FRAME HINGE HES1F-140 NEW

Latest Info

HES Hinge + Esprit

Passed Private 300K Cycle Test



Black



White

- Seamlessly integrates into the slim frame for a clean and modern look. The shaft part thickness is only 8 mm.
- Door is flush with wall when closed.
- 3D Adjustment Post Installation: Adjust vertically, horizontally, and depth.
- For simplified door hanging, the hinge divides into two parts: one for the door-side and one for the jamb-side.
- Can temporarily be hung before fixing with screws.
- KIDS DESIGN AWARD 2022 Encouragement Award: KDA Chairman's Award

INSTRUCTION SCREW

Parts Included

- For Door: Cross-recessed pan head tapping screw 4×16 (4 pcs/hinge)
- For Jamb: Cross-recessed countersunk tapping screw 4×20 (5 pcs/hinge)
- Hex key 3
- Cutout template

Optional Parts

- Base spacer
- Adjustment strike plate

Remarks

- When using a lever handle, the optional base spacer and adjustment strike plate are required.

Without Covers





DESIGN AWARD 2023

GOOD DESIGN AWARD 2022 BEST 100

KIDS DESIGN AWARD 2022

Installation Example

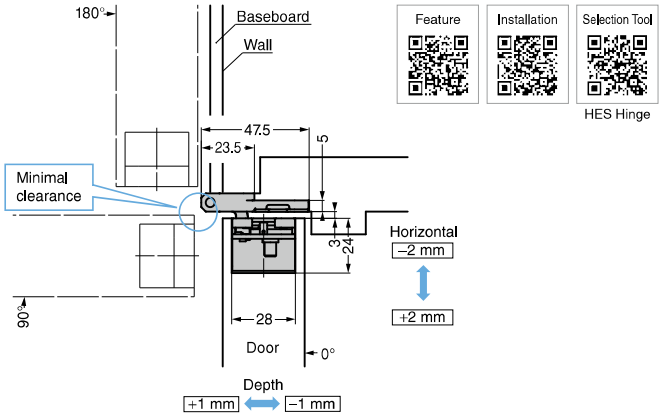


Open



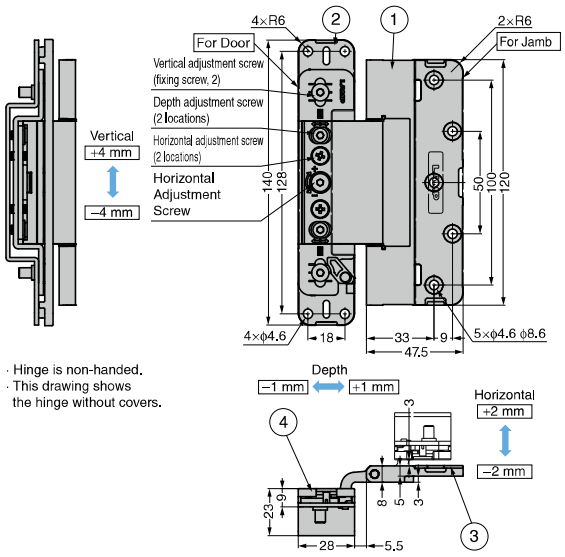
Closed

Locus Chart



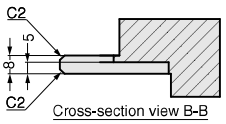
Feature Installation Selection Tool

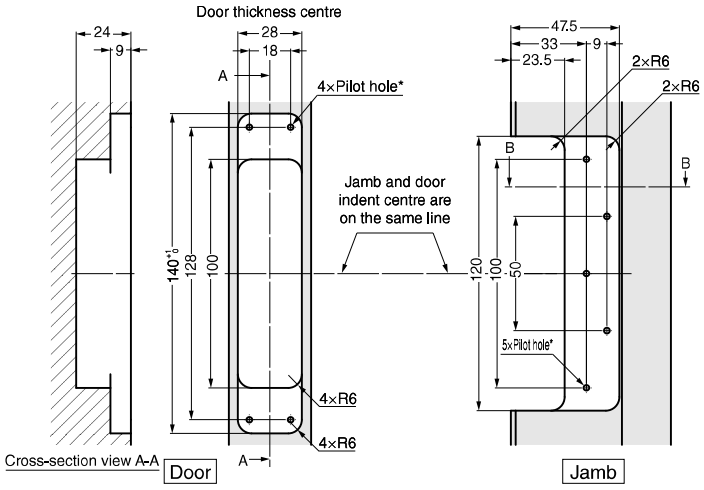
HES Hinge



· Hinge is non-handed.
· This drawing shows the hinge without covers.

Cut Out Dimension





*Diameter and depth of the pilot hole depends on the strength of the wood.

No.	Part Name	Material	Finish/Colour	
			BL	WT
①	Body	Zinc Alloy (ZDC)	baked finish/Black	baked finish/White
②	Base Plate	Steel (SPCC)	Chrome	
③	Jamb Side Cover	ABS	Black	White
④	Door Side Cover			

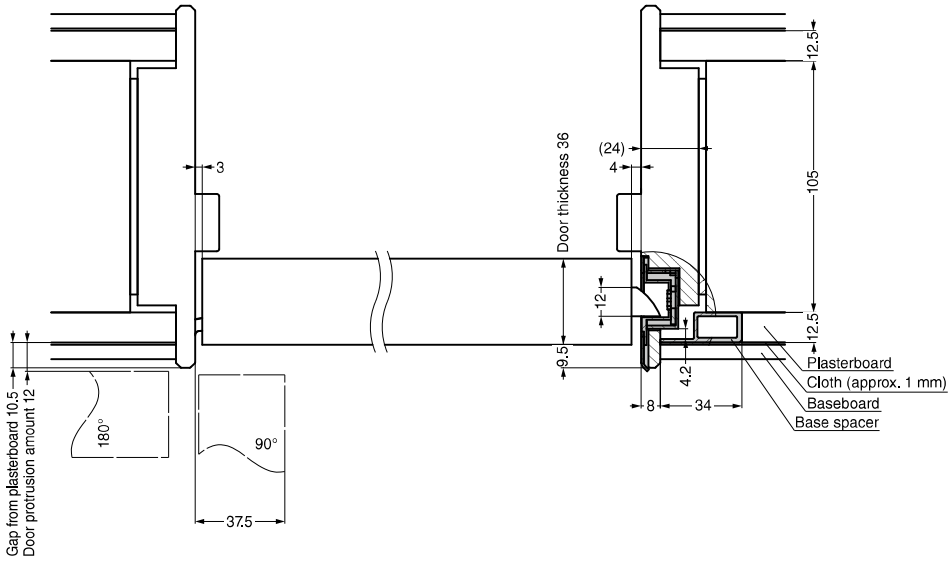
Hinge

Item Code	Item Name	Colour	Door Size			Load Capacity				Opening Angle
			Width	Height	Thickness	N/2pcs	kgf/2pcs	N/3pcs	kgf/3pcs	
170-053-352	HES1F-140-BL	Black	Max. 900	Max. 2700	Min. 36	392	40	490	50	180°
170-053-353	HES1F-140-WT	White								

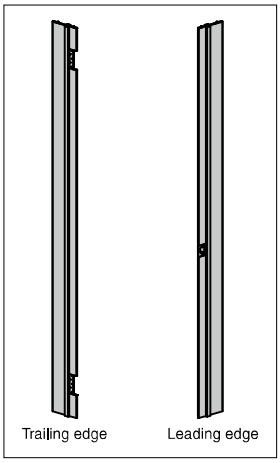
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Standard Installation

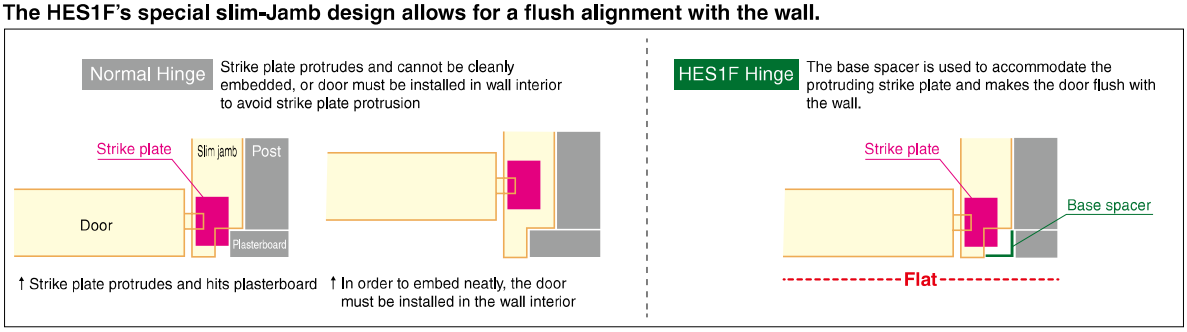
*Shows 8 mm width jamb.



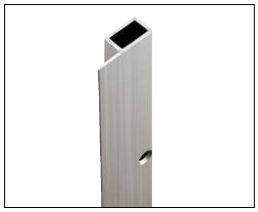
Aluminium frame (8 mm) is also under development.

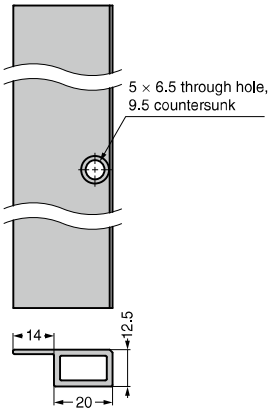


The HES1F's special slim-Jamb design allows for a flush alignment with the wall.



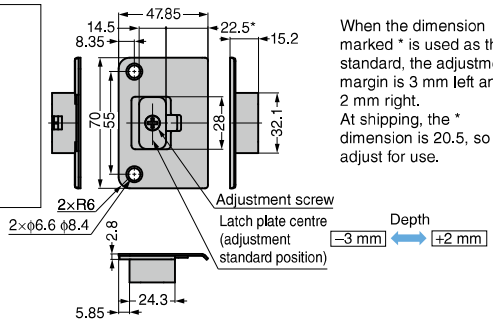
Base Spacer (Optional parts)





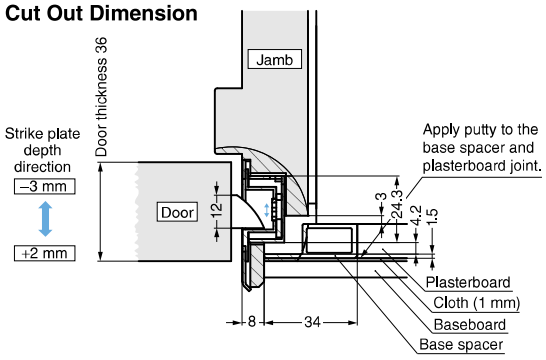
Adjustment Strike plate (Optional parts)

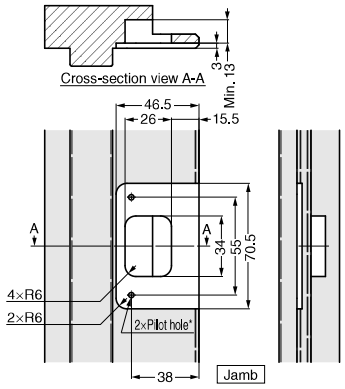




When the dimension marked * is used as the standard, the adjustment margin is 3 mm left and 2 mm right.
At shipping, the * dimension is 20.5, so adjust for use.

Cut Out Dimension





*Diameter and depth of the pilot hole depends on the strength of the wood.

Base Spacer (Optional parts)

Item Code	Item Name	Material	Finish	Length	Weight (g)
170-053-400	HES1F-SP-2530	Aluminium Alloy	Anodized	2530	917
170-053-401	HES1F-SP-2730			2730	990

Adjustment Strike plate (Optional parts)

Item Code	Item Name	Main material	Colour
170-053-354	HES1F-AST-SL	Stainless Steel (SUS304)	Silver

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP SLIM FRAME AND HINGE SET HES1F-B NEW

Latest Info



*Door is not included.



- A set of necessary parts to make slim-framed doors.
- Includes aluminium frames, a strike plate, and the HES1F-140 hinge (P.540).
- The hinges and plates are preassembled on to the frames.
- Supports various wall thicknesses. Base frames can be used as stand-alone unit.
- The hinge has a 3-way adjustment function. Doors are easy to install.
- Patent pending in several countries.

INSTRUCTION SCREW

Selection Tool
HES Hinge

Specifications

- Compatible wall thickness
  Base frame + adjustment frame: 114~145 mm
  Wallpaper: 90 mm up
- Compatible plasterboard thickness: 12.5 mm

Parts Included

- Base frame: Hinge cover, cross-recessed pan head tapping screws 4×16, cross-recessed truss head tapping screws 4×40, screw caps for frame, hex key nominal 3, cutout template
- Adjustment frame: Screw caps for frame, cross-recessed truss head tapping screws 4×40

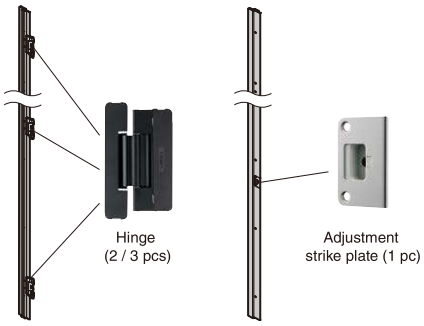
Optional Parts

- Base spacer (P.541) (Prevent interference between the plasterboard and the adjustment strike plate)

Base Frames

Includes two frames (leading edge and hinge side). All parts are preassembled.

Items in the set



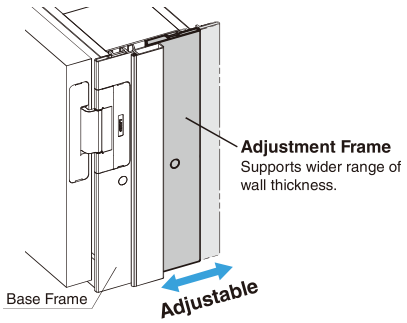
Colour Variation



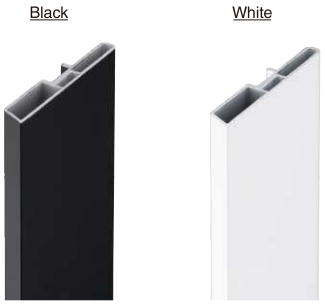

Comes with a gasket.

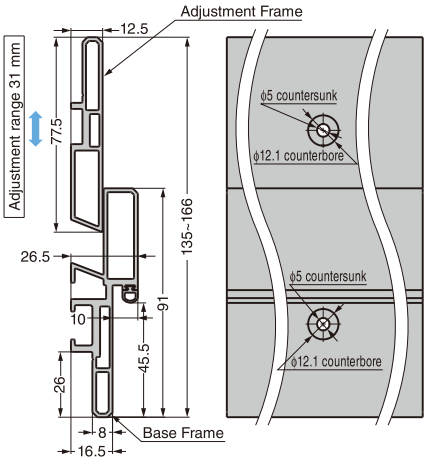
Adjustment Frames

Includes two frames components (leading edge and hinge side).



Colour Variation





Base Frame

Item Code	Item Name	Colour	Handed	Set Content	No. of Hinges	Door Thickness	Frame Height	Load Capacity N	Load Capacity kgf
170-054-170	HES1F-B2500L-BL	Black	Left	- Base frames (2 pcs) - Hinges - Adjustment strike plate (1 pc)	2 pcs	36~45	2500	392	40
170-054-171	HES1F-B2500R-BL		Right						
170-054-168	HES1F-B2500L-WT	White	Left						
170-054-169	HES1F-B2500R-WT		Right						
170-054-164	HES1F-B2700L-BL	Black	Left		3 pcs		2700	490	50
170-054-165	HES1F-B2700R-BL		Right						
170-054-162	HES1F-B2700L-WT	White	Left						
170-054-163	HES1F-B2700R-WT		Right						

Adjustment Frame

Item Code	Item Name	Colour	Handed	Set Content	Door Thickness	Frame Height
170-054-173	HES1F-A2500-BL	Black	Non-handed	Adjustment frames (2 pcs)	36~45	2500
170-054-172	HES1F-A2500-WT	White				
170-054-167	HES1F-A2700-BL	Black				2700
170-054-166	HES1F-A2700-WT	White				

Base Spacer (Optional Parts (P.541))

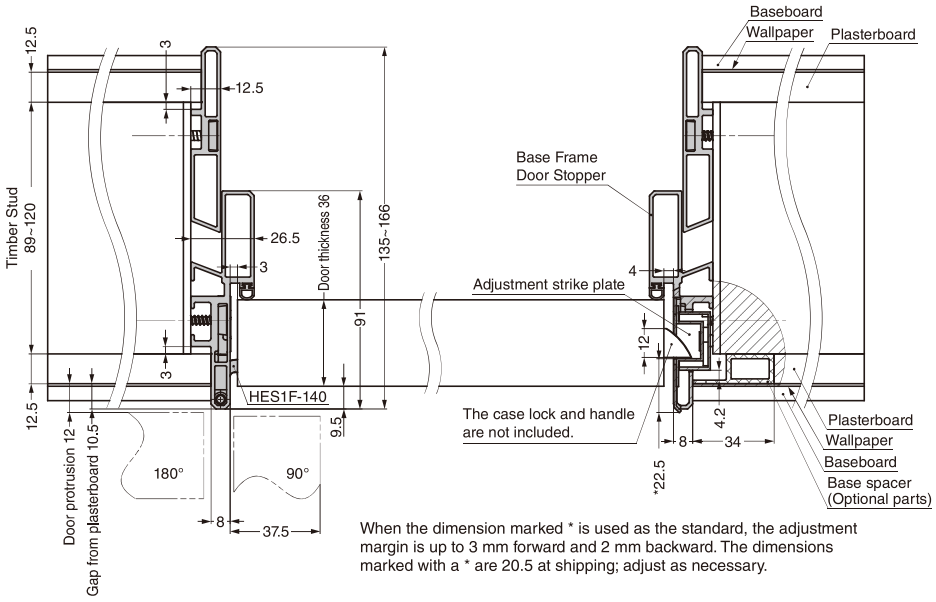
Item Code	Item Name	Material	Finish	Length	Weight (g)
170-053-400	HES1F-SP-2530	Aluminium Alloy	Anodized	2530	917
170-053-401	HES1F-SP-2730			2730	990

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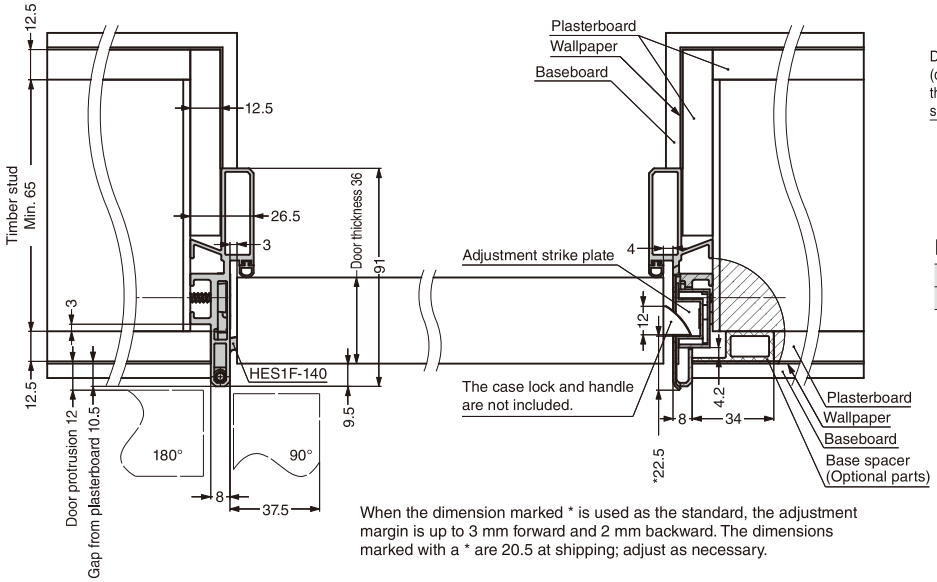
Left-handed type shown.
Use the optional base spacer with the standard installation below.
For details, see the base spacer cut out dimensions (P.541).

Standard Installation (Base Frame + Adjustment Frame)



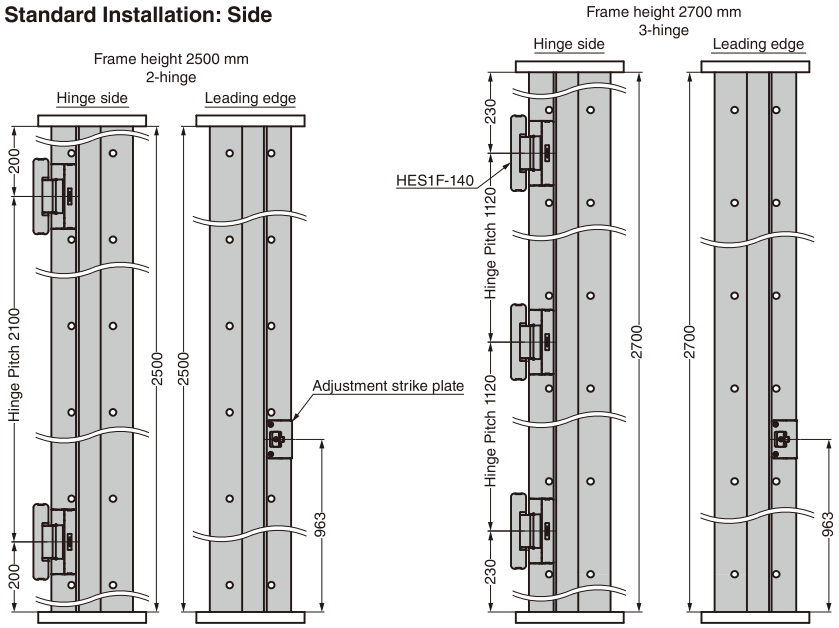
When the dimension marked * is used as the standard, the adjustment margin is up to 3 mm forward and 2 mm backward. The dimensions marked with a * are 20.5 at shipping; adjust as necessary.

Standard Installation: Wallpaper (Base frame only)

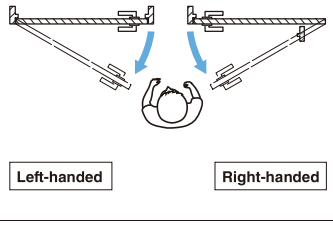


When the dimension marked * is used as the standard, the adjustment margin is up to 3 mm forward and 2 mm backward. The dimensions marked with a * are 20.5 at shipping; adjust as necessary.

Standard Installation: Side

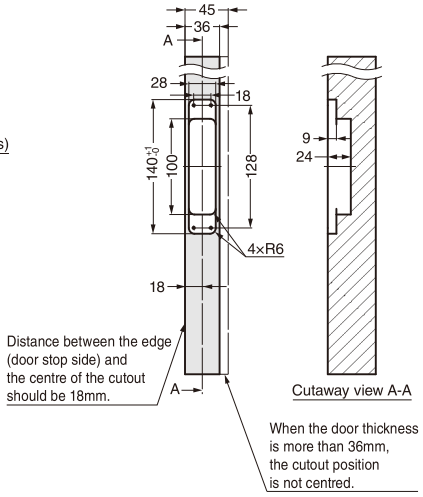


Door Hinge Side



Door Side Cut Out Dimensions

For right-handed doors, the position of the cutout should be reversed.



Baseboard Thickness Guideline

Door Thickness	36	40	45
Baseboard Thickness	Max. 9	Max. 8	Max. 3

Frames can be cut

For cutting specifications, please check the instruction manual on our website.

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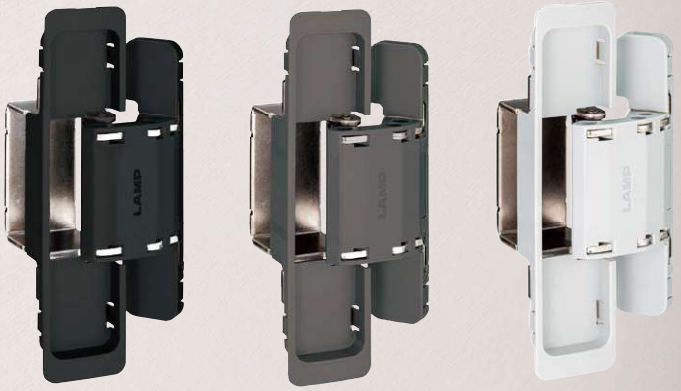
Easy to Install
No Jamb Cutouts Needed

HES2S-140-A125

No mortising on the jamb side.

Useful on jambs that are too thin to mortise.

Compact body with high load capacity.



Black　Dark Grey　Light Grey

LAMP NEW

SURFACE-MOUNT CONCEALED HINGE
HES2S-140-A125

■Can be used on slim-framed and frameless doors because no jamb mortising is required.



Load Capacity
50kgf /2 pcs　65kgf /3 pcs

3D Adjustability
Vertical: ±3mm
Horizontal: +1mm
Depth: ±3mm

Easy to Install
No mortising is required on the jamb side.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP SURFACE-MOUNT CONCEALED HINGE HES2S-140-A125 125° Opening NEW

Latest Info

HES Hinge + Esprit

Passed Private 300K Cycle Test



Black Dark Grey Light Grey



Closed Back With cover and plate removed

DESIGN AWARD 2023

interzum AWARD

- Surface mounts on the jamb side for easy installation.
- 3D Adjustment Post-Installation: adjust vertically, horizontally, and depth.

INSTRUCTION SCREW

Remarks

- Read all remarks on handling thoroughly before use.
- Use with a door stopper, etc. to prevent opening farther than 125°.

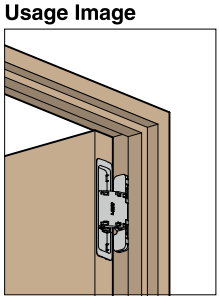
Parts included

- Countersunk head tapping screw 4×20 (8 pcs/hinge) Steel
- Door side drilling/jamb side mounting template

Feature Installation Selection Tool

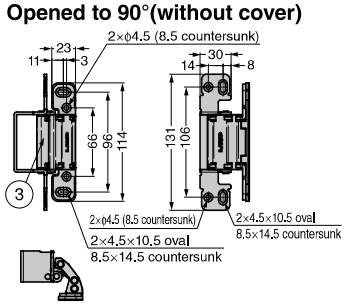
HES Hinge

Usage Image

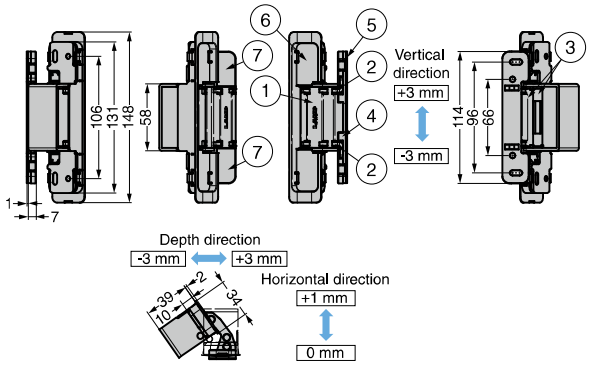


No mortising on the jamb side is required.

Opened to 90°(without cover)

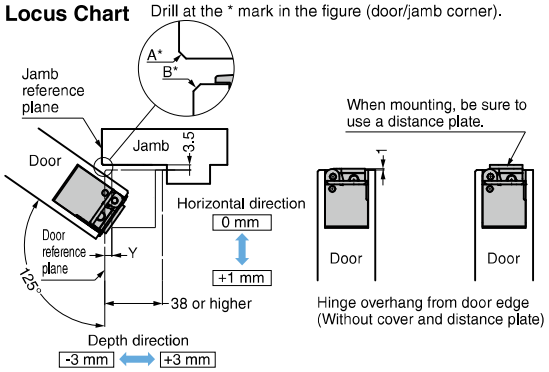


Opened to 125°(with cover)



Locus Chart

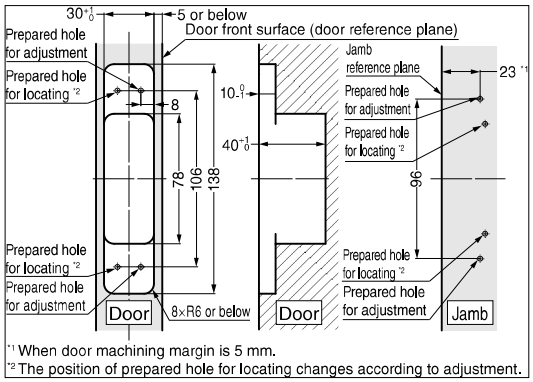
Drill at the * mark in the figure (door/jamb corner).



Y: Door Machining Margin	B: Door chamfering	A: Jamb chamfering
4 or below	1 or higher	1 or higher
5		

Cut Out Dimensions

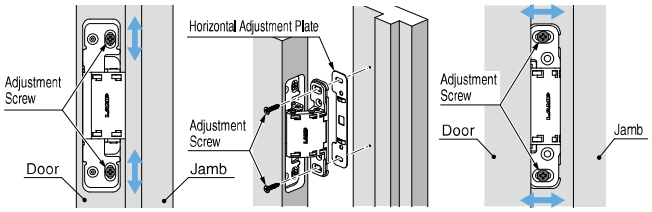
Drill pilot holes at the positions of the adjustment and locating screws.



*1 When door machining margin is 5 mm.
*2 The position of prepared hole for locating changes according to adjustment.

Door Position Adjustment

- Vertical adjustment (±3 mm)
- Horizontal adjustment (+1 mm)
- Depth adjustment (±3 mm)



Adjust in the vertical/depth directions with oval hole screws and in the horizontal direction with the plate.

No.	Part Name	Material	Finish / Colour
①	Body	POM	Dark Grey, Light Grey, Black
②	Base Plate	SPCC	Nickel
③	Arm	Zinc Alloy (ZDC)	Chemical Treatment
④	Distance Plate	PBT	Dark Grey, Light Grey, Black
⑤	Horizontal Adjustment Plate	POM	
⑥	Socket Cover	ABS	
⑦	Base Plate Cover		

Item Code	Item Name	Colour	Door Width	Door Height	Door Thickness	Door Weight kgf/2 pcs	Door Weight kgf/3 pcs	Opening Angle
170-053-252	HES2S-140-A125-DGR	Dark Grey	Max. 900	Max. 2700	Min. 38	50	65	125°
170-053-253	HES2S-140-A125-LGR	Light Grey						
170-050-758	HES2S-140-A125-BL	Black						

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP SURFACE-MOUNT CONCEALED HINGE HES2S-150-A110 110° Opening NEW

Latest Info

HES Hinge + Esprit

Passed Private 300K Cycle Test



- Surface mounts on the jamb side for easy installation.
- Supports door thickness of 35 mm or more.
- For doors with a thickness of 35 or 36 mm, centre mounting is possible, making the door non-handed (usable as both right-handed and left-handed).
- 3D Adjustment Post Installation: Adjust vertically, horizontally, and depth.

INSTRUCTION SCREW

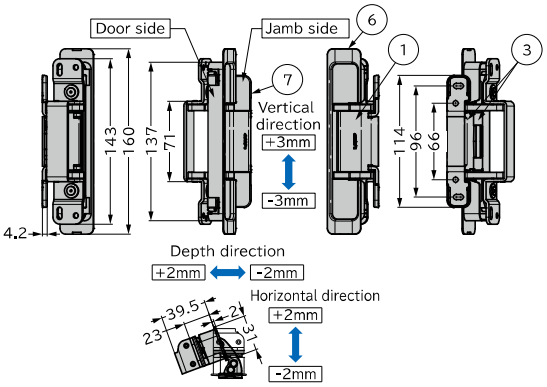
Parts included

- Countersunk head tapping screw 4×20 (4 pcs/hinge) Stainless
- Cross-recessed truss tapping screw 4×16 (4 pcs/hinge) Steel
- Hex key 3
- Door side drilling/frame side mounting template

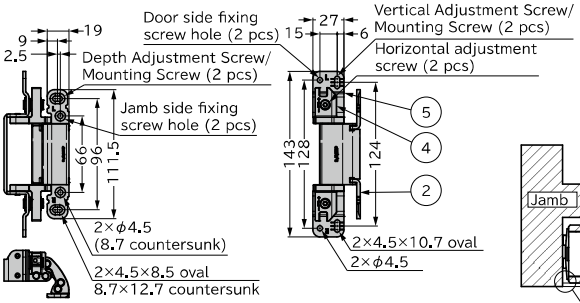
Remarks

- Use with a door stopper to prevent opening farther than 110°.
- The hinge cannot be divided between the door and jamb.
- Use the selection tool to check the compatibility for your projects.

Dimensions



*The illustration below shows the state when opened at 90° without a cover.



Usage Image



No mortising on the jamb side is required.

Selection Tool

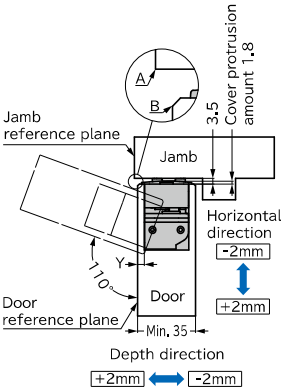
HES Hinge

Locus Chart

Drill at the door corner (B). The jamb corner (A) can be used even without machining.

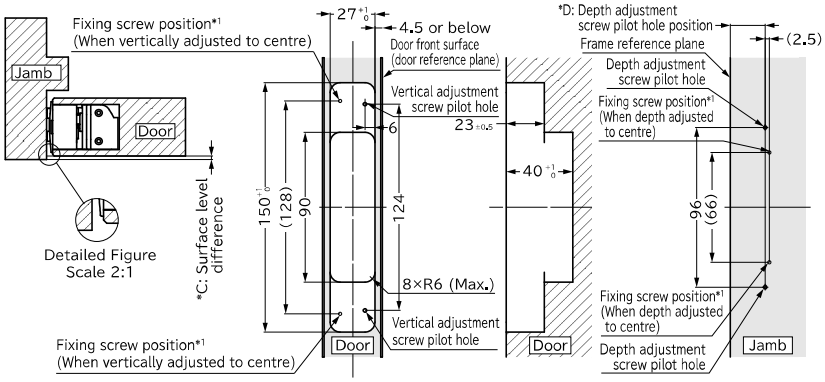
Check the leading edge opening clearance in the table (P.64).

Y: Door Machining Margin	B: Door chamfering	A: Jamb chamfering
4.5 or below	1 or higher	-



Cut Out Dimensions

Drill pilot holes at the positions of the adjustment and locating screws.



*1 Vertical/depth adjustment is not possible when the fixing screws have been mounted. Be sure to adjust in the vertical/depth directions before drilling the fixing screw pilot holes and mounting the fixing screws.

No.	Part Name	Material	Finish / Colour
①	Body	POM	-
②	Base Plate	SPCC	Chrome
③	Arm	Zinc Alloy (ZDC)	Chemical Treatment
④	Inner Socket		Chrome
⑤	Outer Socket	SPCC	
⑥	Socket Cover	ABS	-
⑦	Base Plate Cover		

35 mm door (machining margin 4 mm)	
*C: Surface level difference	*D: Adjustment screw pilot hole position
0	19
1	20
2	21
3	22
4	23
5	24

36 mm door (machining margin 4.5 mm)	
*C: Surface level difference	*D: Adjustment screw pilot hole position
0	19.5
1	20.5
2	21.5
3	22.5
4	23.5
5	24.5

Item Code	Item Name	Colour	Door Width	Door Height	Door Thickness	Door Weight kgf/2 pcs	Door Weight kgf/3 pcs	Opening Angle
170-056-969	HES2S-150-A110-WT	White	Max. 900	Max. 2700	Min. 35	40	50	110°
170-056-970	HES2S-150-A110-BL	Black						
170-056-971	HES2S-150-A110-WGR	Warm Grey						

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP 3-WAY ADJUSTABLE CONCEALED HINGE HES3D-120

Latest Info

HES Hinge + Esprit

Passed Private 300K Cycle Test



KIDS DESIGN AWARD 2021

- Thin profile (21mm) allows for shallow mortise.
- 3D Adjustment Post Installation: Adjust vertically, horizontally, and depth.
- For simplified door hanging, the hinge divides into two parts: one for the door-side and one for the jamb-side.
- Can temporarily be hung before fixing with screws.
- Custom colors available on request. Please contact us for details.

INSTRUCTION SCREW

Remarks

- Read all remarks on handling thoroughly before use.
- Please use the Selection Tool for HES Concealed Hinges to select a hinge.
- Recommended for use with the following compatible door damper/door closers: LDD-S (P.566) and LDD-V (P.568).
- When used in combination with door restrictors, please use HES3D-120-A100 instead. (P.548)

Parts Included

- Countersunk head tapping screw 5×20
- Hex. wrench (a nominal diameter 3)
- Cutout template

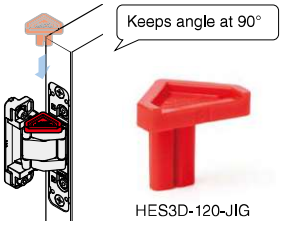
Sold Separately

- Metal door bracket 120BKT (P.549)

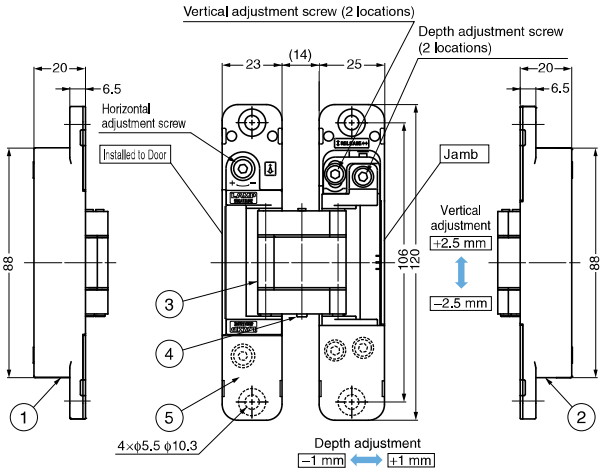
Without Covers

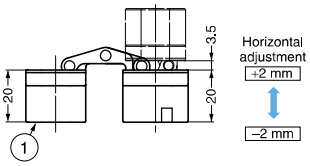


Easy Installation with Jig



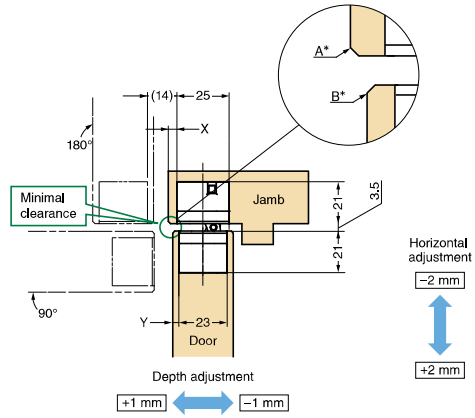
Feature





Selection Tool | Example | Installation

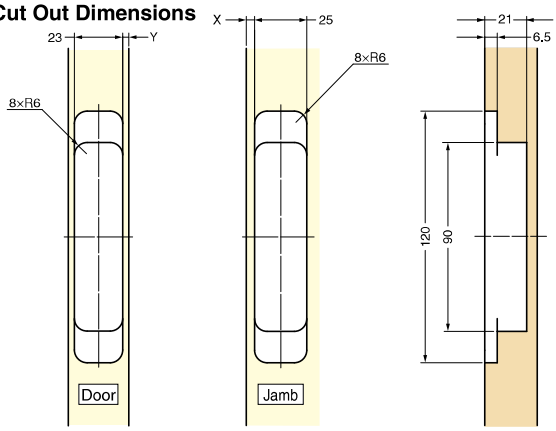
HES Hinge



Please process the part (corner of door/jamb) of * marked on the drawing to C1 or more (or R1 or more).

Y: Door machining margin	B: Door chamfering	X: Jamb machining margin	A: Jamb chamfering
4 and under	1	5 and under	1
	2	6	2
		7	
5	3	5 and under	3

Cut Out Dimensions



No.	Part Name	Material	Finish/Colour		
			DC	DN	BL
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
②	Base Frame	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
③	Arm	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
④	Shaft	Stainless Steel	–	–	–
⑤	Cover (2 pairs)	ABS	Satin Chrome	Satin Nickel	Black

Item Code	Item Name	Colour	Door Width	Door Height	Door Thickness	Door Weight		Opening Angle	Weight	Box	Carton
–	HES3D-120DC	Silver	Max. 900	Max. 2400	Min. 29	Max. 30 kg/2 pcs	Max. 40 kg/3 pcs	180°	401 g	2 pcs	24 pcs
–	HES3D-120DN	Champagne Gold	Max. 900	Max. 2400	Min. 29	Max. 30 kg/2 pcs	Max. 40 kg/3 pcs	180°	401 g	2 pcs	24 pcs
–	HES3D-120BL	Black	Max. 900	Max. 2400	Min. 29	Max. 30 kg/2 pcs	Max. 40 kg/3 pcs	180°	401 g	2 pcs	24 pcs

Installation Template

This is sold in pairs, one for the door and one for the jamb.

Item Code	Item Name	Material	Colour
170-024-569	HES3D-120-TMP	Methacrylic Resin (PMMA)	Clear

Installation Jig

Item Code	Item Name	Material	Colour	Weight (g)
170-044-186	HES3D-120-JIG	Polyacetal (POM)	Red	4

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP 3-WAY ADJUSTABLE CONCEALED HINGE HES3D-120-A100 100° Opening NEW

Latest Info

HES Hinge + Esprit

Passed Private 300K Cycle Test



KIDS DESIGN AWARD 2021

- Can limit opening angle when used in combination with door restrictors.
- Thin profile (21 mm) allows for shallow mortise.
- 3D Adjustment Post Installation: Adjust vertically, horizontally, and depth.
- For simplified door hanging, the hinge divides into two parts: one for the door-side and one for the jamb-side.
- Can temporarily be hung before fixing with screws.

INSTRUCTION | SCREW

Remarks

- Read all remarks on handling thoroughly before use.
- Please use the Selection Tool for HES Concealed Hinges to select a hinge.
- Please use with door restrictors or door stoppers to prevent doors from opening over 100°.
- When using with door dampers or door closers, please chose from the LDD-S (P.566), LDD-V (P.568), and LDC-N2 (P.572). Please note that the door weight should meet moment conditions of both door closers and door dampers. Verify all conditions before installation.
- When using a concealed door closers, the HES3D-160 is recommended.

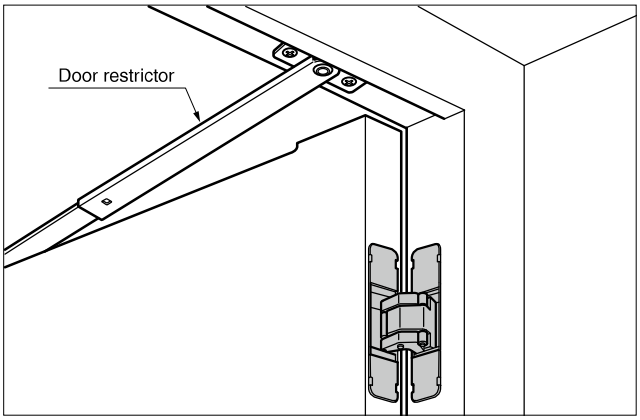
Parts Included

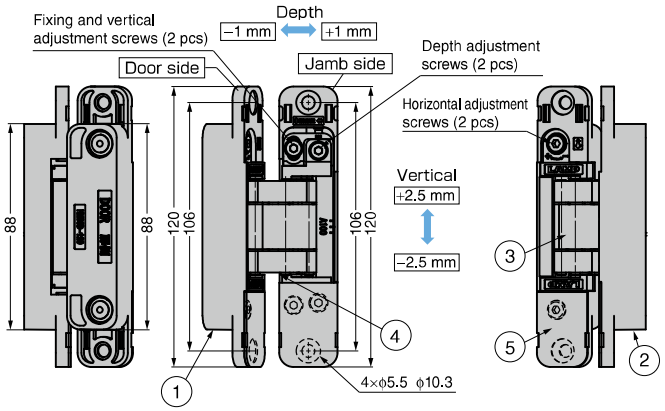
- Cross-recessed countersunk tapping screw 5×20 4 pcs (made of stainless steel)
- Hex key spanner 3

Optional Parts

- HES3D-120TMP, installation template (P.555)
  (This reusable jig allows for easy mortising of doors and jambs using routers.)
- HES3D-120BKT, bracket for sheet metal (P.549)

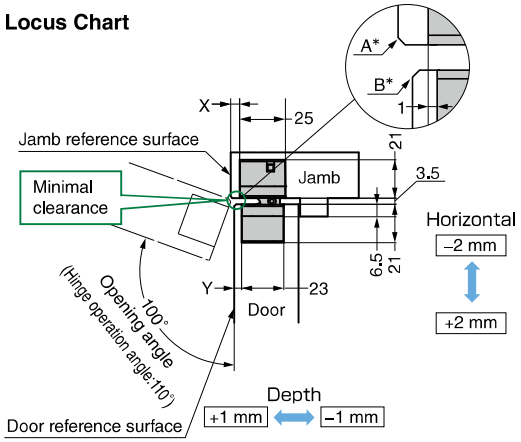
Using with a Door Restrictor





*The upper screw covers are removed in the drawing above.

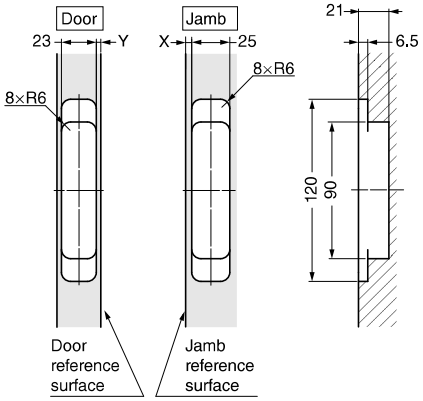
Locus Chart



Y : Door Clearance	B : Door Chamfering	X : Jamb Clearance	A : Jamb Chamfering
4	1	5	1
	2	6	2
		7	3
5	3	5	

The table above shows the clearance and chamfering required for the door to open properly.

Cut Out Dimensions



Selection Tool
HES Hinge
Example
Installation

No.	Part Name	Material	Finish/Colour		
			DC	DN	BL
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
②	Base Frame				
③	Arm				
④	Shaft	Stainless Steel	–	–	–
⑤	Screw Cover (Door side: 2 pcs) (Jamb side: 2 pcs)	ABS	Satin Chrome	Satin Nickel	Black

Item Code	Item Name	Finish	Door Specs			Load Capacity				Opening Angle	Box (pcs)	Carton (pcs)
			Width	Height	Thickness	N / 2 pcs	kgf / 2 pcs	N / 3 pcs	kgf / 3 pcs			
170-044-569	HES3D-120-A100DC	Silver	Max. 900	Max. 2400	Min. 29	294	30	392	40	100°	2	24
170-044-570	HES3D-120-A100DN	Champagne Gold										
170-044-571	HES3D-120-A100BL	Black										

Installation Template This is sold in pairs, one for the door and one for the jamb.

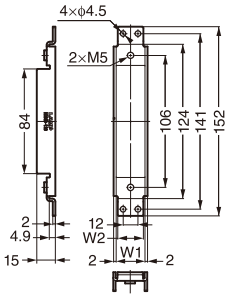
Item Code	Item Name	Material	Colour
170-024-569	HES3D-120-TMP	Methacrylic Resin (PMMA)	Clear

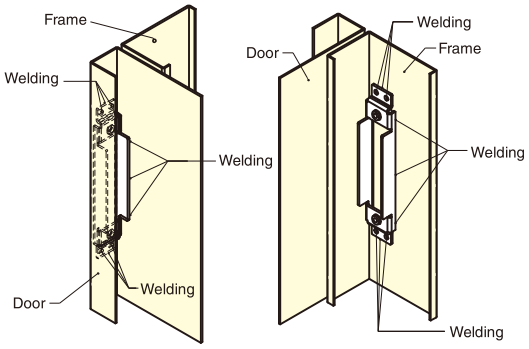
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP BRACKET OF HES3D-120 FOR SHEET METAL HES3D-120BKT

Latest Info

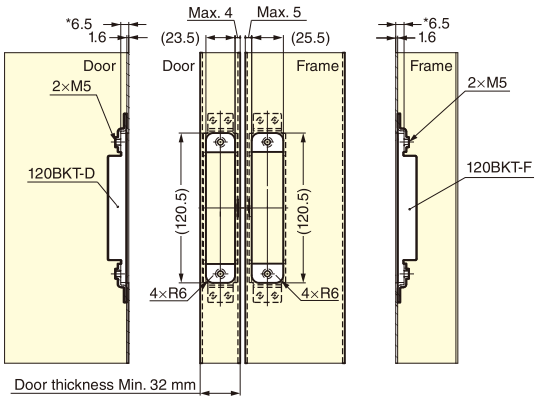






- Bracket to use HES3D-120 hinge,HES3D-120-A100 (P.547, P.548) with sheet metal.

Installation



*Dimensions: For flat surface in case of 1.6 mm thick sheet metal.

Item Code	Item Name	Type	Material	Finish/Colour	W1	W2	Weight	Carton
170-032-739	HES3D-120BKT-D	For Door	Steel (SPCC)	Zinc Chromate	23.3	20.5	58 g	50 pcs
170-032-740	HES3D-120BKT-F	For Frame			25.3	22.5	58 g	50 pcs

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP 3-WAY ADJUSTABLE CONCEALED HINGE HES3D-H120-36 Centre Door Mortise NEW

Latest Info

Passed Private 300K Cycle Test



KIDS DESIGN AWARD 2021

- For a 36mm thick door, the mortise is centred and allows it to function as either a left or right-handed door.
- Has increased load capacity of 50 kg with two hinges.
- Thin profile (21mm) allows for shallow mortise.
- 3D Adjustment Post Installation: Adjust vertically, horizontally, and depth.
- For simplified door hanging, the hinge divides into two parts: one for the door-side and one for the jamb-side.
- Can temporarily be hung before fixing with screws.

INSTRUCTION SCREW

Applications
- Interior doors

Parts Included
- Cross-recessed countersunk tapping screw 5 x 20 (4 pcs / hinge) stainless steel
- Hex key 3
- Cutout template

Sold Seperately
- HES3D-120-JIG (installation jig)

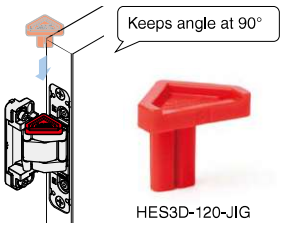
Remarks
- Read all remarks on handling thoroughly before use.
- Please use the Selection Tool for HES Concealed Hinges to select a hinge.
- When use with a door damper, the following dampers are recommended:
  - LDD-S (P.566)
  - LDD-V (P.568)
  - LDD-V100 (P.570)
  - LDC-N2 (P.572)

  * Each door damper has different load capacity. Please check that before use.
- Required number of hinges also depends on door stiffness and warpage. Please check actual conditions and performance before use.
- If door restrictors are needed, HES3D-120-A100 (P.548) is recommended.

Without Covers



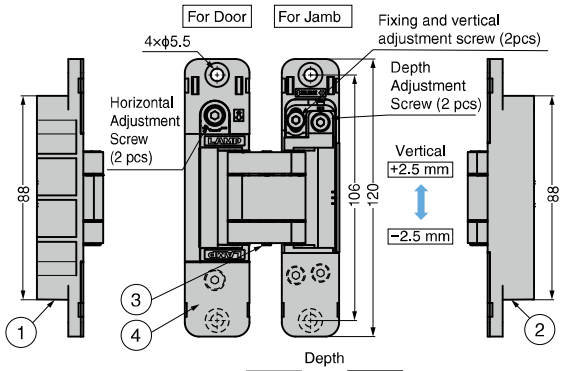
Easy Installation with Jig

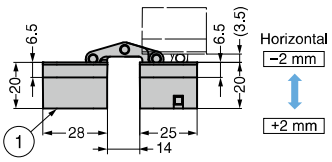


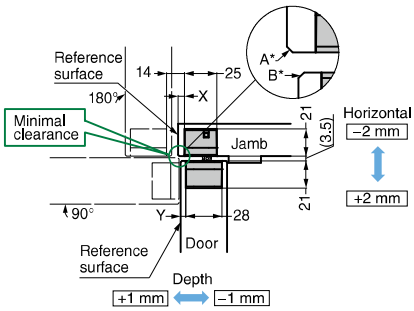
Feature

Selection Tool

HES Hinge



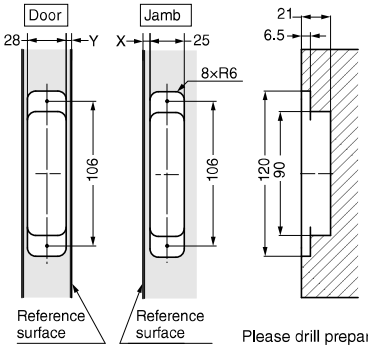




Door		Jamb	
Y : Machining Margin	B : Chamfering	X : Machining Margin	A : Chamfering
Max. 4	1	Max. 5	1
	2	6	2
		7	3
5	3	Max. 5	

The table shows how much margin and chamfering are required for the door to open properly.

Cut Out Dimensions



Please drill prepared holes for the tapping screws.

No.	Part Name	Material	Finish/Colour		
			DC	DN	BL
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black
②	Base Frame				
③	Shaft	Stainless Steel	–	–	–
④	Screw Cover (Door side: 2 pcs) (Jamb side: 2 pcs)	ABS	Silver	Champagne Gold	Black

Hinge

Item Code	Item Name	Colour	Door Specs			Load Capacity				Opening Angle	Box (pcs)	Carton (pcs)
			Width	Height	Thickness	N/2 pcs	kgf/2 pcs	N/3 pcs	kgf/3 pcs			
170-047-861	HES3D-H120-36DC	Silver	Max. 900	Max. 2700	Min. 34	490	50	637	65	180°	2	24
170-047-862	HES3D-H120-36DN	Champagne Gold										
170-047-863	HES3D-H120-36BL	Black										

Installation Jig sold separately

Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
170-044-186	HES3D-120-JIG	POM	Red	4	100	400

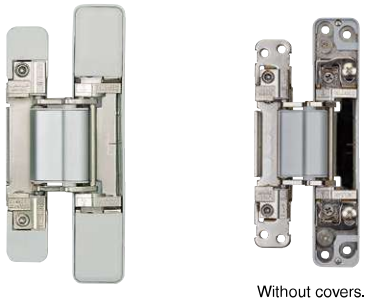
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP 3-WAY ADJUSTABLE CONCEALED HINGE HES3D-V135LGR

Latest Info

HES Hinge + Esprit

Passed Private 300K Cycle Test



Without covers.

- Thin profile allows for shallow mortise.
- 3D Adjustment Post Installation: Adjust vertically, horizontally, and depth.
- For simplified door hanging, the hinge divides into two parts: one for the door-side and one for the jamb-side.
- Unique seven link structure helps to prevent door sagging.

INSTRUCTION | SCREW

Remarks

- Read all remarks on handling thoroughly before use.
- Please use the Selection Tool for HES Concealed Hinges to select a hinge.
- The locus is different from other products of the same series. Please confirm the position where the door is opened by 90° on the left figure.
- Recommended for use with the following compatible door damper/door closers: LDD-S (P.566), LDD-V (P.568), and LDC-N2 (P.572). Verify all conditions before installation.
- Using with other door closers might lead to hinge damage.
- For using Sugatsune door closer, please install the door holder separately at the stop position.

Parts Included

- Binding head tapping screw 5 × 15

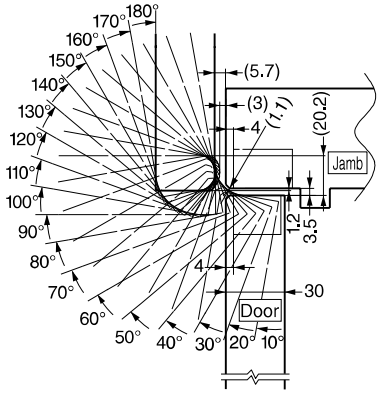
Option

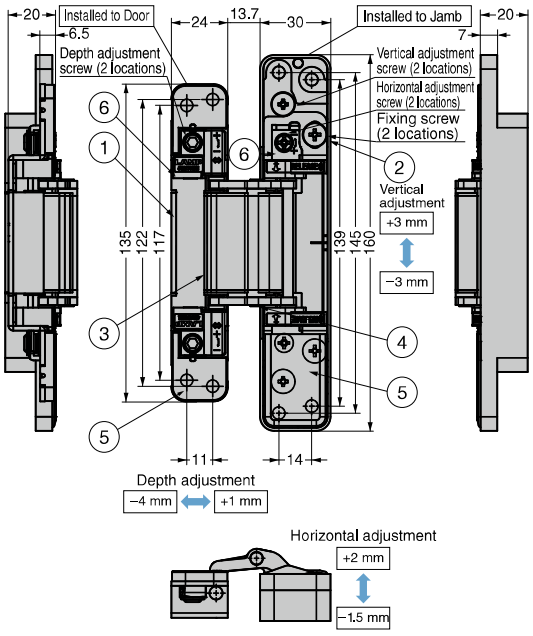
- Installation template HES3D-V135-TMP (P.555)

Installation | Selection Tool

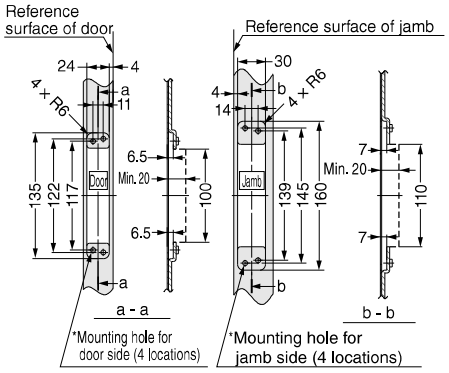
HES Hinge

Locus Chart

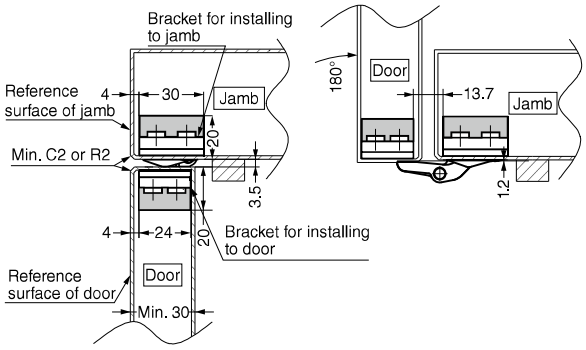


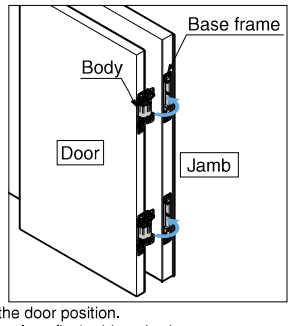


Cut Out Dimensions



Installation





Temporary Holding Feature

1. Hinge can be split into the body and base frame. Install the body to the door and the base frame to the jamb.
2. Push the hinge body horizontally into the base frame in the direction of the arrow. The door is held to the jamb duo to the temporary holding feature.
3. Temporarily tighten the fixing screws and adjust the door position.
4. After adjustment, tighten the fixing screws completely to fix the hinge body.

No.	Part Name	Material	Finish / Colour
①	Body	Steel	Nickel
②	Base Frame	POM	Light Grey
③	Arm	Aluminium Alloy	Anodized Silver
④	Shaft	Steel	Nickel
⑤	Cover	POM	Light Grey
⑥	Adjustment Block	Zinc Alloy (ZDC)	Nickel

Item Code	Item Name	Door Width	Door Height	Door Thickness	Jamb Thickness	Door Weight kg/2 pcs	Door Weight kg/3 pcs	Opening Angle	Weight (g)	Box (pcs)	Carton (pcs)
170-020-804	HES3D-V135LGR	Max. 900	Max. 2400	Min. 30	Min. 20	Max. 40	Max. 55	180°	400	2	24

Installation Template

This is sold in pairs, one for the door and one for the jamb.

Item Code	Item Name	Material	Colour
170-024-572	HES3D-V135-TMP	Methacrylic Resin	Clear

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP 3-WAY ADJUSTABLE CONCEALED HINGE HES3D-E160

Latest Info

HES Hinge + Esprit

Passed Private 300K Cycle Test





Without covers

- Thin profile allows for shallow mortise.
- 3D Adjustment Post Installation: Adjust vertically, horizontally, and in depth.
- For simplified door hanging, the hinge divides into two parts: one for the door-side and one for the jamb-side.
- Can temporarily be hung before fixing with screws.
- The structure is designed to prevent the door from sagging.
- Screw covers can be purchased separately in the event that the original covers are broken or lost. Contact us for details.

INSTRUCTION SCREW

Remarks

- Read all remarks on handling thoroughly before use.
- Please use the Selection Tool for HES Concealed Hinges to select a hinge.
- When using with a door damper and/or closer, select LDD-S (P.566), LDD-V (P.568) and/or LDC-N2 (P.572). Choose a door weight within the specified range for both the hinge and door damper/closer to ensure proper performance. Verify all conditions before installation.
- When using a closer with a stopper, be sure to use a door stopper too (floor mounting type, wall mounting type, etc.). Install the door stopper in a position further forward than the stopper of the closer, and between the centre and end of the door.

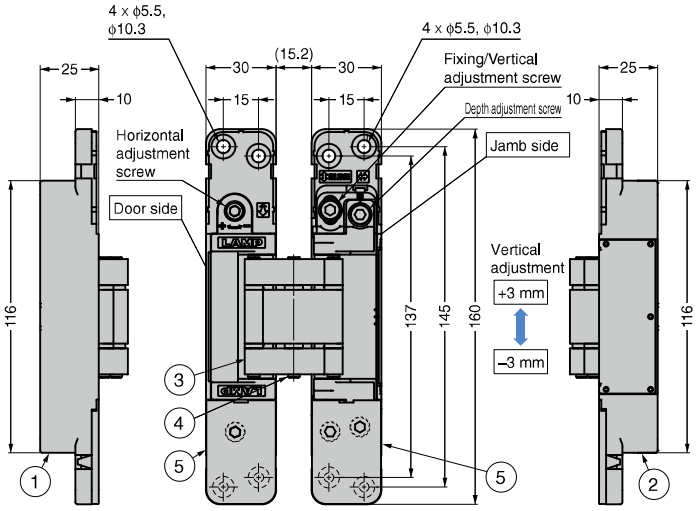
Parts Included

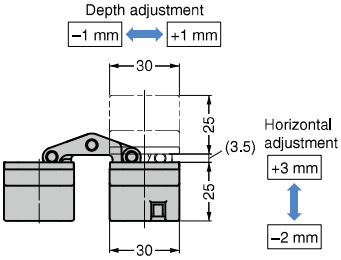
- Size 5 x 25 cross-recessed flat head tapping screws (stainless steel) (8 screws per hinge)
- Nominal size 4 hex bar spanner

Installation Selection Tool

HES Hinge

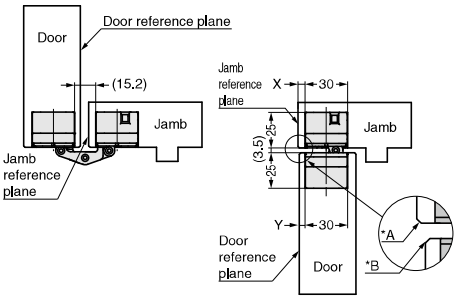
This figure shows this product with the upper screw cover removed.





No.	Part Name	Material	Finish/Colour		
			DC	DN	BL
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Baked Enamel Finish/ Black
②	Base Frame				
③	Arm	Aluminium Alloy			
④	Shaft	Stainless Steel	Plain	Plain	Plain
⑤	Screw Covers	ABS	Silver	Champagne Gold	Black

Installation Drawing

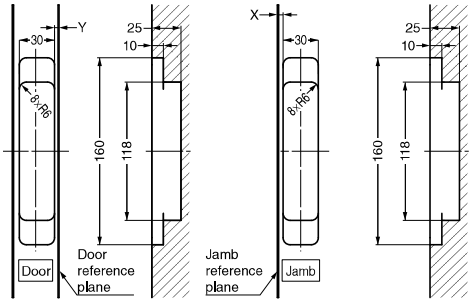


*The door and jamb need to be chamfered based on the machining margin.

Y: Door machining margin	B: Door chamfering	X: Jamb machining margin	A: Jamb chamfering
4 and under	1	5 and under	1
4 and under	2	6	2
4 and under	2	7	3
5	3	5 and under	3
5	3	6	4

(Reference values)

Cut Out Dimensions



Item Code	Item Name	Colour	Door Specs			Load Capacity				Opening Angle
			Width (mm)	Height (mm)	Thickness (mm)	N / 2 pcs	kgf / 2 pcs	N / 3 pcs	kgf / 3 pcs	
–	HES3D-E160DC	Silver	Max. 900	Max. 2400	Min. 36	539	55	686	70	180°
–	HES3D-E160DN	Champagne Gold								
–	HES3D-E160BL	Black								

Installation Template

This is sold singly, because they can be used on both the door and jamb.

Item Code	Item Name	Material	Colour
170-047-841	HES3D-E160-TMP	Methacrylic Resin (PMMA)	Clear

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

CONCEALED HINGE LOAD VALUES

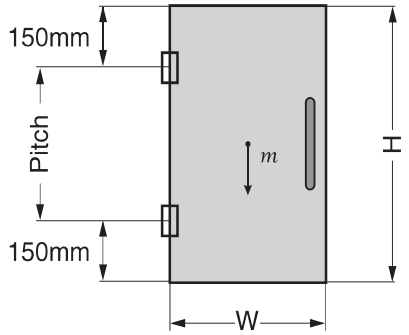
LAMP
HES3D-E160 : 2 pcs

Reference Table

Door Height (mm)	Door Width (mm) 750	800	850	900	950	1000	1050	1100	1150	1200	Hinge Pitch (mm)
2700	(kg) 55	55	55	55	55	55	55	55	55	55	2400
2650	55	55	55	55	55	55	55	55	55	55	2350
2600	55	55	55	55	55	55	55	55	55	55	2300
2550	55	55	55	55	55	55	55	55	55	50	2250
2500	55	55	55	55	55	55	55	55	55	50	2200
2450	55	55	55	55	55	55	55	55	50	50	2150
2400	**55**	**55**	**55**	**55**	55	55	55	55	50	50	2100
2350	**55**	**55**	**55**	**55**	55	55	55	50	50	40	2050
2300	**55**	**55**	**55**	**55**	55	55	55	50	50	40	2000
2250	**55**	**55**	**55**	**55**	55	55	50	50	40	40	1950
2200	**55**	**55**	**55**	**55**	55	55	50	50	40	40	1900
2150	**55**	**55**	**55**	**55**	55	50	50	40	40	40	1850
2100	**55**	**55**	**55**	**55**	55	50	40	40	40	40	1800
2050	**55**	**55**	**55**	**55**	50	50	40	40	40	40	1750
2000	**55**	**55**	**55**	**55**	50	40	40	40	40	40	1700
1950	**55**	**55**	**55**	50	50	40	40	40	40	40	1650
1900	**55**	**55**	50	50	40	40	40	40	40	30	1600
1850	**55**	**55**	50	50	40	40	40	40	30	30	1550
1800	**55**	50	50	40	40	40	40	30	30	30	1500
1750	**55**	50	40	40	40	40	40	30	30	30	1450

Indicates standard tested values present in our catalogue (passed 300,000 cycles in private cycle test).

Hinge position (for calculated load values):



The door's centre of gravity is assumed to be in the centre of the door. If a heavy handle is installed on the door, it will affect the calculation.

- The yellow section shows the HES3D-E160's standard specifications, as indicated in the Sugatsune catalogue.
- Values outside of the yellow section are for reference only, based on hinge resistance calculation. This does not guarantee optimal performance and Sugatsune recommends testing before final installation.
- Figures outside the standard specifications do not take durability or possible sagging of the door into account.
- In case of use outside the standard specifications, Sugatsune recommends leaving a larger gap between door and floor to allow for possible door sagging.
- Ensure that the door weight accounts for both the hinge and door closer specifications.
- The use of a door closer may significantly reduce the operational lifespan of the hinges and/or may cause them damage.

SUGATSUNE

CONCEALED HINGE LOAD VALUES

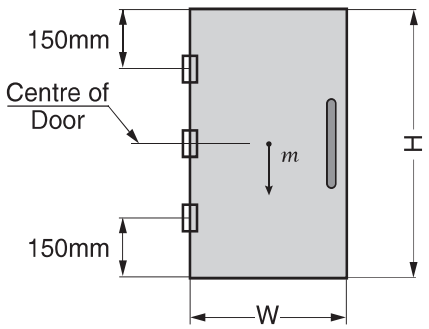
LAMP
HES3D-E160 : 3 pcs

Reference Table

Door Height (mm)	Door Width (mm) 750	800	850	900	950	1000	1050	1100	1150	1200	Hinge Pitch (mm)
2700	(kg) 70	70	70	70	70	70	70	70	70	70	2400
2650	70	70	70	70	70	70	70	70	70	70	2350
2600	70	70	70	70	70	70	70	70	70	70	2300
2550	70	70	70	70	70	70	70	70	70	60	2250
2500	70	70	70	70	70	70	70	70	70	60	2200
2450	70	70	70	70	70	70	70	70	60	60	2150
2400	**70**	**70**	**70**	**70**	70	70	70	70	60	60	2100
2350	**70**	**70**	**70**	**70**	70	70	70	60	60	60	2050
2300	**70**	**70**	**70**	**70**	70	70	70	60	60	60	2000
2250	**70**	**70**	**70**	**70**	70	70	60	60	60	50	1950
2200	**70**	**70**	**70**	**70**	70	70	60	60	60	50	1900
2150	**70**	**70**	**70**	**70**	70	60	60	60	50	50	1850
2100	**70**	**70**	**70**	**70**	70	60	60	60	50	50	1800
2050	**70**	**70**	**70**	**70**	60	60	60	50	50	50	1750
2000	**70**	**70**	**70**	**70**	60	60	50	50	50	50	1700
1950	**70**	**70**	**70**	60	60	60	50	50	50	50	1650
1900	**70**	**70**	60	60	60	50	50	50	50	40	1600
1850	**70**	**70**	60	60	60	50	50	50	40	40	1550
1800	**70**	60	60	60	50	50	50	50	40	40	1500
1750	**70**	60	60	60	50	50	50	40	40	40	1450

Indicates standard tested values present in our catalogue
(passed 300,000 cycles in private cycle test).

Hinge position
(for calculated load values):



The door's centre of gravity is assumed to be in the centre of the door. If a heavy handle is installed on the door, it will affect the calculation.

- The yellow section shows the HES3D-E160's standard specifications, as indicated in the Sugatsune catalogue.
- Values outside of the yellow section are for reference only, based on hinge resistance calculation. This does not guarantee optimal performance and Sugatsune recommends testing before final installation.
- Figures outside the standard specifications do not take durability or possible sagging of the door into account.
- In case of use outside the standard specifications, Sugatsune recommends leaving a larger gap between door and floor to allow for possible door sagging.
- Ensure that the door weight accounts for both the hinge and door closer specifications.
- The use of a door closer may significantly reduce the operational lifespan of the hinges and/or may cause them damage.

SUGATSUNE

LAMP STAINLESS STEEL CONCEALED HINGE HGS3D-S160SH With 3-way Adjustable Function NEW

Latest Info

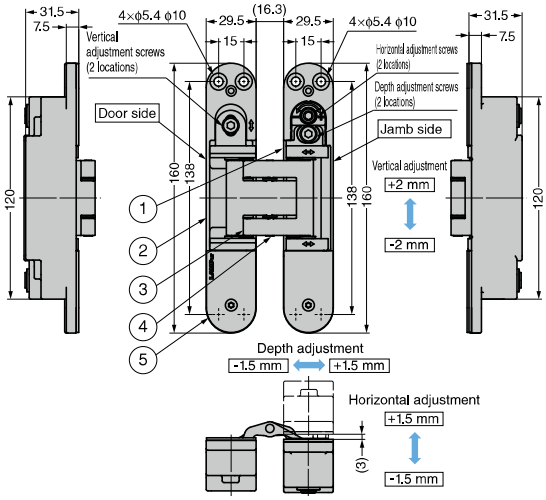
Passed Private 300K Cycle Test





With square screw cover (optional)

Figure shows top screw cover removed.



- Stainless steel structure with excellent corrosion resistance.
- 3D Adjustment Post Installation: Adjust vertically, horizontally, and depth.
- For simplified door hanging, the hinge divides into two parts: one for the door-side and one for the jamb-side.

INSTRUCTION | SUS

Application

- Residential doors, fire doors, facility doors, etc.

Parts Included

- Flat head tapping screw 5×40 (stainless steel)
- Hex key 4, 3, 2.5

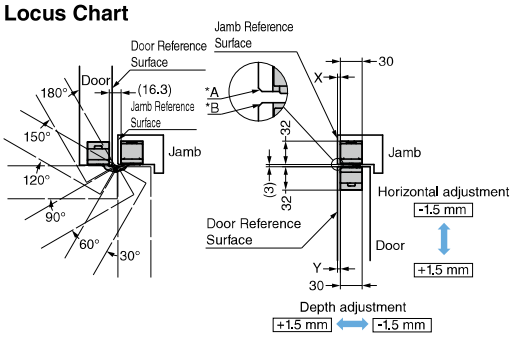
Optional Parts

- Square screw cover: Order when cut out is square (steel fittings, etc.).

Remarks

- Be sure to read the “Precautions for Use” (P.23).
- Please use the Selection Tool for HES Concealed Hinges to select a hinge.
- When using with a door damper and/or closer, select LDD-S (P.566), LDD-V(P.568), or LDC-N2 (P.572). Select a door weight within a range satisfying the conditions of both the hinge and the door damper and/or closer. Verify all conditions before installation.
- When using a closer with a stopper, be sure to use a door stopper as well (floor mounting type, wall mounting type, etc.). Install the door stopper further forward than the closer stopper, between the centre and edge of the door.
- If noise is generated during use, apply lubricant (grease) as needed.

Locus Chart

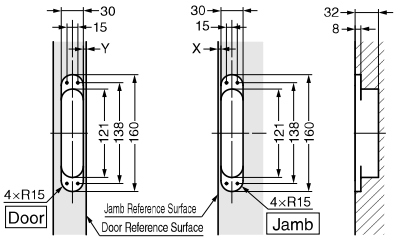


*The door and jamb must be chamfered in accordance with the machining margin, in order to open and close the door.

Y: Door machining margin	B: Door chamfering	X: Jamb machining margin	A: Jamb chamfering
4 or below	1	5 or below	1
	2	6	2
		7	3
5	3	5 or below	
		6	4

(Reference values)

Cut Out Dimensions



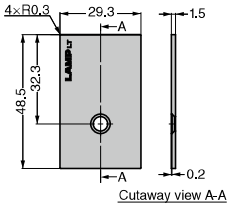
Selection Tool

HES Hinge

*When using the optional square screw cover, drill the first oval hole in both the door and the jamb as a square hole of width 30 × length 160 × depth 8.

Square Screw Cover (Optional Parts)





No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS304)	Plain
②	Base frame		
③	Arm		
④	Rotating Shaft		
⑤	Screw Cover (round type)		Satin

Body

Item Code	Item Name	Finish	Door Specs			Load Capacity				Opening Angle
			Width	Height	Thickness	N/2 pcs	kgf/2 pcs	N/3 pcs	kgf/3 pcs	
170-050-961	HGS3D-S160SH	Satin	Max. 900	Max. 2400	Min. 36	784	80	981	100	180°

Square Screw Cover (Optional Parts)

Item Code	Item Name	Material	Finish
170-050-962	HGS3D-S160SH-SQPLATE	Stainless Steel (SUS304)	Satin

Please contact your local agent or nearest Sugatsune subsidiary for detail and availability.

LAMP 3-WAY ADJUSTABLE CONCEALED HINGE HES3D-E190

Latest Info

HES Hinge + Esprit

Passed Private 300K Cycle Test





Without covers.

Selection Tool | Feature | Installation

HES Hinge

- Thin profile allows for shallow mortise.
- 3D Adjustment Post Installation: Adjust vertically, horizontally, and depth.
- For simplified door hanging, the hinge divides into two parts: one for the door-side and one for the jamb-side.
- Can temporarily be hung before fixing with screws.
- Has a fire safety rating of ANSI/UL 10C, CAN/ULC-S104
- Custom colours available on request. Please contact us for details.

INSTRUCTION | SCREW

Remarks

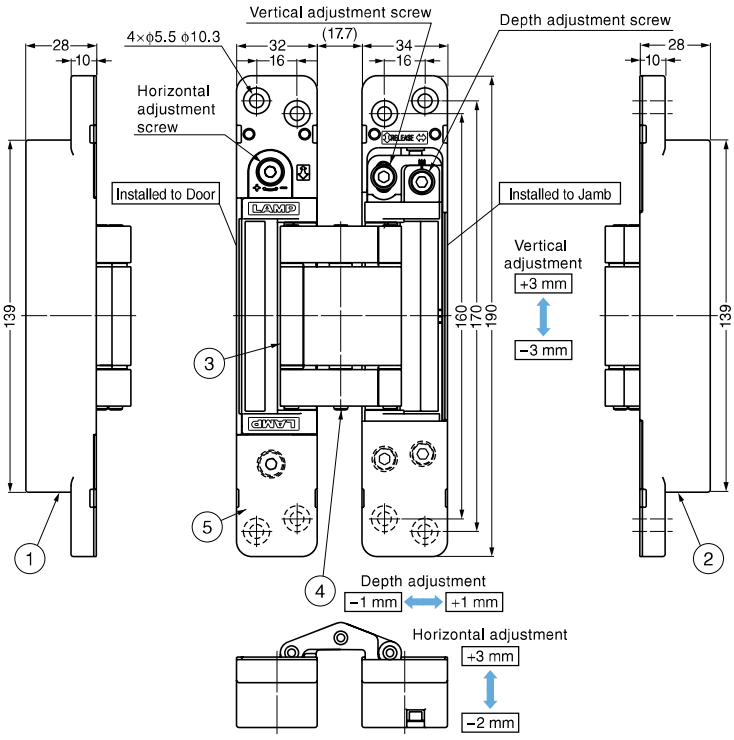
- Read all remarks on handling thoroughly before use.
- Please use the Selection Tool for HES Concealed Hinges to select a hinge.

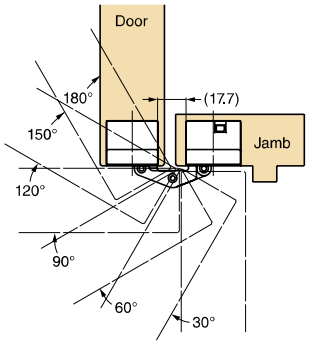
Parts Included

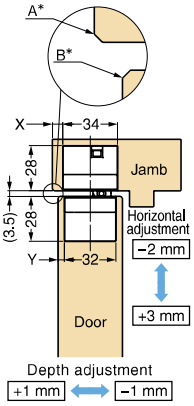
- Countersunk head screw 5×30 (4 pcs/hinge)
- Allen key size 4

Sold Separately

- Installation template HES3D-E190-TMP (P.555)
- Metal door bracket E190BKT (P.555)



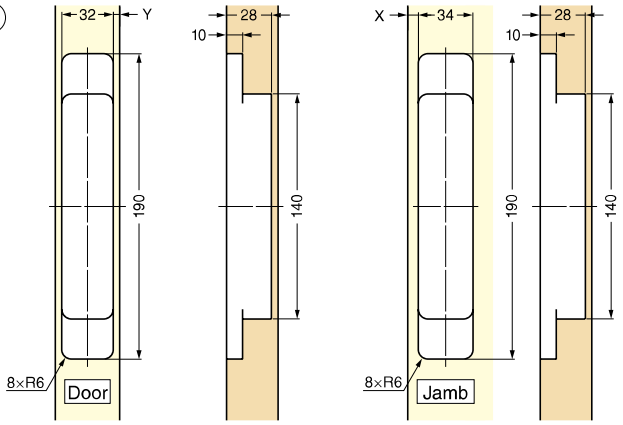




Please process the part (corner of door/jamb) of * marked on the drawing to C1 or more (or R1 or more).

Y: Door machining margin	B: Door chamfering	X: Jamb machining margin	A: Jamb chamfering
4 and under	1	6.5 and under	1
	2	7	2
		8	3
5	3	6.5 and under	2
		7	3
		8	4

Cut Out Dimensions



No.	Part Name	Material	Finish/Colour			
			DC	DN	BL	NI
①	Body	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black Enamel	Nickel
②	Base Frame	Zinc Alloy (ZDC)	Satin Chrome	Satin Nickel	Black Enamel	Nickel
③	Arm	Aluminum Alloy	Satin Chrome	Satin Nickel	Black Enamel	Nickel
④	Shaft	Stainless Steel	Plain	Plain	Plain	Plain
⑤	Cover	ABS	Silver	Champagne Gold	Black	Nickel

Item Code	Item Name	Colour	Door Specs					Opening Angle	Weight	Box	Carton
			Width	Height	Thickness	Weight					
–	HES3D-E190DC	Silver	Max. 900	Max. 2400	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,100 g	2 pcs	12 pcs
–	HES3D-E190DN	Champagne Gold	Max. 900	Max. 2400	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,100 g	2 pcs	12 pcs
–	HES3D-E190BL	Black	Max. 900	Max. 2400	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,100 g	2 pcs	12 pcs
170-033-568	HES3D-E190NI	Nickel	Max. 900	Max. 2400	Min. 38 mm	Max. 100 kg/2 pcs	Max. 125 kg/3 pcs	180°	1,100 g	2 pcs	12 pcs

For door height and width, please refer to the Reference Table (from the following pages) or Selection Tool.

Installation Template

This is sold in pairs, one for the door and one for the jamb.

Item Code	Item Name	Material	Colour
170-028-808	HES3D-E190-TMP	Methacrylic Resin (PMMA)	Clear

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

CONCEALED HINGE LOAD VALUES

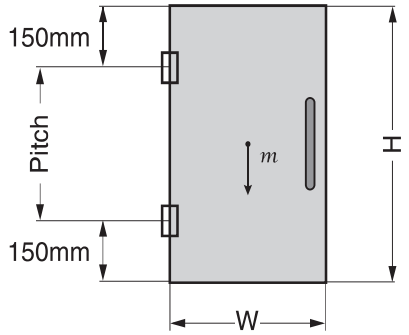
LAMP
HES3D-E190 : 2 pcs

Reference Table

Door Height (mm)	Door Width (mm) 750	800	850	900	950	1000	1050	1100	1150	1200	Hinge Pitch (mm)
2700	(kg) 100	100	100	100	100	100	100	100	100	100	2400
2650	100	100	100	100	100	100	100	100	100	100	2350
2600	100	100	100	100	100	100	100	100	100	100	2300
2550	100	100	100	100	100	100	100	100	100	90	2250
2500	100	100	100	100	100	100	100	100	100	90	2200
2450	100	100	100	100	100	100	100	100	90	90	2150
2400	100	100	100	100	100	100	100	100	90	90	2100
2350	100	100	100	100	100	100	100	90	90	80	2050
2300	100	100	100	100	100	100	100	90	90	80	2000
2250	100	100	100	100	100	100	90	90	80	80	1950
2200	100	100	100	100	100	100	90	90	80	80	1900
2150	100	100	100	100	100	90	90	80	80	80	1850
2100	100	100	100	100	100	90	80	80	80	70	1800
2050	100	100	100	100	90	90	80	80	70	70	1750
2000	100	100	100	100	90	80	80	80	70	70	1700
1950	100	100	100	90	90	80	80	70	70	70	1650
1900	100	100	90	90	80	80	70	70	70	60	1600
1850	100	100	90	90	80	80	70	70	70	60	1550
1800	100	90	90	80	80	70	70	70	60	60	1500
1750	100	90	80	80	70	70	70	60	60	60	1450

Indicates standard tested values present in our catalogue (passed 300,000 cycles in private cycle test).

Hinge position (for calculated load values):



The door's centre of gravity is assumed to be in the centre of the door. If a heavy handle is installed on the door, it will affect the calculation.

- The yellow section shows the HES3D-E190's standard specifications, as indicated in the Sugatsune catalogue.
- Values outside of the yellow section are for reference only, based on hinge resistance calculation. This does not guarantee optimal performance and Sugatsune recommends testing before final installation.
- Figures outside the standard specifications do not take durability or possible sagging of the door into account.
- In case of use outside the standard specifications, Sugatsune recommends leaving a larger gap between door and floor to allow for possible door sagging.
- Ensure that the door weight accounts for both the hinge and door closer specifications.
- The use of a door closer may significantly reduce the operational lifespan of the hinges and/or may cause them damage.

SUGATSUNE

CONCEALED HINGE LOAD VALUES

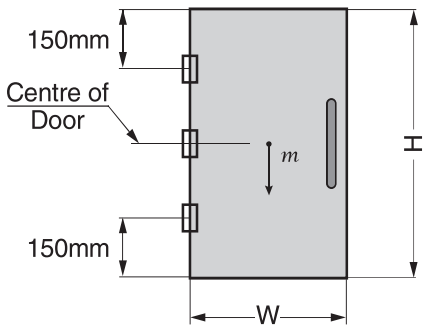
LAMP
HES3D-E190 : 3 pcs

Reference Table

Door Height (mm)	Door Width (mm) 750	800	850	900	950	1000	1050	1100	1150	1200	Hinge Pitch (mm)
2700	(kg) 125	125	125	125	125	125	125	125	125	125	2400
2650	125	125	125	125	125	125	125	125	125	125	2350
2600	125	125	125	125	125	125	125	125	125	125	2300
2550	125	125	125	125	125	125	125	125	125	120	2250
2500	125	125	125	125	125	125	125	125	125	120	2200
2450	125	125	125	125	125	125	125	125	120	110	2150
2400	**125**	**125**	**125**	**125**	125	125	125	125	110	110	2100
2350	**125**	**125**	**125**	**125**	125	125	125	120	110	110	2050
2300	**125**	**125**	**125**	**125**	125	125	125	110	110	100	2000
2250	**125**	**125**	**125**	**125**	125	125	120	110	110	100	1950
2200	**125**	**125**	**125**	**125**	125	125	110	110	100	100	1900
2150	**125**	**125**	**125**	**125**	125	120	110	110	100	100	1850
2100	**125**	**125**	**125**	**125**	125	110	110	100	100	90	1800
2050	**125**	**125**	**125**	**125**	120	110	100	100	90	90	1750
2000	**125**	**125**	**125**	**125**	110	110	100	100	90	90	1700
1950	**125**	**125**	**125**	120	110	100	100	90	90	90	1650
1900	**125**	**125**	120	110	110	100	90	90	90	80	1600
1850	**125**	**125**	110	110	100	100	90	90	80	80	1550
1800	**125**	120	110	100	100	90	90	80	80	80	1500
1750	**125**	110	110	100	100	90	90	80	80	70	1450

Indicates standard tested values present in our catalogue
(passed 300,000 cycles in private cycle test).

Hinge position
(for calculated load values):



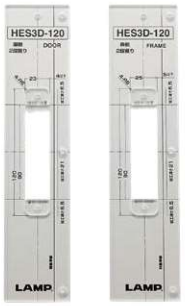
The door's centre of gravity is assumed to be in the centre of the door. If a heavy handle is installed on the door, it will affect the calculation.

- The yellow section shows the HES3D-E190's standard specifications, as indicated in the Sugatsune catalogue.
- Values outside of the yellow section are for reference only, based on hinge resistance calculation. This does not guarantee optimal performance and Sugatsune recommends testing before final installation.
- Figures outside the standard specifications do not take durability or possible sagging of the door into account.
- In case of use outside the standard specifications, Sugatsune recommends leaving a larger gap between door and floor to allow for possible door sagging.
- Ensure that the door weight accounts for both the hinge and door closer specifications.
- The use of a door closer may significantly reduce the operational lifespan of the hinges and/or may cause them damage.

SUGATSUNE

LAMP INSTALLATION TEMPLATE HES3D-TMP

Latest Info



For door For jamb

HES3D-120-TMP

- Installation template for HES3D hinges.

Remarks

- The HES3D-120TMP, HES3D-160-TMP, HES3D-E190-TMP, and HES3D-V135-TMP are sold in pairs, one for the door and one for the jamb.
- Recommended working tool is a straight bit with guide bearings of which guide diameter and bit diameter are the same.

Sold Separately

- HES3D-120 (P.547)
- HES3D-E160 (P.552)
- HES3D-E190 (P.554)
- HES3D-W190 (P.556)
- HES3D-V135LGR (P.551)

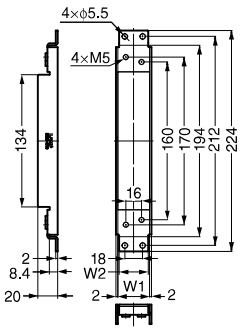
Installation

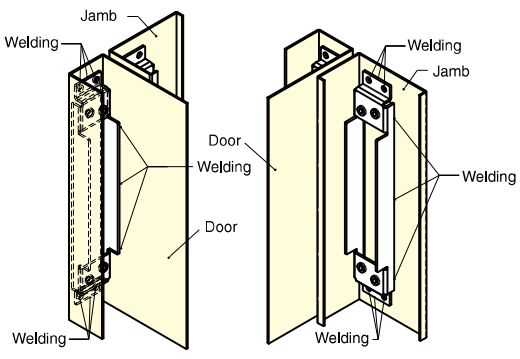
Item Code	Item Name	Applicable Hinge	Material	Colour
170-024-569	HES3D-120-TMP	HES3D-120	Methacrylic Resin (PMMA)	Clear
170-047-841	HES3D-E160-TMP	HES3D-E160	Methacrylic Resin (PMMA)	Clear
170-028-808	HES3D-E190-TMP	HES3D-E190	Methacrylic Resin (PMMA)	Clear
170-047-842	HES3D-W190-TMP	HES3D-W190	Methacrylic Resin (PMMA)	Clear
170-024-572	HES3D-V135-TMP	HES3D-V135LGR	Methacrylic Resin (PMMA)	Clear

LAMP BRACKET OF HES3D-E190 FOR SHEET METAL HES3D-E190BKT

Latest Info

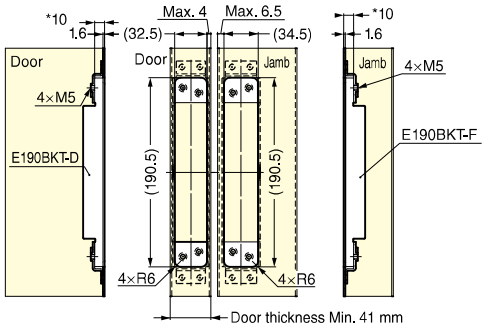






- Bracket to use HES3D-E190 hinge (P.554) with sheet metal.

Installation



*Dimensions: For flat surface in case of 1.6 mm thick sheet metal.

Item Code	Item Name	Type	Material	Finish/Colour	W1	W2	Weight	Carton
170-032-741	HES3D-E190BKT-D	For Door	Steel (SPCC)	Zinc Chromate	32.3	29.5	135 g	50 pcs
170-032-742	HES3D-E190BKT-F	For Frame			34.3	31.5	135 g	50 pcs

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP 3-WAY ADJUSTABLE CONCEALED HINGE HES3D-W190 Wide Throw NEW

Latest Info

Passed Private 300K Cycle Test


Silver


Champagne Gold


Without covers


Black


Nickel


With Angular Edge Cover

- Has a long arm for a wider throw. This allows for use on clad and thick doors.
- Thin profile allows for shallow mortise.
- 3D Adjustment Post Installation: Adjust vertically, horizontally, and depth.
- For simplified door hanging, the hinge divides into two parts: one for the door-side and one for the jamb-side.
- Can temporarily be hung before fixing with screws.
- Custom colours available on request. Please contact us for details.
- Replacement screw covers are also available. Please contact us.
- UL Rated, up to 3 Hours (DC, DN, and BL models only).
- Angular Edge Cover is now available.

INSTRUCTION SCREW

Remarks

- Read all remarks on handling thoroughly before use.
- Please use the Selection Tool for HES Concealed Hinges to select a hinge.

Parts Included

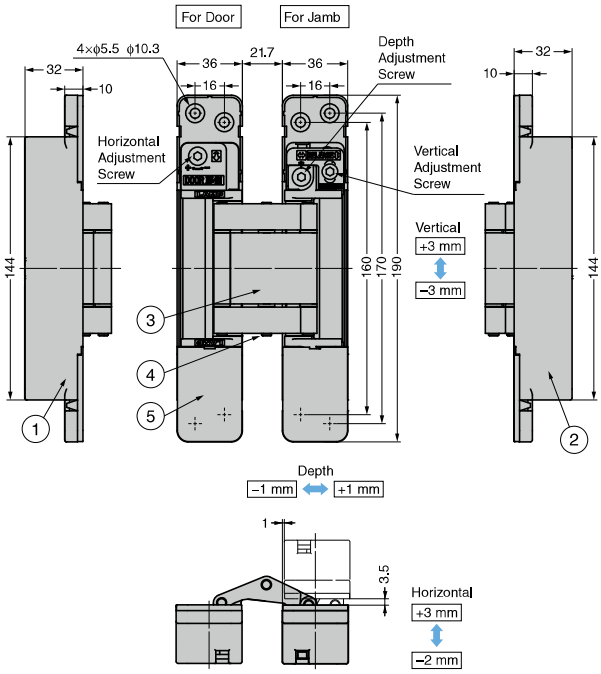
- Cross-recessed countersunk tapping screw 5 × 30 (8 pcs / hinge) stainless steel
- Hex key 4
- Cutout template

Optional Parts

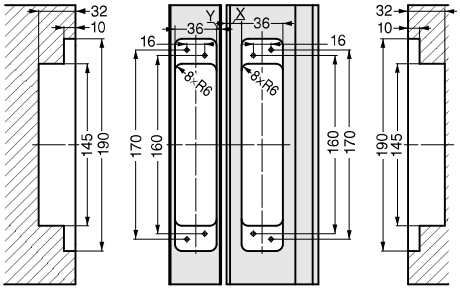
- Installation jig HES3D-W190-TMP (P.555)
- Angular Edge Cover
- Stainless steel screw cover (made to order)

Selection Tool — Installation

HES Hinge

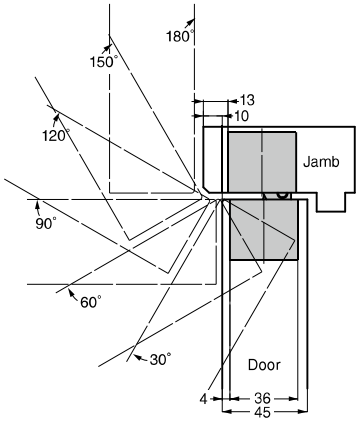


Cut Out Dimension



Please drill prepared holes for the tapping screws if the optional jig (HES3D-W190-TMP) is not used.

Locus Chart

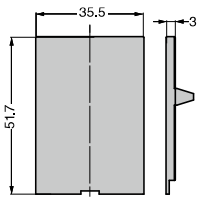


The example drawing shows the case that there is a step of 10 mm between the door and the jamb.

No.	Part Name	Material	Finish/Colour			
			DC	DN	BL	PN
①	Body	Zinc Alloy (ZDC)	Satin	Nickel	Enamel Black	Polished Nickel
②	Base Frame					
③	Arm	Aluminium Allloy				
④	Shaft	Stainless Steel	Plain	Plain	Plain	Plain
⑤	Screw Cover	ABS	Silver	Champagne Gold	Black	Polished Nickel

Angular Edge Cover (Optional Parts)



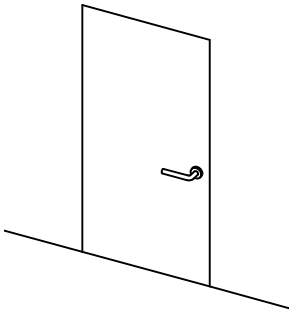




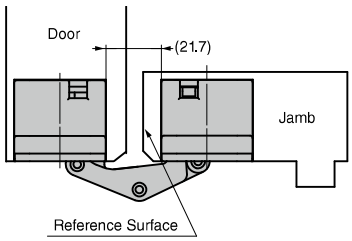
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

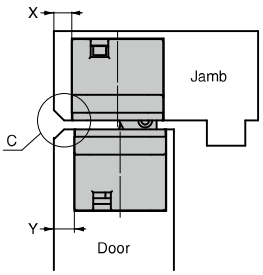
Flush Installation



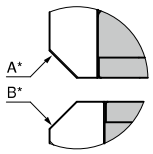
• Open



• Closed



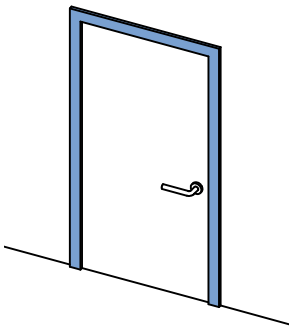
C (detail)



* Chamfering is required depending on clearance for proper door motion.

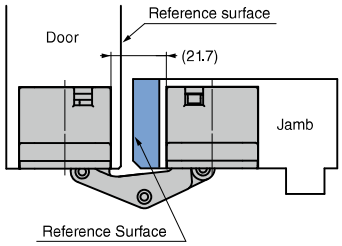
Y	B	X	A
Door Clearance	Door Chamfering	Jamb Clearance	Jamb Chamfering
4 and under	0	3 and under	0
5	1	4	1
6	2	5	2
7	3	6	3
8	4	7	4
9	6	8	6

Cladded Installation



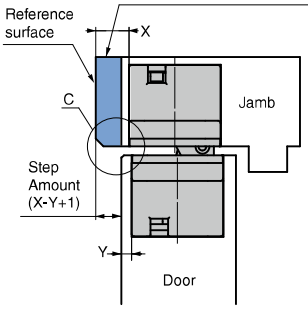
Compatible with doors that are not flush with the wall or frame.

• Open

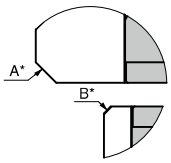


• Closed

If something is attached to a jamb, for example decorative sheets, please include the thickness into the X.



C (detail)



* Chamfering is required depending on clearance for proper door motion.

Y	B	X	A	X-Y+1
Door Clearance	Door Chamfering	Jamb Clearance	Jamb Chamfering	Step Amount
3	0	3 to 12	0	1 to 10
		13	1	11
		14	2	12
		15	4	13
4	1	3 to 10	0	0 to 7
		11	1	8
		12	2	9
		13	3	10
		14	4	11
5	2	3 to 6	0	-1 to 2
		7	1	3
		8	2	4
		9	3	5
		10	4	6
	3	11	4	7
		12	5	8
		13	6	9

Y	B	X	A	X-Y+1
Door Clearance	Door Chamfering	Jamb Clearance	Jamb Chamfering	Step Amount
6	3	3 to 6	0	-2 to 1
		7	1	2
		8	2	3
	4	9	3	4
		10	4	5
		11	5	6
		12	6	7
7	5	3 to 6	0	-3 to 0
		7	1	1
		8	2	2
		9	3	3
		10	5	4
		11	7	5
8	6	3 to 6	0	-4 to -1
		7	1	0
		8	3	1
		9	5	2
		10	7	3

Item Code	Item Name	Colour	Door Size			Load Capacity				Opening Angle	Weight (g)	Box (pcs)	Carton (pcs)
			Width	Height	Thickness	N/2pcs	kgf/2pcs	N/3pcs	kgf/3pcs				
–	HES3D-W190DC	Silver	Max. 915	Max. 2440	Min. 42	981	100	1230	125	180°	—	2	12
–	HES3D-W190DN	Champagne Gold										2	12
–	HES3D-W190BL	Black										2	12
170-047-904	HES3D-W190NI	Nickel										2	12

Installation Template

This is sold singly, because they can be used on both the door and jamb.

Item Code	Item Name	Material	Colour
170-047-842	HES3D-W190-TMP	Methacrylic Resin (PMMA)	Clear

Angular Edge Cover

Item Code	Item Name	Material	Colour
170-052-813	HES3D-W190SQC-DC	ABS	Silver
170-052-814	HES3D-W190SQC-BL		Black

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

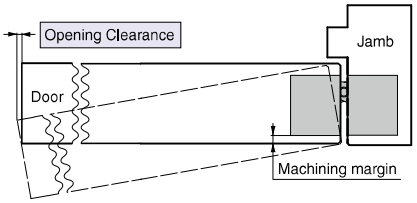
Required Opening Clearance for HES Hinges

About Opening Clearance

Opening clearance is the gap between the jamb and door required for door operation.
The HES hinges require it on the door's leading edge, and the required space varies depending on the door thickness (DT).

*The value does not consider changes over time. Please use this guide or referential purposes

HES3D



●HES3D-W190 (P.62)

Door Thickness	Machining Margin	Opening Clearance DT 600	DT 700	DT 800	DT 850	DT 915
42	3	1.4	1.2	1.0	1.0	0.9
50	4	1.9	1.6	1.4	1.3	1.2
60	4	2.7	2.3	2.1	1.9	1.8
70	4	3.8	3.2	2.8	2.6	2.5
80	4	5.0	4.3	3.7	3.5	3.3

●HES3D-V135LGR (P.56)

Door Thickness	Machining Margin	Opening Clearance DT 600	DT 700	DT 800	DT 850	DT 900
30	4	0.3	0.3	0.2	0.2	0.2
33	4	0.4	0.4	0.3	0.3	0.3
36	4	0.6	0.5	0.4	0.4	0.4
40	4	0.7	0.6	0.6	0.5	0.5
50	4	1.3	1.1	1	0.9	0.9

●HES3D-E190 (P.59)

Door Thickness	Machining Margin	Opening Clearance DT 600	DT 700	DT 800	DT 850	DT 900
38	3	1.0	0.9	0.7	0.7	0.7
50	4	1.8	1.5	1.3	1.2	1.2
60	4	2.6	2.2	2.0	1.8	1.7
70	4	3.6	3.1	2.7	2.5	2.4
80	4	4.8	4.1	3.6	3.4	3.2

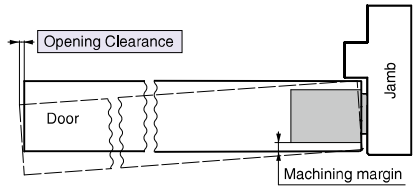
●HES3D-E160 (P.57)

Door Thickness	Machining Margin	Opening Clearance DT 600	DT 700	DT 800	DT 850	DT 900
36	3	0.9	0.8	0.7	0.6	0.6
40	4	1.0	0.9	0.8	0.7	0.7
50	4	1.7	1.5	1.3	1.2	1.2

●HES3D-120 (P.52)
●HES3D-120-A100 (P.53)
●HES3D-H120-36 (P.55)

Door Thickness	Machining Margin	Opening Clearance DT 600	DT 700	DT 800	DT 850	DT 900
29	3	0.6	0.5	0.4	0.4	0.4
33	4	0.7	0.6	0.5	0.5	0.5
36	4	0.9	0.7	0.6	0.6	0.6
40	4	1.1	0.9	0.8	0.8	0.7
50	4	1.8	1.5	1.3	1.3	1.2

HES2S



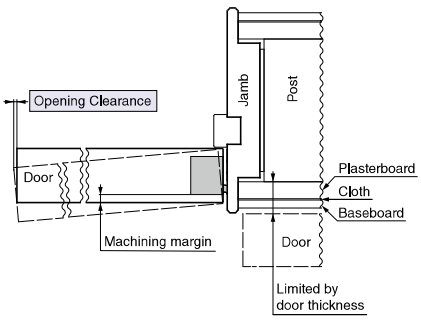
●HES2S-140-A125 (P.47)

Door Thickness	Machining Margin	Opening Clearance DT 600	DT 700	DT 800	DT 850	DT 900
38	4	0.8	0.6	0.6	0.5	0.5
40	5	0.8	0.7	0.6	0.6	0.5
50	5	1.4	1.2	1.1	1.0	0.9

●HES2S-150-A110 (P.48)

Door Thickness	Machining Margin	Opening Clearance DT 600	DT 700	DT 800	DT 850	DT 900
35	4	0.6	0.5	0.4	0.4	0.4
36	4.5	0.6	0.5	0.5	0.4	0.4
40	4.5	0.8	0.7	0.6	0.5	0.5

HES1F



●HES1F-140 (P.42)

Door Thickness	Machining Margin	Opening Clearance DT 600	DT 700	DT 800	DT 850	DT 900	Baseboard (reference)
36	4	1.5	1.3	1.1	1.0	1.0	Max. 9
40	6	1.6	1.4	1.2	1.1	1.1	Max. 9
45	8.5	1.8	1.5	1.3	1.3	1.2	Max. 7
50	11	2.0	1.7	1.5	1.4	1.3	Max. 4.5

* The values are calculated with the assumption that the mortise is positioned at the centre of the door, considering that the machining margin for the door should be 13 or less.
* When using the hinge on thick doors, the baseboard thickness may be limited.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Suggested Options // OEM Colour Coordination



Custom colours are available for the following models (min. 500 pcs required)

Available Models

- HES3D-70
- HES3D-90
- HES3D-120
- HES3D-E160
- HES3D-E190
- HES3D-W190

Please contact local representatives for details.

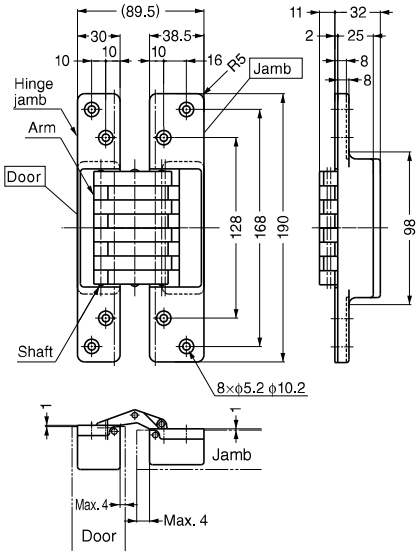
LAMP CONCEALED HINGE HES-3038BK

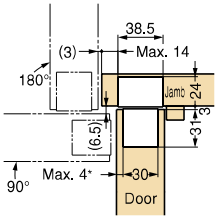
Latest Info

HES Hinge + Esprit

Passed Private 200K Cycle Test







- Finish available in rich polished brass or sleek stain chrome.

SCREW

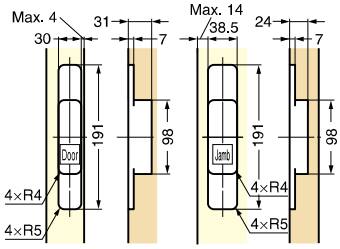
Remarks

- Recommended to use 3 pieces per door.
- Secure to check the dimension of * marked on bellow drawings.

Parts Included

- Countersunk head tapping screw 5×26

Cut Out Dimensions



Selection Tool

HES Hinge

Item Code	Item Name	Material	Finish	Door Width	Door Height	Door Thickness	Door Weight	Opening Angle	Weight	Box	Carton
170-091-013	HES-3038BK PB	Brass	Polished	Max. 900	Max. 2000	Min. 36	Max. 45 kg/3 pcs	180°	1360 g	2 pcs	20 pcs
170-091-015	HES-3038BK SC	Brass	Satin Chrome	Max. 900	Max. 2000	Min. 36	Max. 45 kg/3 pcs	180°	1360 g	2 pcs	20 pcs

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP ALUMINIUM FRAME SWING DOOR AF-25D

Latest Info



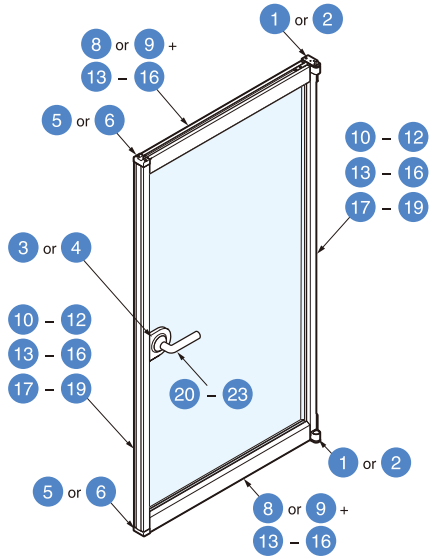
Door Weight	Max. 40 kg (including parts weight)
Glass Thickness	5, 6 mm
Door Width	Max. 900 mm (Max. 1000 mm for using intermediate support)
Door Height	Max. 2200 mm (Max. 3000 mm for using intermediate support)

- Great solution for apartments, residences, retail and public facilities. Can be used in many different layouts including inner partitions or walk-in closets.
- Uses a thick, durable aluminium frame which prevents deformation.
- Can be used on many different thicknesses and types of glass.

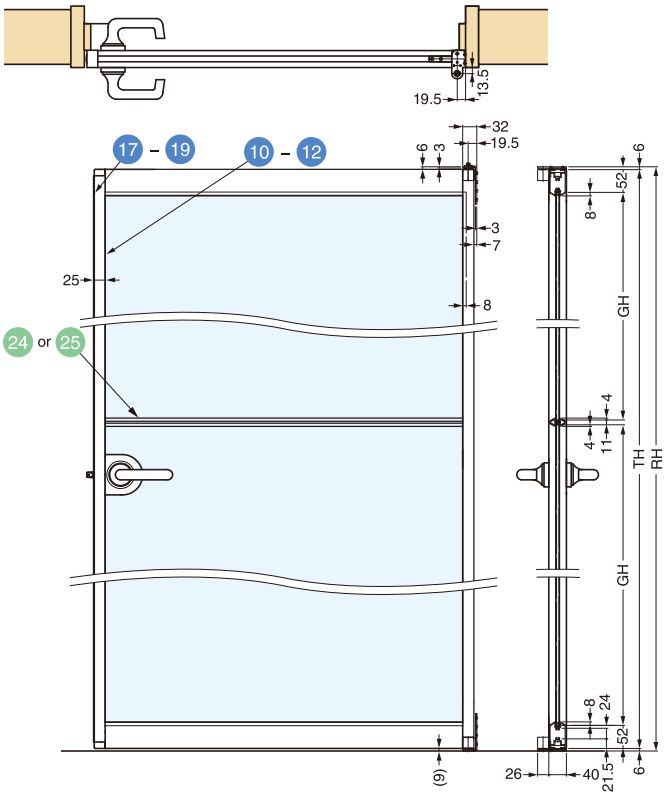
SCREW

Remarks

- Intermediate support not needed when door size is within H2200 mm x W900 mm. Please refer to below "necessary intermediate support quantity".
- Please use stopper parts & door stopper.



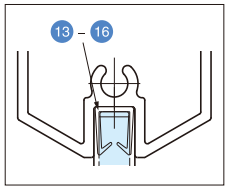
Installation (Glass door with one intermediate support)

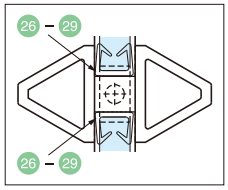


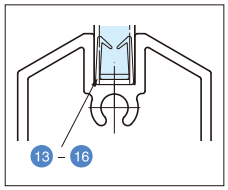
Necessary Intermediate Support Quantity

Intermediate support required when either door height or door width exceeds standard size. Pictures shown below are door size examples which require intermediate support. Glass thickness : 5 mm, Door weight : 70 kg

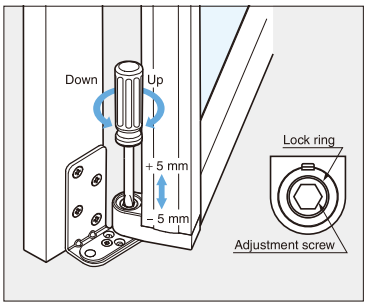
Support Qty.	No Need Any Support	2 Supports	3 Supports	4 Supports
Door Size	W900×H2200	Less than W800×H2500	Less than W750×H2700	Less than W700×H3000



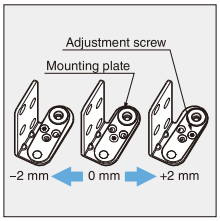




Vertical Adjustment



Horizontal Adjustment

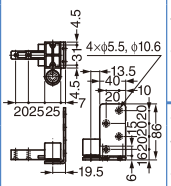
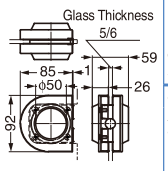
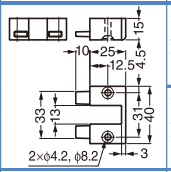


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

How to Order AF-25D

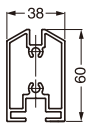
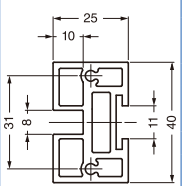
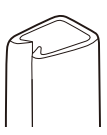
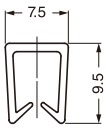
- Required Parts.... Pivot Hinge Handle Case + Side Frame, Vertical Frame, Gasket, Cover + Handle
- Please order according to the application (please refer to the 'Type' column for the application)..... Optional Parts

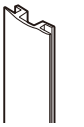
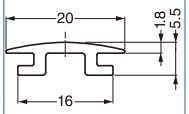
Pivot Hinge Handle Case — Required Parts (Select one from each)

No.	Type	Item Code	Parts	Dimensions	Type
1	Silver	170-121-109 Item Name AF-25-P10	Pivot Hinge (Non-handed) [Number of Doors Required] 1set(1pc each top & bottom)		• Material Zinc Alloy(ZDC)Stainless Steel (SUS304) • Finish Soft Chrome Plating/ Barrel Polished
2	Black	250-048-950 Item Name AF-25-P10-BL			• Material Zinc Alloy(ZDC)Stainless Steel (SUS304) • Finish Baked Enamel Finish
3	Silver	260-120-076 Item Name AF-25-P06	Handle Case  [Number of Doors Required] 1 set *Handle Case 3 4 When using, handle. 20 ~ 23 Please do not use the plastic ring case included.		• Material Aluminium Alloy(ADC) • Finish Cover part only Silver Paint Contents Case (front and back), Cover, Case Gasket Included Screw With countersunk head screw M5×12
4	Black	250-048-951 Item Name AF-25-P06-BL			• Material Aluminium Alloy(ADC) • Finish Cover part only. Black Paint Contents Case (front and back), Cover, Case Gasket Included Screw with countersunk head screw M5×12
5	Silver	250-120-056 Item Name AF-25-P04	Connector  [Number of Doors Required] 2pcs		• Material Zinc Alloy(ZDC) • Finish Soft Chrome Plating
6	Black	250-048-952 Item Name AF-25-P04-BL			• Material Zinc Alloy(ZDC) • Finish Baked Enamel Finish
7	–	250-181-198 Item Name AF-25-DS	Screw Set (Including 3 middle stiles) 	M6×30 Hex. Bolt : 8 pcs M4×30 Hex. Bolt : 6 pcs M4×25 Hex. socket countersunk head screw : 12 pcs M5×30 Countersunk Head Tapping Screw : 8 pcs	• Material Stainless Steel • Finish Plain

Side Frame Vertical Frame Gasket, Cover — Required Parts (Select one from each)

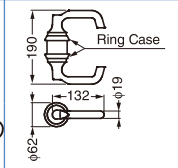
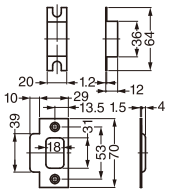
10 ~ 12, 17 ~ 19 Please specify the required length according to the door height.
13 ~ 16 Attach it to the end face of the glass and the side frame. 8 9 And Vertical Frame 10 ~ 12 I will wedge it into the groove. Please specify the required length and number according to the door size.

No.	Type	Item Code	Parts	Dimensions	Type
8	Silver 2000 mm	250-120-070 Item Name AF-25-W02	Horizontal Frame (2000mm)  [Number of Doors Required] 1pc (cut in half, used top and bottom) Weight: 1.4kg/1000mm		• Material Aluminium Alloy • Finish Matt Silver
9	Black 2000 mm	250-048-953 Item Name AF-25-W02-BL			
10	Silver 2500 mm	250-940-965 Item Name AF-25-W01-2.5M	Vertical Frame  [Number of Required for 1 Door]2pcs Weight: 1.1kg/1000mm		• Material Aluminium Alloy • Finish Anodized Matt
11	Silver 3000 mm	250-121-116 Item Name AF-25-W01-3M			
12	Black 3000 mm	250-048-954 Item Name AF-25-W01-3M-BL			
13	Light Grey 5mm For Glass 2500mm	250-940-960 Item Name AF-25-P02	Gasket  [Number of Doors Required] Depending on the door size.		• Material Elastomer (TPE)
14	Black 5mm For Glass 2500mm	250-050-784 Item Name AF-25-P02-BL			
15	Light Grey 6mm For Glass 3000mm	250-181-197 Item Name AF-25-P15			
16	Black 6mm For Glass 3000mm	250-048-955 Item Name AF-25-P15-BL			

No.	Type	Item Code	Component	Dimensions	Type
17	Light Grey 2500 mm	270-940-959 Item Name AF-25-P01-25	Concealing Cover  [Number of Doors Required]: 2 pcs		• Material Elastomer (TPE)
18	Light Grey 3000 mm	270-942-846 Item Name AF-25-P01-30			
19	Black 3000 mm	250-048-956 Item Name AF-25-P01-30-BL			

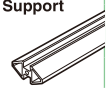
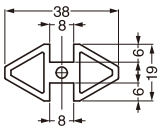
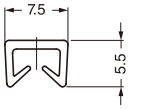
Handle — Required Parts (Select One)

20 ~ 23 Please specify your preferred design and lock.

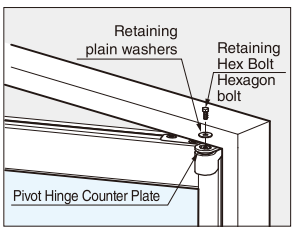
No.	Type	Item Code	Parts	Dimensions	Type
20	Latch (Silver)	260-170-381 Item Name HCSA138F11	Lever Handle A (With strike)  The diagram shows a latch. 	 The diagram shows everything except the latch. 	• Material Aluminium Alloy • Finish Anodized/ Sand Blast [Strike] • Material Steel/ Polyamide(PA) • Finish Plain/Black • Included Screw Cross Recessed Countersunk Tapping Screw 4x30: 2pcs The entrance lock is keyed different only.
21	Latch (Black)	260-050-786 Item Name HCSA138F11-BL			
22	Entrance Lock (Silver)	260-170-382 Item Name HCSA138SF11G			
23	Entrance Lock (Black)	260-050-787 Item Name HCSA138SF11G-BL			

Optional Parts

Please place your order according to your application. Please refer to the "Type" section below for the application.

No.	Type	Item Code	Parts	Dimensions	Type
24	Silver 2000 mm	250-940-967 Item Name AF-25-W03	Intermediate Support 		• Material Aluminium Alloy • Finish Anodized Application It's a Inside Frame for large doors.
25	Black 2000 mm	250-048-957 Item Name AF-25-W03-BL			
26	Light Grey 2500mm 5mm For Glass	250-940-961 Item Name AF-25-P03	Gasket for Intermediate Support 		• Material Elastomer (TPE) Application Intermediate Support 24 25 Use it as a set.
27	Black 2500mm 5mm For Glass	250-050-785 Item Name AF-25-P03-BL			
28	Light Grey 2500mm 6mm For Glass	250-181-196 Item Name AF-25-P16			
29	Black 2500mm 6mm For Glass	250-048-958 Item Name AF-25-P16-BL			

[Axis Slippage Prevention Feature]



- By attaching a retaining plain washer and a retaining hexagon bolt only to the top surface of the pivot hinge, you can prevent the door from falling off.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Zwei L LEVER HANDLE / HINGE FOR GLASS DOOR ZL-1601, ZL-1702

Latest Info



Concept

Selection Tool

Glass Hinge



Hinge ZL-1702 (P.188)

Suitable Glass : Tempered Glass
Door Thickness : 8,10 mm
Max Door Width : 900 mm
Max Door Weight : 50 kg
Material : SUS316
Finish : Zwei L Finish

- Superior finish of Mirror/Satin.

SUS316 SCREW







ZL-1601-1+ZL-1103

Lever Handle

Item Code	Item Name	Weight	Box
260-177-001	ZL-1101	1.2 kg	1 pair

Lever Handle

Item Code	Item Name	Weight	Box
260-177-002	ZL-1102	1.1 kg	1 pair

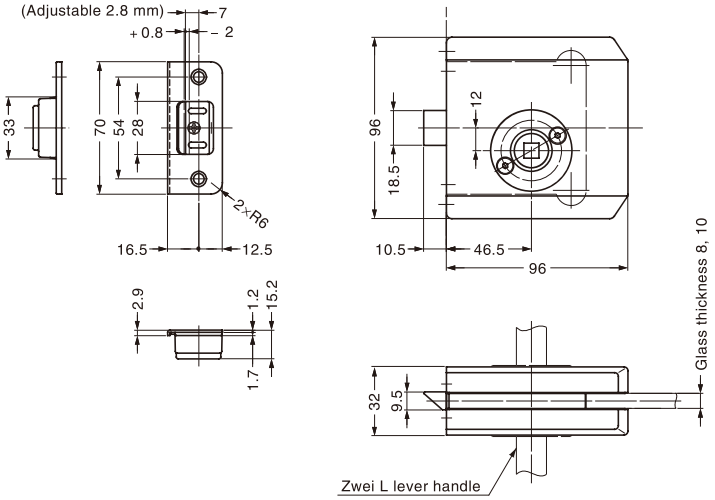
Lever Handle+Case Latch ZL-1601

Item Code	Item Name	Weight	Box
260-025-580	ZL-1601-1+ZL-1103	2.8 kg	1 set
260-025-581	ZL-1601-2+ZL-1103		

2 handles and 1 case latch included per set.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Case Latch

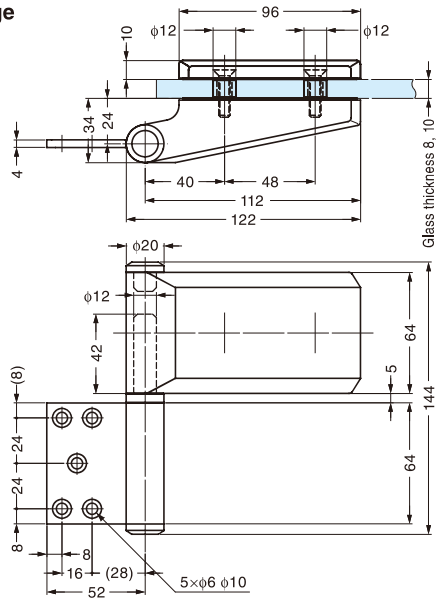


Item Code	Item Name	Type
260-177-000	ZL-1601-1	Right hand
260-170-783	ZL-1601-2	Left hand

Parts Included

- Countersunk head screw 3.5×22 (SUS)
- Screw M4×12 (SUS)
- Allen key

Hinge

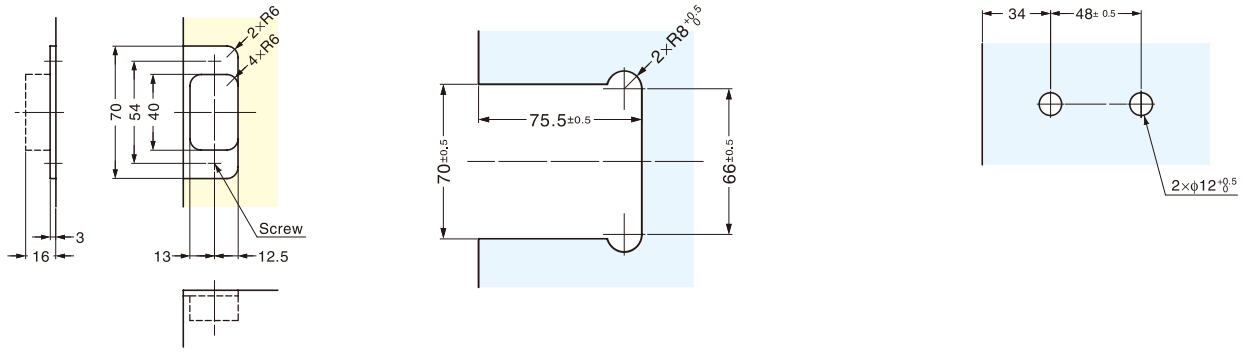


Item Code	Item Name
170-183-400	ZL-1702

Parts Included

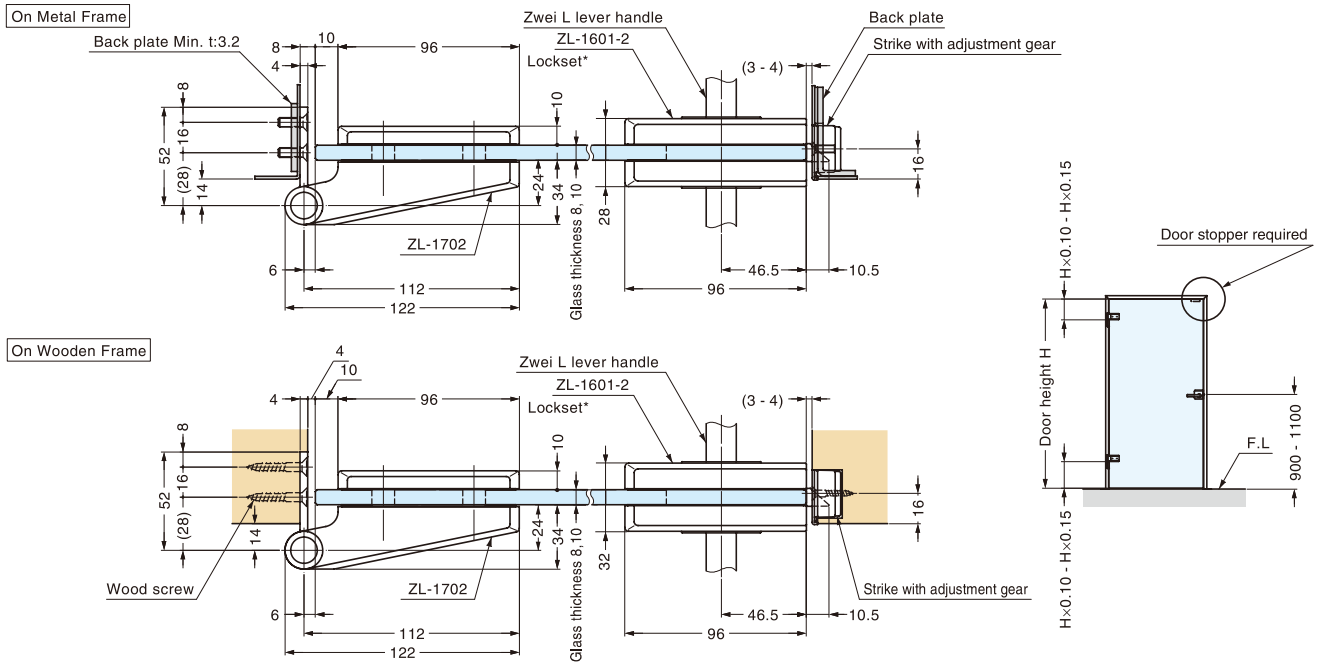
- Countersunk head screw 4.8×32 (SUS)
- Screw M5×16 (SUS)
- Allen key

Cut Out Dimensions



Installation

Left hand opening is shown.



* Use ZL1601-1 for right hand opening.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP DAMPER CATCH DC-200

Latest Info



- Damper and catch combination for sideways opening doors.
- Prevents doors from slamming.
- Holds doors in closed position.
- Easy to install by simply aligning body with the interior wall.
- Non-handed.
- Can handle doors up to 40 kg. (When using DC-200 - 40).
- Strike can be adjusted post-installation: horizontally ±5 mm, vertically ±4 mm.

Recommended hinges

- Heavy Duty Concealed Hinge J95 (With catch type)
- 3way Adjustable Concealed Hinge HES3D-90
- Single axis furniture hinges

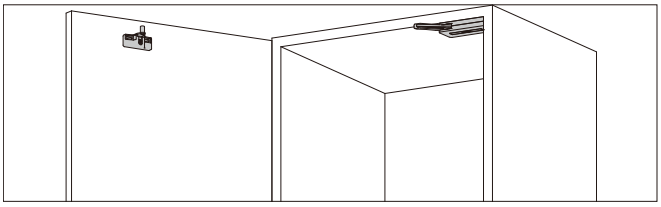
Caution

- The screws for installing on sheet metal are not included. We recommend the following screws:
  Recommended screws for body: Cross binding head M4 × 30
  Recommended screws for counter plate: Cross binding head M4 × 15
- Do not install to body or strike to hollow surfaces.
- If there is a large resistant force during closing, the door may not close fully.

Parts included

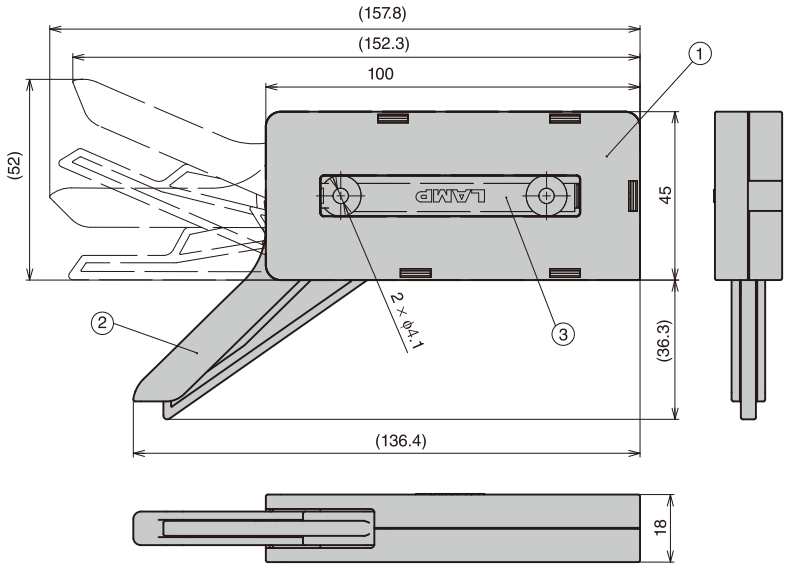
- Body Cover
- Counter
- Screws to attach body: 3.5 × 30
- Screws to attach counter: 3.5 × 15

Installation Example

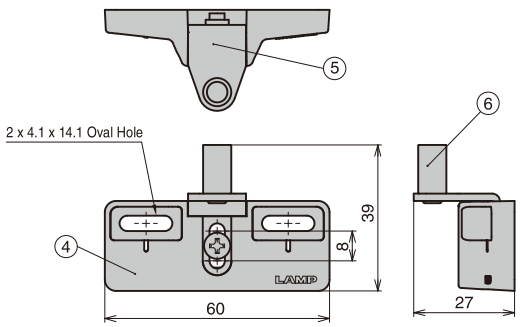


Attach to the interior of the cabinet.

Body



Counter Plate

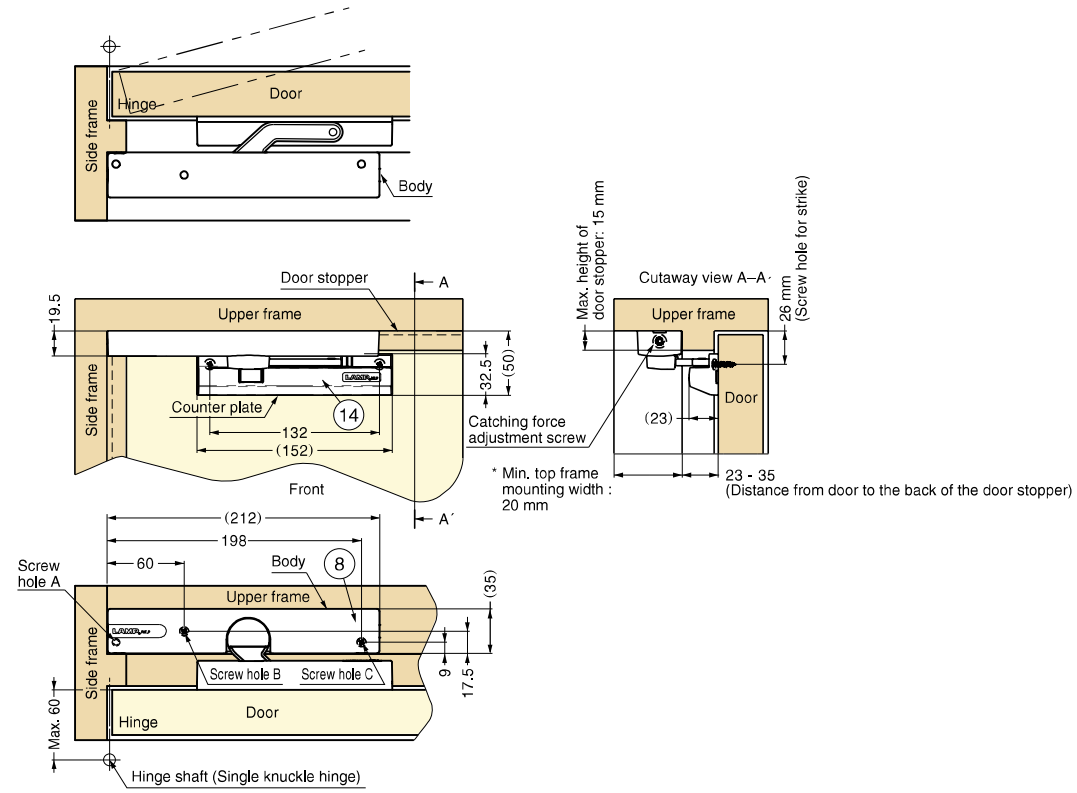


No.	Item Name	Materials	Finish/Colour
①	Body	PC/ABS	White / Black
②	Arm	PA	White / Black
③	Body Cover	ABS	White / Black
④	Counter	PC/ABS	White / Black
⑤	Counter Plate	Steel (SPCC)	Nickel Plating
⑥	Bumper	Elastomer	Gray

Item Code	Item Name	Colour	Door Width	Door Height	Load Capacity (kg)	Weight (g)
140-043-604	DC-200-25WT	White	450 - 900	Under 2400	7 - 25	105
140-043-605	DC-200-25BL	Black				
140-043-606	DC-200-40WT	White			25 - 40	
140-043-607	DC-200-40BL	Black				

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation



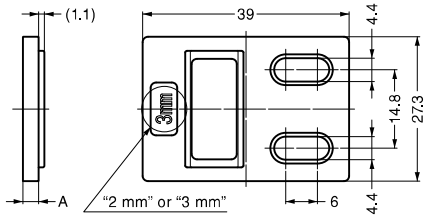
*When the distance from door to the back of the door stopper is 20 mm - 25 mm, please use the screw hole A and C.

LAMP SPACER FOR LDD-S LDD-S-P

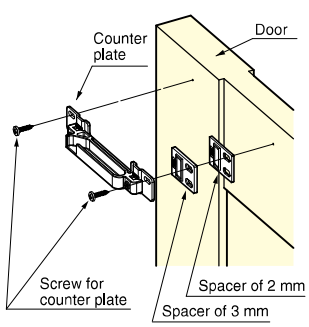
Latest Info

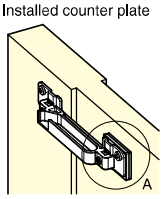
- Two types available: 2 mm thickness and 3 mm thickness.
- Can be used for Max. 6 mm thickness gap.

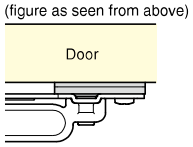


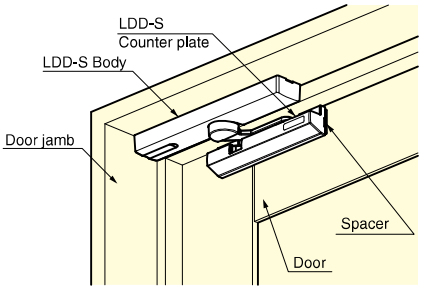


Installation (In case of 5 mm thickness gap)



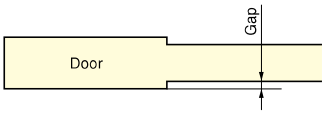






Remarks Before Installation

Check the gap of the door surface and choose the suitable spacer (combination of spacers).



Part Name	Material	Colour
Body	ABS	Black

Item Code	Item Name	A	Weight	Box	Carton
270-021-019	LDD-S-P2BL	2	2 g	100 pcs	1000 pcs
270-021-020	LDD-S-P3BL	3	3 g	100 pcs	1000 pcs

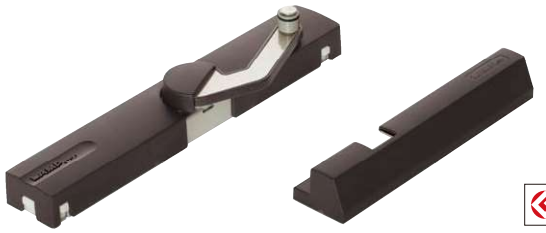
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP DOOR DAMPER LDD-S Surface mount type

Latest Info

Lapcon

Passed Private 100K Cycle Test
Soft-close



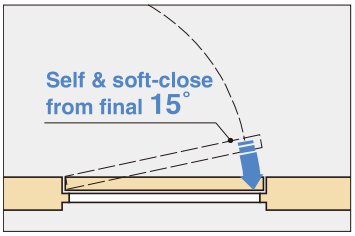
GOOD DESIGN

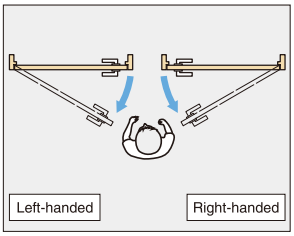
Right-handed shown.

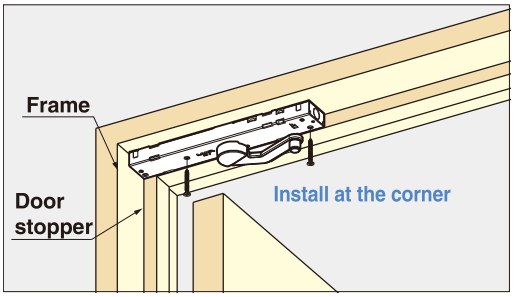
- Surface mount that can be retrofitted onto current door installations.
- Easy to align to proper positioning, speeding up installation.
- Slim profile (body height only 16 mm) can handle doors up to 40 kg in weight.
- Self and soft-closes within a 15° radius of closing. Closes gently, preventing slamming.
- Doors feel lighter to open compared to standard door closers.
- Counter plate position can be adjusted after installation.
- Damper force can be adjusted post-installation.
- Recommended Door Specifications:
  Width : Max. 900 mm
  Weight : 15 - 40 kg
- Available in 4 colours to match your door: White (WT), Light Grey (LGR), Light Brown (LBR) or Dark Brown (DBR).
- Recommended hinge: HES series (P.534-)











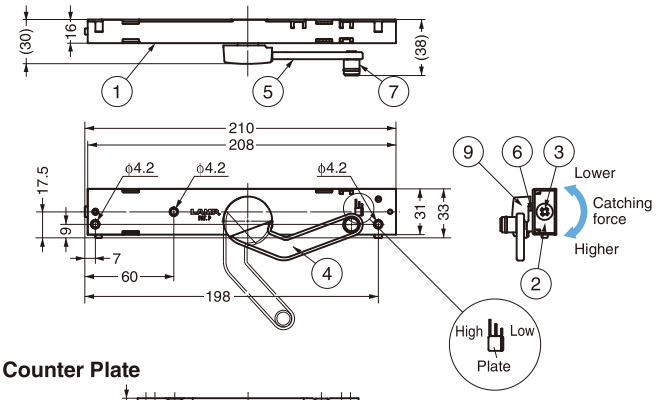
INSTRUCTION SCREW

Feature Installation

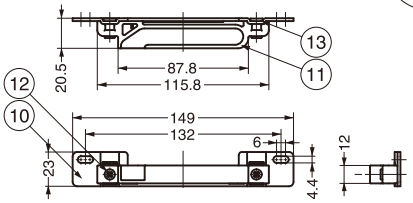
Parts Included

- Countersunk head tapping screw 3.5×30
- Binding head tapping screw 4×16

Body



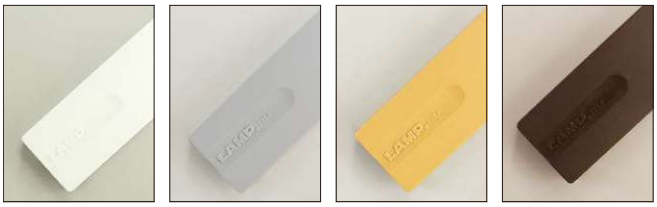
Counter Plate



Right-handed shown.

No.	Part Name	Material	Finish/Colour
①	Case	Steel (SGCC)	Chromate
②	Block	Polyacetal (POM)	Natural
③	Catching Force Adjustment Screw	Steel	Chromate
④	Arm	Stainless Steel (SUS304)	Plain
⑤	Arm Spacer	Polyacetal (POM)	(As Left)
⑥	Arm Axis	Zinc Alloy (ZDC)	Chromate
⑦	Roller	Polyacetal (POM)	Grey
⑧	Body Cover	ABS	(As Left)
⑨	Arm Cover	ABS	(As Left)
⑩	Counter Plate	Steel (SPCC)	Chromate
⑪	Guide	Zinc Alloy (ZDC)	Chromate
⑫	Screw	Steel (SWCH)	Nickel
⑬	Nut	Steel (SPCC)	Nickel
⑭	Counter Plate Cover	ABS	(As Left)

Available Colours

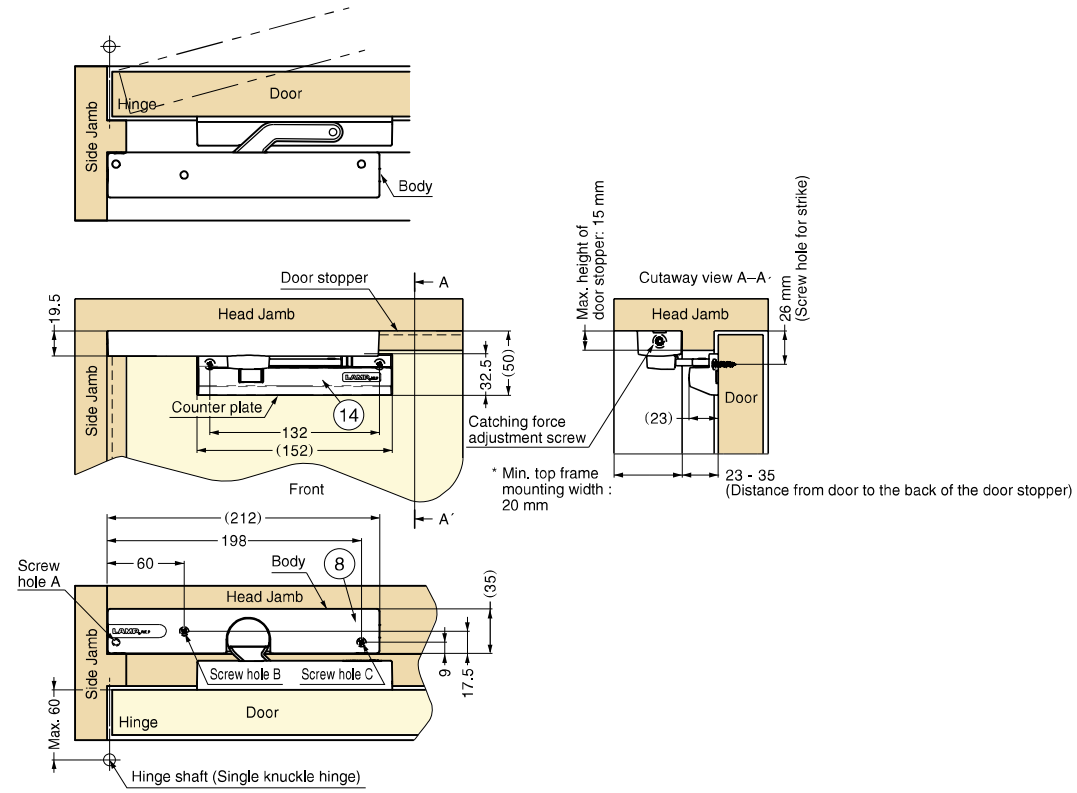


White | Light Grey | Light Brown | Dark Brown

Item Code	Item Name	Colour	Type	Door Width	Door Weight	Weight	Carton
270-018-984	LDD-S-RWT	White	Right-handed	Max. 900	15 - 40 kg	550 g	20 pcs
270-018-985	LDD-S-LWT	White	Left-handed			550 g	20 pcs
270-018-986	LDD-S-RLGR	Light Grey	Right-handed			550 g	20 pcs
270-018-987	LDD-S-LLGR	Light Grey	Left-handed			550 g	20 pcs
270-018-988	LDD-S-RLBR	Light Brown	Right-handed			550 g	20 pcs
270-018-989	LDD-S-LLBR	Light Brown	Left-handed			550 g	20 pcs
270-018-990	LDD-S-RDBR	Dark Brown	Right-handed			550 g	20 pcs
270-018-991	LDD-S-LDBR	Dark Brown	Left-handed			550 g	20 pcs

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation



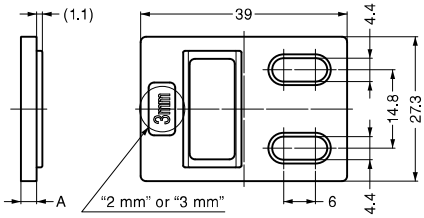
*When the distance from door to the back of the door stopper is 20 mm - 25 mm, please use the screw hole A and C.

LAMP SPACER FOR LDD-S LDD-S-P

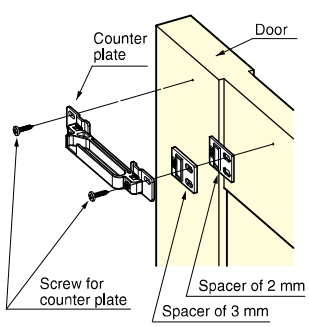
Latest Info

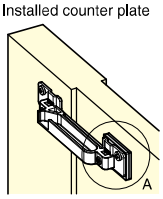


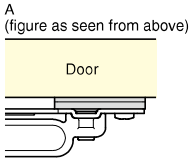
- Two types available: 2 mm thickness and 3 mm thickness.
- Can be used for Max. 6 mm thickness gap.

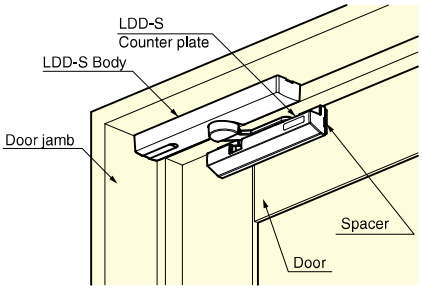


Installation (In case of 5 mm thickness gap)



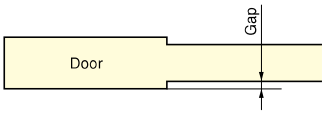






Remarks Before Installation

Check the gap of the door surface and choose the suitable spacer (combination of spacers).



Part Name	Material	Colour
Body	ABS	Black

Item Code	Item Name	A	Weight	Box	Carton
270-021-019	LDD-S-P2BL	2	2 g	100 pcs	1000 pcs
270-021-020	LDD-S-P3BL	3	3 g	100 pcs	1000 pcs

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP DOOR DAMPER LDD-V Concealed type

Latest Info

Lapcon

Passed Private 100K Cycle Test

Soft-close



GOOD DESIGN

- Concealed type that is hidden from view when door is closed.
- Self and soft-closes within a 10° radius of closing. Closes gently, preventing slamming.
- Doors feel lighter to open compared to standard door closers.
- Closing speed adjustable post-installation.
- Counter plate has 3-way adjustment post-installation.
- 2011 Good Design Award Winner
- Recommended Door Specifications:
  Thickness : Min. 33 mm
  Width : Max. 900 mm
  Weight : 15 - 40 kg
- For doors 40-100 kg, please use LDD-V100. Surface mount without mortise type LDD-S also available.
- Recommended hinge: HES series (P.534-)
- Adjustment Jig LDD-V-JIG & Template LDD-V-TMP available (P.569).

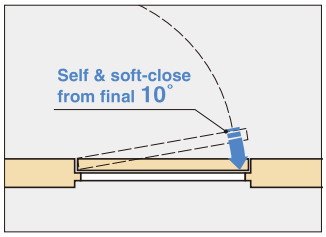
Right-handed

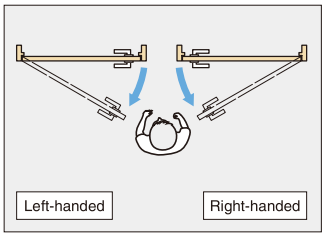


INSTRUCTION SCREW

Parts Included

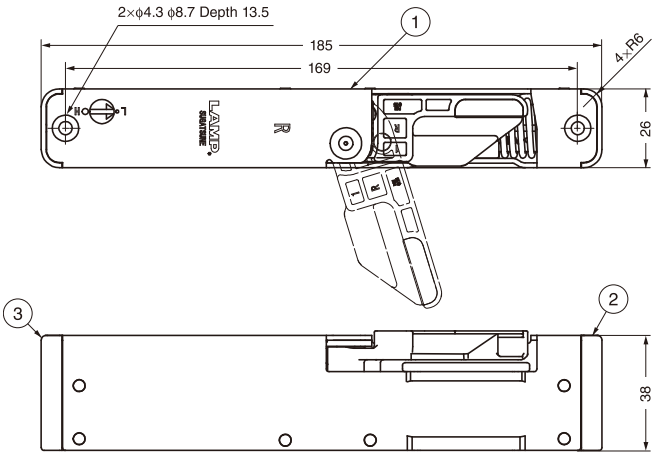
- Binding head tapping screw 4×45
- Binding head tapping screw 3.5×15





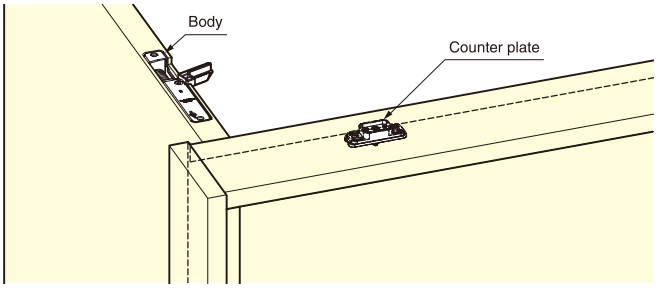
Right-handed type shown.

Body



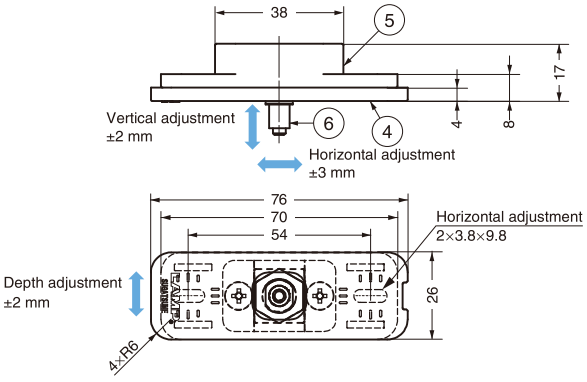
Installation

*Below drawing shows right-handed.



Feature Installation

Counter Plate



No.	Part Name	Material	Finish/Colour
①	Body Case	Steel (SPCC)	Clear Zinc Chromate
②	Spring Base	Polyacetal (POM)	Grey
③	Damper Base	Polyacetal (POM)	Grey
④	Counter Plate Cover	Polyacetal (POM)	Grey
⑤	Counter Plate Case	Polyacetal (POM)	Grey
⑥	Counter Plate Shaft	Steel (SUM)	Nickel

White Cover Optional



Item Code	Item Name	Material	Colour
270-054-108	LDD-V-COVER-WT	POM	White

Body Grey cover included

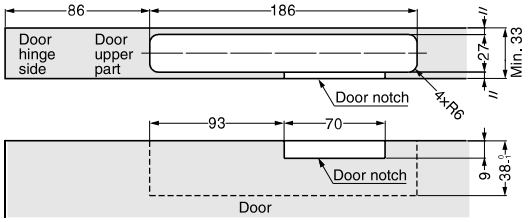
Item Code	Item Name	Type	Door Width	Door Thickness	Door Weight	Weight	Carton
270-017-563	LDD-V-R	Right-handed	Max. 900	Min. 33	15 - 40 kg	427 g	24 pcs
270-017-564	LDD-V-L	Left-handed	Max. 900	Min. 33	15 - 40 kg	427 g	24 pcs

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

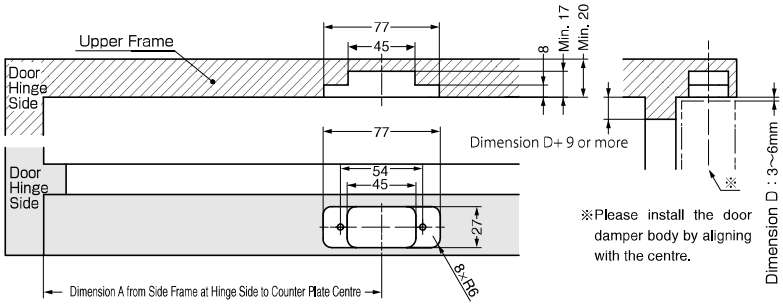
[Cut Out Dimensions] Door Damper Body

Figure below is for LDD-V-R (right-handed). LDD-V-L (left-handed) is symmetrical.



[Cut Out Dimensions] Counter Plate

LDD-V-R (right-handed) shown. LDD-V-L (left-handed) is symmetrical.



Door Hinge	Dimension A from side frame at hinge side to counter plate centre
HES3D-120 HES3D-120-A100 HES3D-H120-36 HES2S-140-A125	219+Clearance B Between Side Frame at Hinge Side and Door
HES1F-140 HES3D-E160 HGS3D-S160SH HES3D-E190 HES3D-W190	220+Clearance B Between Side Frame at Hinge Side and Door
HES3D-V135LGR HES2S-150-A110	217+Clearance B Between Side Frame at Hinge Side and Door
Butt Hinges	223+Clearance B Between Side Frame at Hinge Side and Door

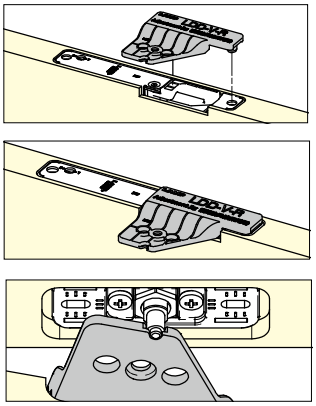
※ Refer to 1 for 3-way adjustable concealed hinge HES3D.

ADJUSTMENT JIG FOR COUNTER PLATE OF LDD-V LDD-V-JIG

Latest Info



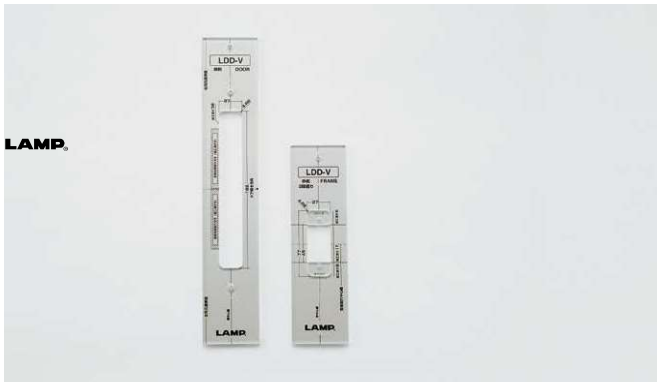
- Easy to adjust position of counter plate.



Item Code	Item Name	Material	Weight	Carton
270-025-276	LDD-V-R-JIG	ABS	11 g	1000 pcs
270-025-275	LDD-V-L-JIG	ABS	11 g	1000 pcs

TEMPLATE FOR LDD-V LDD-V-TMP

Latest Info



- Easy to make mortise on wood door and frame.
- Possible to use repeatedly.
- Two templates included: for door & frame.

Remarks

- Recommended working tool is a straight bit with guide bearings of which guide diameter and bit diameter are the same.

Item Code	Item Name	Material	Colour
270-024-568	LDD-V-TMP	Methacrylic Resin (PMMA)	Clear

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP DOOR DAMPER LDD-V100 For Heavy Doors / Concealed type

Latest Info

Lapcon

Soft-close
Passed Private 100K Cycle Test



LDD-V100-NI-L shown.



Counter plate cover (Nickel/Dark brown)

reddot award 2019 winner

DESIGN AWARD 2019

- Unique door damper applicable to door weight up to 100 kg.
- Suitable for door weight 40 - 100 kg.
- Damper body is completely hidden when the door is closed.
- Damper and door pull-in functions work just before the door fully closes, preventing the door from slamming shut.
- Door can be opened more easily as compared with door closer.
- Damper force is adjustable.
- Counter plate is 3-way adjustable.
- iF Design Award winner 2019.
- Reddot Product Design winner 2019.
- Can be used with the following hinges.
  · HES3D-H120-36
  · HES3D-E190
  · HES3D-E160

INSTRUCTION SCREW

Applications

- Heavy duty interior door (shop, housing)

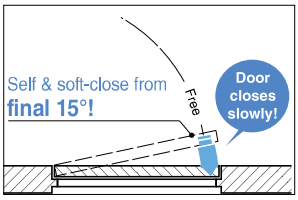
Parts Included

- Tapping screw 3.5 × 20
- Attachment Jig
- Cutout template

Feature Feature

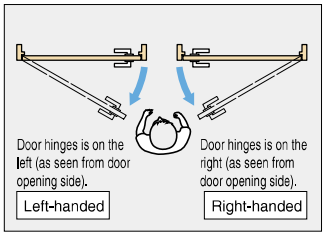


Door Movement



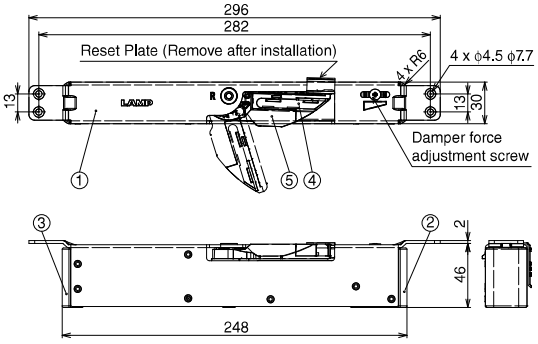
Right-handed type shown. Left-handed type is symmetrical.

Door Hinge Side

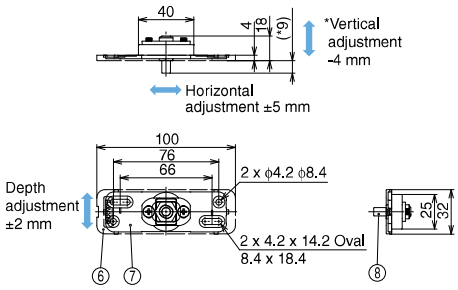


*Below drawing shows right-handed type. Left-handed type is symmetrical.

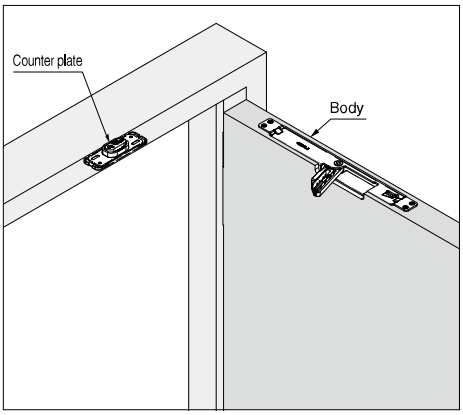
Body



Counter Plate



Installation



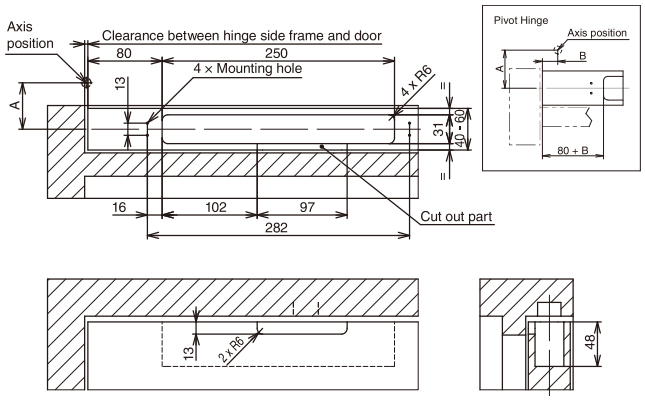
No.	Part Name	Material	Finish / Colour
①	Case	Steel (SPCC)	Nickel
②	Damper Base	POM	Grey
③	Spring Base	POM	Grey
④	Arm Cover	POM	Grey
⑤	Arm	Zinc Alloy (ZDC)	Nickel
⑥	Counter Plate Cover	ABS	Dark Brown/Nickel
⑦	Counter Plate Base	Zinc Alloy (ZDC)	–
⑧	Counter Plate Shaft	Steel (SUM)	Nickel

Item Code	Item Name	Type	Counter Plate Cover	Door Width	Door Thickness	Door Weight (kg)	Weight (g)	Box (pcs)	Carton (pcs)
270-034-821	LDD-V100-DBR-R	Right-handed	Dark Brown	Max. 900	40 - 60	40 - 100	920	1	10
270-034-822	LDD-V100-DBR-L	Left-handed					920	1	10
270-034-823	LDD-V100-NI-R	Right-handed	Nickel				920	1	10
270-034-824	LDD-V100-NI-L	Left-handed					920	1	10

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Cut Out Dimensions for Door

LDD-V100-R (right-handed) shown. LDD-V100-L (left-handed) is symmetrical.



Dimension from frame to bore position of counter plate (mm)

Door Hinge		Clearance Between Hinge Side Frame and Door (mm)				
		1	2	3	4	5
HES3D-160, E190		217	218	219	220	221
Butt Hinge	A=20 - 35	220	221	222	223	224
	A=35 - 50	223	224	225	226	227
Pivot Hinge	A=20 - 35	220 + B	221 + B	222 + B	223 + B	224 + B
	A=35 - 50	223 + B	224 + B	225 + B	226 + B	227 + B

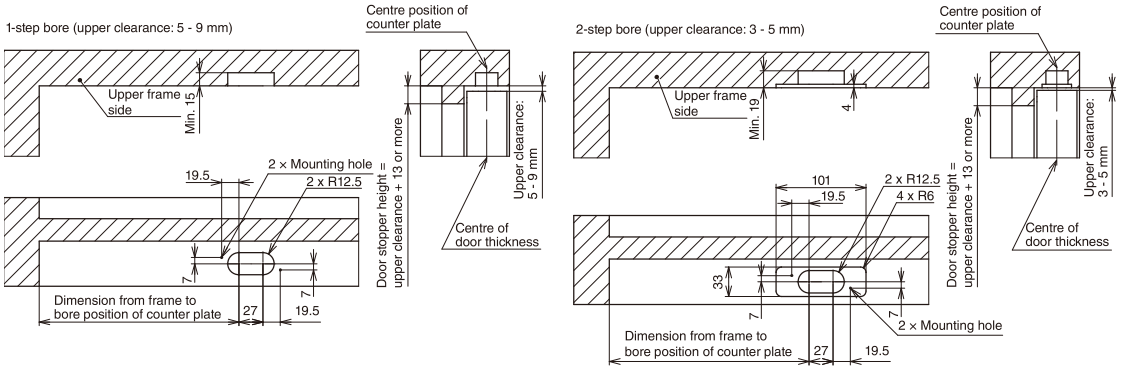
*If clearance between hinge side frame and door is beyond the range in the table above, calculate as per the table below.

Door Hinge		Dimension from Frame to Bore Position of Counter Plate (mm)
HES3D-160, E190		216 + Clearance Between Hinge Side Frame and Door
Butt Hinge	A=20 - 35	219 + Clearance Between Hinge Side Frame and Door
	A=35 - 50	222 + Clearance Between Hinge Side Frame and Door
Pivot Hinge	A=20 - 35	219 + B + Clearance Between Hinge Side Frame and Door
	A=35 - 50	222 + B + Clearance Between Hinge Side Frame and Door

* Refer to for 3-way adjustable concealed hinge HES3D.

Cut Out Dimensions for Frame

LDD-V100-R (right-handed) shown. LDD-V100-L (left-handed) is symmetrical.



⚠ Safety Cautions

- **Do not drop or give strong impact to this product.**
- This product can not resist strong wind. Do not use it under strong wind, or the damper effect will decrease.
- If you close the door with excessive force, the damper effect may decrease.
- The door may not close enough depending on the case lock used.
- This product is designed for interior use. Do not use it outdoors.
- Do not use it at places subject to moisture and water.
- At the entrance of highly airtight room, the door closing speed and damper force may change, and the door may not close enough.
- The closing speed varies depending on the use environment (temperature, wind and hinges used on the door, etc.). Operating temperature: 0˚C - 40˚C
- Do not apply a load in the vertical direction or excessive force to pull-in arm. Otherwise, it may be damaged.
- Please install and adjust this product after adjusting the door hinges.
- Please use the door hinges within the adaptive door weight range of this product.
- Please install this product horizontally. Otherwise, it may not operate properly.
- After vertical adjustment of counter plate, tighten the fixing nut firmly.
- This product is supplied with installation instruction. Be sure to read before installation or use.
- Regularly check for looseness or dropout of screws during use.

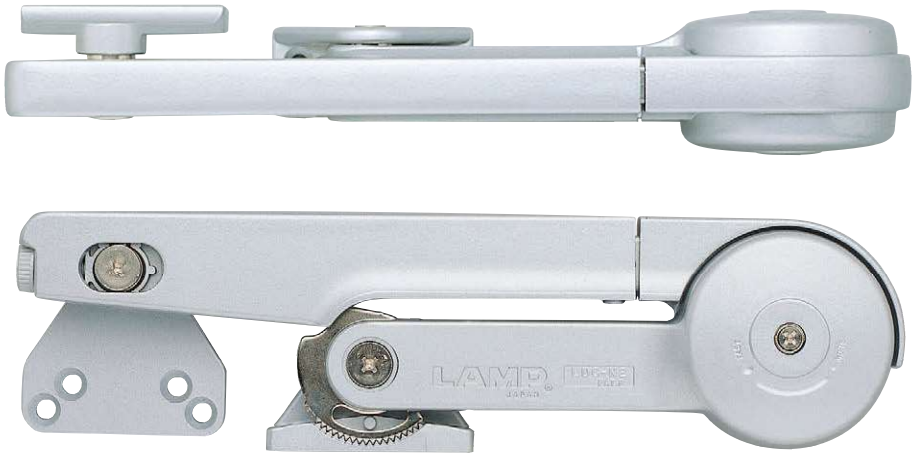
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP DOOR CLOSER LDC-N2

Latest Info

Lapcon

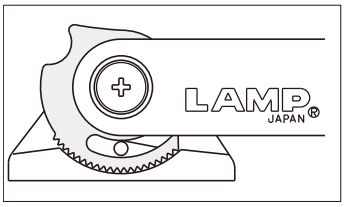
LDC - N21SSL (Flat Bracket)



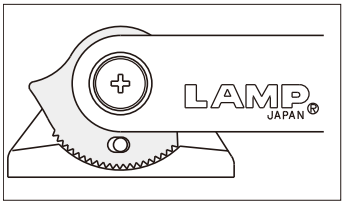
LDC - N22SUM (A Bracket)



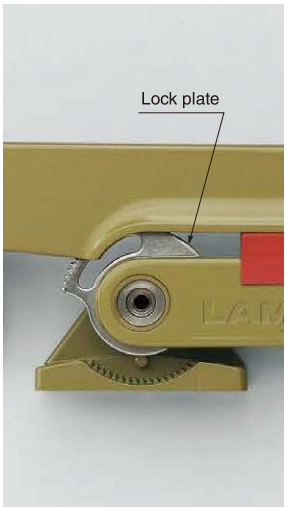
GOOD DESIGN



With Stopper



Without Stopper



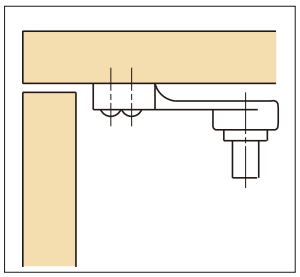
Initial setting (with stopper)

- Lapcon damper mechanism provides a smooth closing.
- Closing speed adjustable.
- Non-handed.

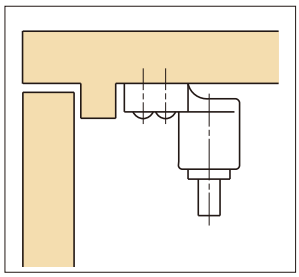
SCREW

Parts Included

- Countersunk head tapping screw 5×30



Flat Bracket



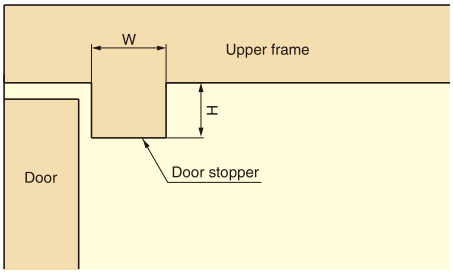
A Bracket

Installation

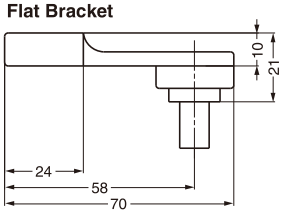
Item Code	Item Name	Type		Material	Finish	Door Size	Door Weight	Speed Adjustment Section	Weight	Box
270-176-050	LDC-N21SSL	Flat Bracket	With Stopper	Aluminium Alloy	Silver	Max. 900×2100	Max. 15 - 45 kg	Self Closing: 0˚ - 150˚ Stoppable range: 70˚ - 180˚ Self Opening: 150˚ - 180˚	1.55 kg	1 pc
270-176-052	LDC-N21SUM				Umber					
270-176-056	LDC-N22SSL	A Bracket			Silver					
270-176-058	LDC-N22SUM				Umber					
270-176-053	LDC-N21SL	Flat Bracket	Without Stopper		Silver			Self Closing: 0˚ - 170˚ Self Opening: 170˚ - 180˚		
270-176-055	LDC-N21UM				Umber					
270-176-059	LDC-N22SL	A Bracket			Silver					
270-176-061	LDC-N22UM				Umber					

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

How to Select Bracket

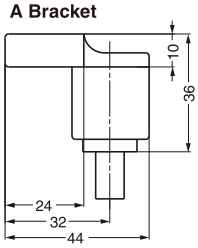


Flat Bracket



· W≥30 mm or no door stopper
· H≥15 mm (with spacer)

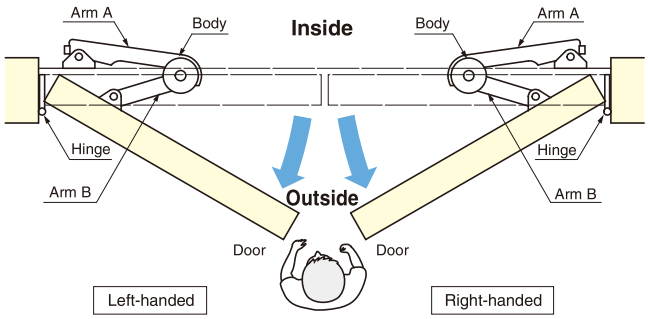
A Bracket



· W≤20 mm and H≤15 mm

- The width of door stopper is Min. 30 mm / Door frame without door stopper: Flat Bracket
- The door stopper is Max. 30 mm wide and Max. 15 mm height: A Bracket
- When the height of door stopper is Min. 15 mm, please use Flat bracket and arrange spacer at your end.
  (Spacer not included.)

Two-door Application

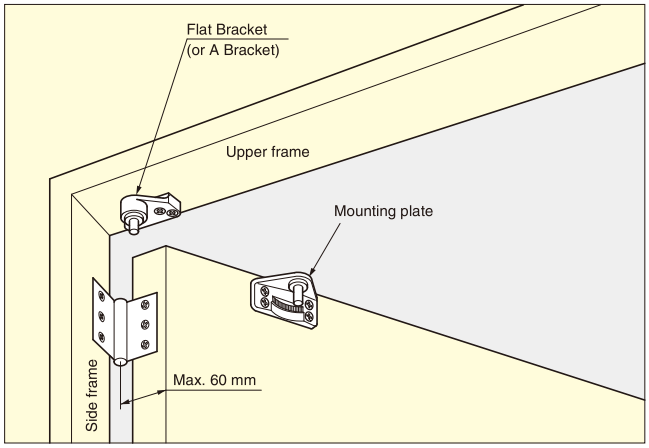


- For two-door application, please install as left.

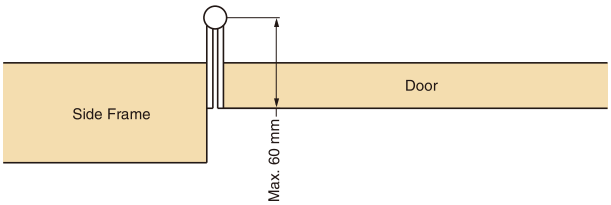
Remarks

- The opening angles between Arm A and Arm B are Max. 120˚. If the arm is opened over 120˚, it may break.

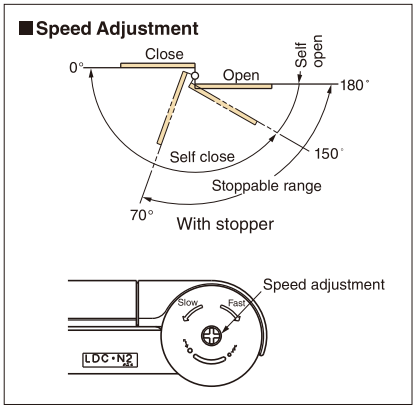
Hinges

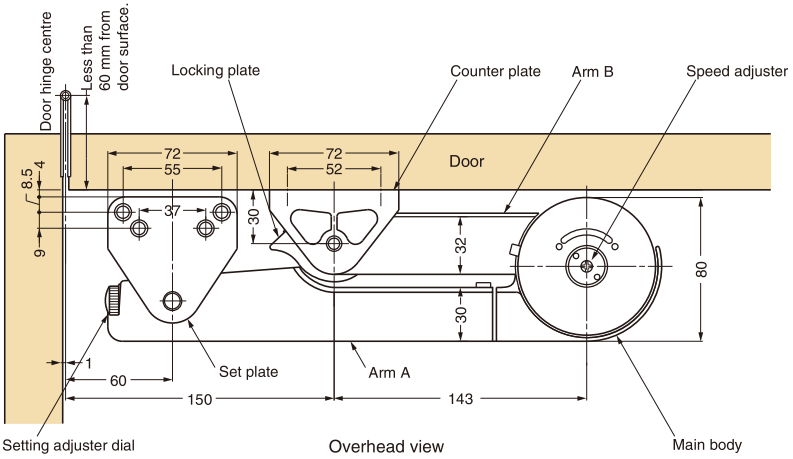


- The length from hinge shaft to the door surface is to be less than 60 mm.

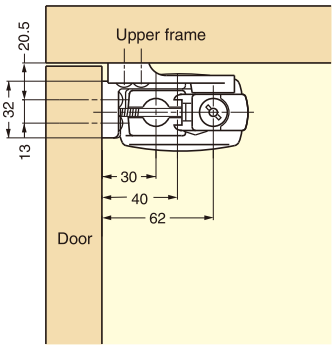


Installation Example for Flat Bracket

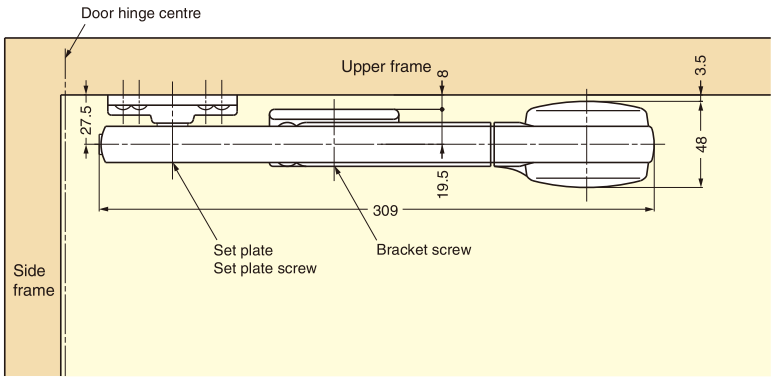




Overhead view

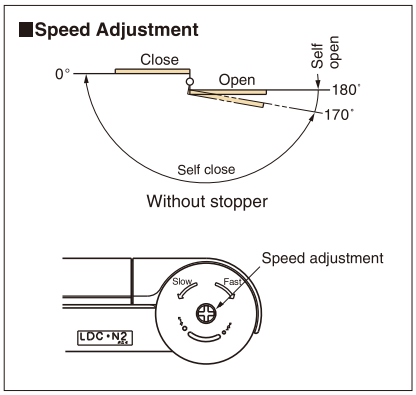


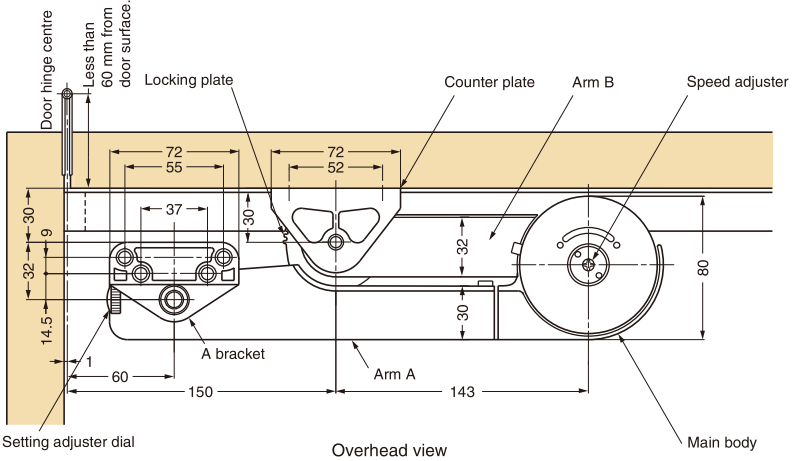
Side view



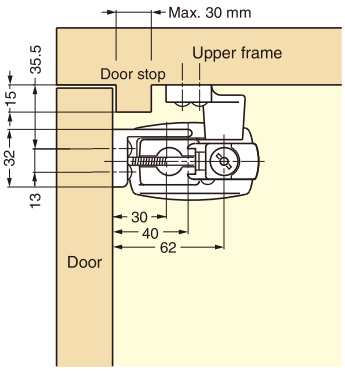
Front view

Installation Example for A Bracket

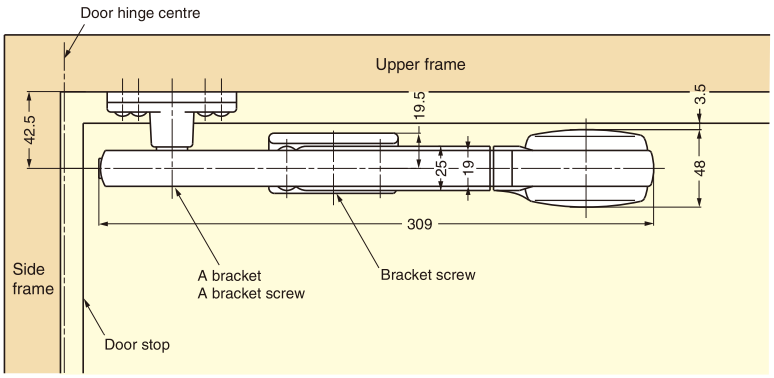




Overhead view



Side view



Front view

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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- Product Videos
- Hardware Basics
- Selection Tools

Zwei L. STAINLESS STEEL DOOR STOPPER ZL-1801

Latest Info



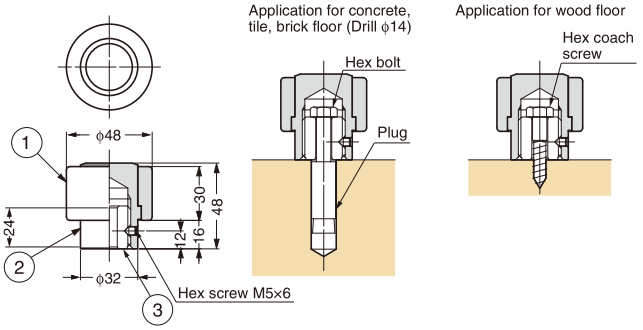
- Floor mount type.
- Made of highly corrosion resistant SUS316
- Ultrapremium Zwei L finish. Zwei L finish: Using top class polishing technology, these products combine the elegance of Satin with the deep glow of a Mirror.

SCREW | SUS316

Parts Included

- Hex bolt M8×75 (SUS)
- Plug (M8 Drill ϕ14)
- Hex coach screw M8×50 (SUS)
- Hex Key

Concept



No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS316)	Zwei L finish
②	Bumper	Rubber	Black
③	Axis	Stainless Steel (SUS316)	Plain

Item Code	Item Name	Weight	Box
270-170-780	ZL-1801	361 g	1 pc

Zwei L. STAINLESS STEEL DOOR STOPPER ZL-1802

Latest Info



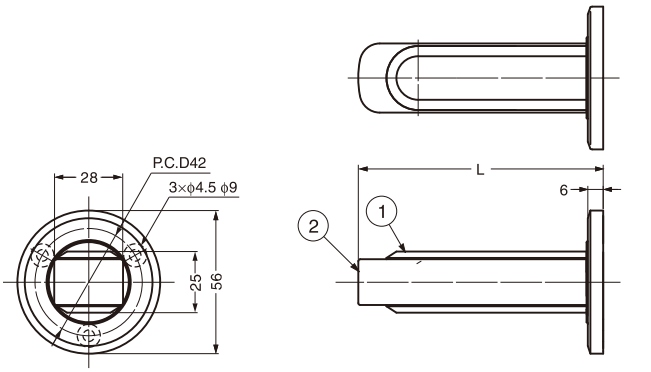
- Wall mount type.
- Made of highly corrosion resistant SUS316
- Ultrapremium Zwei L finish. Zwei L finish: Using top class polishing technology, these products combine the elegance of Satin with the deep glow of a Mirror.

SCREW | SUS316

Parts Included

- Countersunk head wood screw 4.1×32 (SUS)
- Plug (wood screw 4.1, Drill ϕ6)

Concept



No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS316)	Zwei L finish
②	Bumper	Rubber	Black

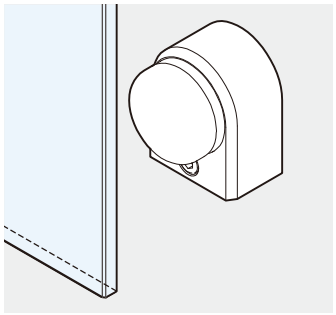
Item Code	Item Name	L	Weight	Box
270-170-781	ZL-1802-72	72	390 g	1 pc
270-170-782	ZL-1802-96	96	480 g	1 pc

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Zwei L. STAINLESS STEEL DOOR STOPPER ZL-1803

Latest Info





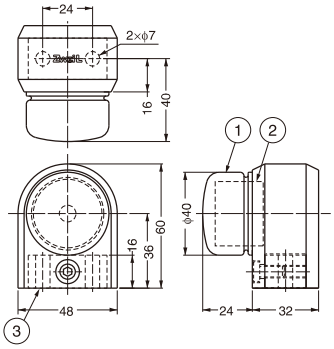
- Floor mount type.
- Highly elastic polyurethane bumper has excellent shock absorbing and damping properties, making it ideal for use with glass.
- Made of highly corrosion resistant SUS316
- Ultrapremium Zwei L finish. Zwei L finish: Using top class polishing technology, these products combine the elegance of Satin with the deep glow of a Mirror.

SCREW SUS316

Concept

Parts Included

- Rounded head wood screw 6.2×56 (SUS)
- Plug (MG-8×40P)
- Hex Key



No.	Part Name	Material	Finish/Colour
①	Stopper	Ethylene Propylene Rubber (EPDM)	Grey
②	Cushion	Foamed Polyurethane (PUR)	–
③	Body	Stainless Steel (SUS316)	Zwei L finish

Item Code	Item Name	Weight	Box
270-183-404	ZL-1803	640 g	1 pc

LAMP STAINLESS STEEL DOOR STOPPER HT-32

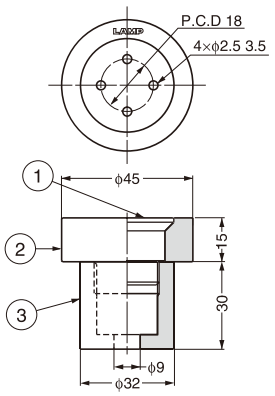
Latest Info



SUS SCREW

Parts Included

- Hex coach screw 8×50 (SUS)
- Anchor bolt M8×70 (SUS)



No.	Part Name	Material	Finish/Colour
①	Pin	Stainless Steel (SUS304)	Satin
②	Bumper	Acrylic Resin	Clear
③	Base	Stainless Steel (SUS304)	Satin

Item Code	Item Name	Weight	Box	Carton
270-170-247	HT-32P	330 g	1 pc	30 pcs

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP GLASS DOOR STOPPER HT-C Ceiling Mounted NEW

Latest Info


HT-C80-WT


HT-C55-GR


HT-C55-BL

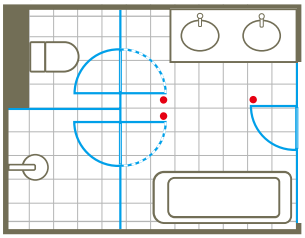
- A doorstop for ceiling mounting.
  Ideal for doors where doorstops cannot be installed on walls or on the floor.
- Can be used in areas exposed to water such as shower booths.

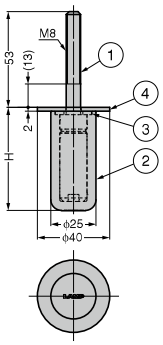
TEMPERED GLASS

Optional Parts
- Nut plate

Remarks
- Make sure the ceiling has sufficient strength to withstand the impact on the door stop.
- Nuts are not included.
- Use the optional nut plate to fix to the ceiling.
- If the optional nut plate is not used, fix the nut so that it does not rotate.

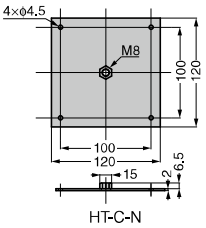
Layout Example


● Recommended ceiling mounting position



Body

Nut plate (optional parts)



HT-C-N

No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS304)	Plain
②	Bumper	Silicone Rubber (Q)	White, Gray, Black
③	Flat washer A	Stainless Steel (SUS304)	Plain
④	Flat washer B		White, Gray, Black

Body

Item Code	Item Name	Colour	H	Weight (g)	Box (pcs)	Carton (pcs)
270-050-948	HT-C55-WT	White	57	130	1	20
270-050-949	HT-C55-GR	Gray			1	20
270-057-054	HT-C55-BL	Black			1	20
270-050-950	HT-C80-WT	White	82	170	1	20
270-050-951	HT-C80-GR	Gray			1	20
270-057-055	HT-C80-BL	Black			1	20

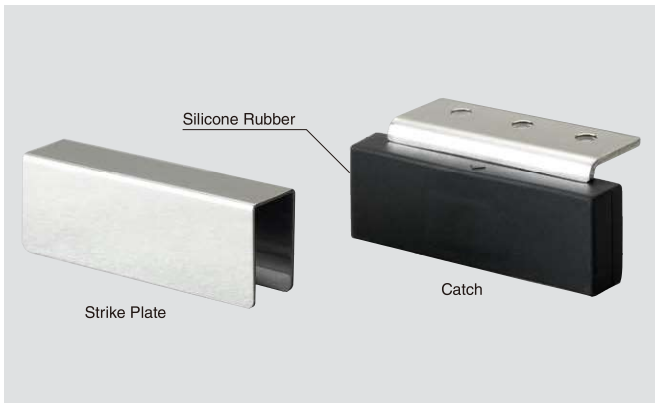
Nut Plate Optional Parts

Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)
270-053-370	HT-C-N	Steel	Yellow Zinc Chromate	250	20

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP DOORSTOP MAGNETIC CATCH HT-MSG62 For Glass Doors

Latest Info



- Works as a glass door stopper and also a magnetic catch.
- Can be used in areas exposed to water such as shower booths.
- The magnet is covered with silicone rubber to catch doors gently.
- Can be used on thin doorframes by installing the bracket in the opposite direction.

SUS | TEMPERED GLASS | INSTRUCTION

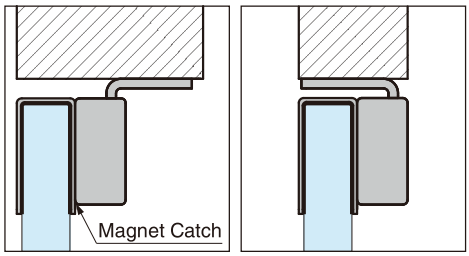
Application
- Shower rooms, bathrooms.

Remarks
- Operating temperature: Max. 80°C
- Please do not scratch the part of the silicone rubber which comes into contact with the strike plate. It may cause the silicone to break. If you do not use the strike plates sold separately, please make sure to use a flat one instead.
- The strike plate must be installed on the upper section of the door. Installation on the bottom or side of the door may cause misalignment.
- The magnetic force is the value when using with the strike plate.

Parts Included
- Cross-recessed screw M4 × 12

Different Installations Available

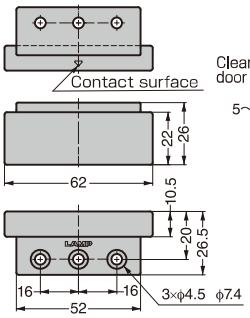
- On standard doorframes
- On thin doorframes



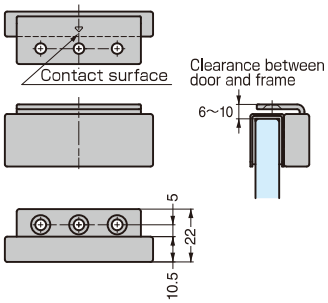
Can be used on thin doorframes by installing the strike plate in the opposite direction.

Catch

- For standard doorframes



- For thin doorframes



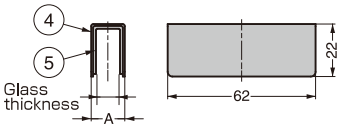
Recommended Glass Hinges to Use with





Can be used with the gravity hinges: GH-G02 and GH-G07 (P.184).

Strike Plate



No.	Part Name	Material	Colour
①	Body	Silicone Rubber (Q)	Black
②	Bracket	Stainless Steel (SUS304)	–
③	Magnet	Neodymium	–
④	Strike Plate	Stainless Steel (SUS430)	–
⑤	Packing for Strike Plate	Chloroprene Rubber (CR)	Black

Catch

Item Code	Item Name	Magnetic Force N	Magnetic Force kgf	Weight (g)
270-043-849	HT-MSG62	35	3.6	52.2

Strike Plate Sold Separately

Item Code	Item Name	Glass Thickness	A	Weight (g)
270-043-850	HT-MSG62-U8	8	12.1	22.3
270-043-851	HT-MSG62-U10	10	14.1	22.9
270-043-852	HT-MSG62-U12	12	16.4	23.7

Packing for Strike Plate Optional For 12.7/13.5 mm glass, the HT-MSG62-U12 and optional strike plate packing are needed (instead of the included one).

Item Code	Item Name	Glass Thickness	Weight (g)
270-043-853	HT-MSG62-P127	12.7	1.4
270-043-854	HT-MSG62-P135	13.5	1.1

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP DOORSTOP MAGNETIC CATCH FOR GLASS DOORS HT-MSG72-ER With Emergency Open Function NEW

Latest Info



HT-MSG72-ER1-SM HT-MSG72-ER2-BL Strike Plate

- A doorstop with a clean design that uses magnetic force to hold the door closed.
- In emergencies, the door can be opened without tools.
- Can be used in areas exposed to water such as shower booths.
- The magnet is coated with silicone rubber to catch doors gently.

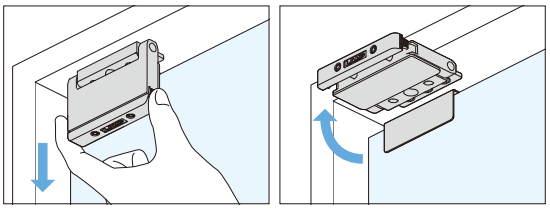
SUS | TEMPERED GLASS | INSTRUCTION

Applications
- Shower rooms, bathrooms.

Parts Included
- Operation seal
- Hex socket countersunk head screw M4×16 (stainless steel)

Remarks
- Install with product side at least 20 mm from wall.
- Operating temperature: Max. 80°C.
- Please do not scratch the part of the silicone rubber which comes into contact with the strike plate. It may cause the silicone to break. If you do not use the strike plates sold separately, please make sure to use a flat one instead.
- The strike plate must be installed on the upper section of the door. Installation on the bottom or side of the door may cause misalignment.
- The magnetic force is the value when using with the strike plate.
- Use the product with a vertically opening hinge.

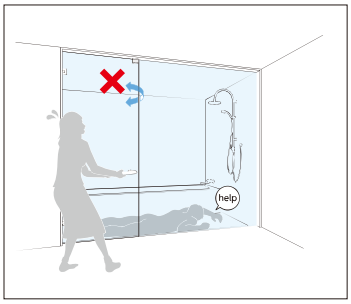
Emergency Open Method



(1) Pull the body lever down. (2) Lift the body forward.

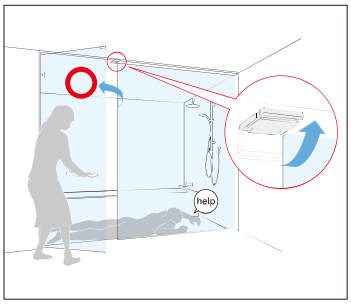
Emergency Application Example

Doorstop without emergency open function



Doorstop interferes and door will not open outward.

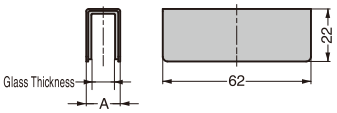
Doorstop with emergency open function (this product)



Door can be kept open without tools.

Feature Feature

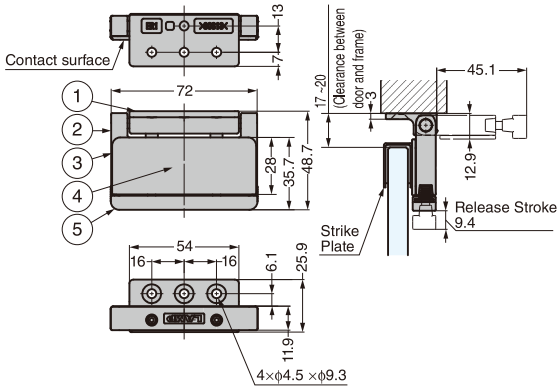
Strike Plate



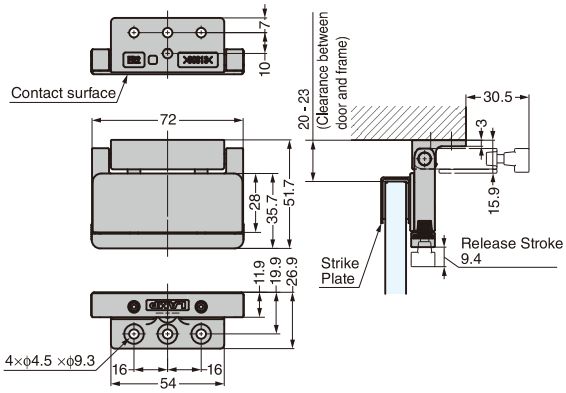
No.	Part Name	Material
①	Mounting Plate	Stainless Steel (SCS13)
②	Body	
③	Bumper	Silicone (Q)
④	Magnet	Neodymium
⑤	Operating Lever	Polypropylene (PP)

Catch

Thin doorframes



Standard



Catch

Item Code	Item Name	Finish/Colour	Specifications	Magnetic Force N	Magnetic Force kgf	Weight (g)
270-048-315	HT-MSG72-ER1-SM	Mirror	Thin doorframes	35	3.6	210
270-048-316	HT-MSG72-ER1-BL	Baked Paint/Black				213
270-048-317	HT-MSG72-ER2-SM	Mirror	Standard			223
270-048-318	HT-MSG72-ER2-BL	Baked Paint/Black				227

Strike Plate Sold Separately

Item Code	Item Name	Finish/Colour	Glass Thickness	A	Weight (g)
270-043-850	HT-MSG62-U8	Polished	8	12.1	22.3
270-043-851	HT-MSG62-U10		10	14.1	22.9
270-043-852	HT-MSG62-U12		12	16.4	23.7
270-053-371	HT-MSG62-U8-BL	Baked Paint/ Black	8	12.1	22.3
270-053-372	HT-MSG62-U10-BL		10	14.1	22.9
270-053-373	HT-MSG62-U12-BL		12	16.4	23.7

Packing for Strike Plate
Optional (can be used only with the strike plate for 12 mm glass)

Item Code	Item Name	Glass Thickness	Weight (g)
270-043-853	HT-MSG62-P127	12.7	1.4
270-043-854	HT-MSG62-P135	13.5	1.1

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LAMP DOOR STOPPER HT-G70

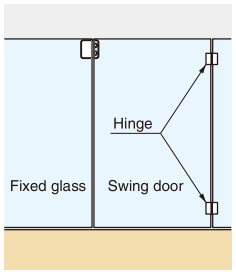
Latest Info



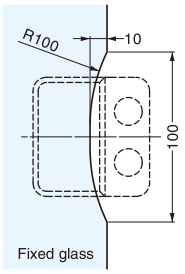
- For use on single swing glass doors.
- No need for glass processing. Simply press the packing (PVC material) onto the glass to fix it in place.
- Can be used in areas with frequent contact to water including shower booths.

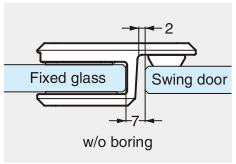
Remarks
- Do not use in upper glass transom.
- Soft-closing hinges/self-closing (function within final 25 degrees) hinges are recommended to use with to prevent from excessive impact.

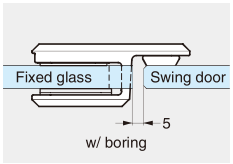
Installation

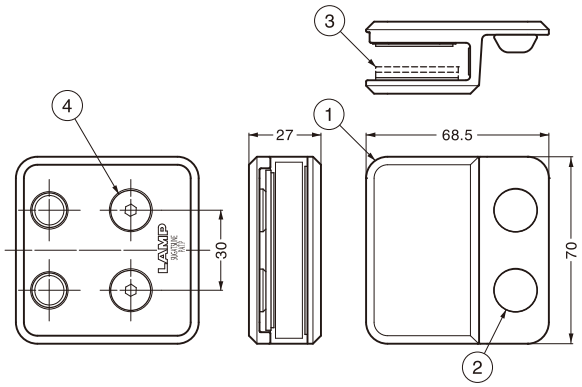


Cut Out Dimensions









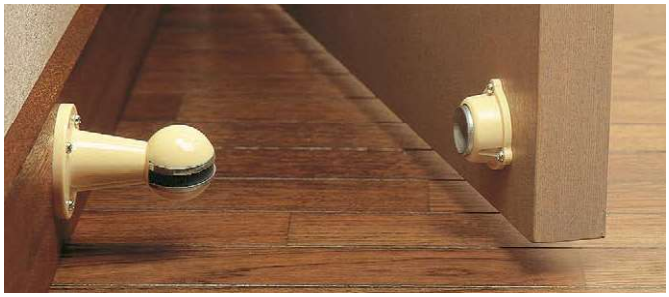
No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SCS13)	Mirror
②	Pad	Silicone (Si)	Natural
③	Gasket	Vinyl Chloride Resin (PVC)	Clear
④	Screw	Stainless Steel (SUS303)	Plain

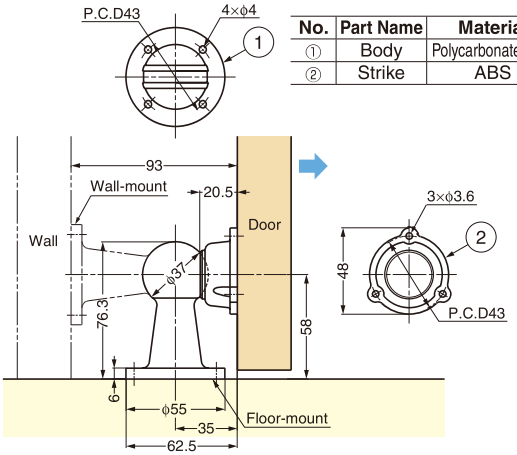
Item Code	Item Name	Glass Thickness	Weight	Carton
270-021-701	HT-G70	8, 10, 12	374 g	40 pcs

LAMP DOOR STOPPER M

Latest Info







No.	Part Name	Material	Colour
①	Body	Polycarbonate (PC)	Ivory, Brown
②	Strike	ABS	Ivory, Brown

- Holds door open with a powerful magnet.
- Floor mounted or wall mounted.
- No need to crouch down and latch the door stopper to hold door open.
- Body is ball shaped, allowing for a firm hold even if alignment is slightly off.

SCREW

Parts Included
- Rounded head wood screw 3.5×22 (Body)
- Rounded head wood screw 3.1×16 (Mounting plate)

Item Code	Item Name	Colour	Magnetic Force		Weight	Box	Carton
270-172-008	MI	Ivory	137 N	14 kgf	165 g	10 pcs	100 pcs
270-172-007	MBR	Brown	137 N	14 kgf	165 g	10 pcs	100 pcs

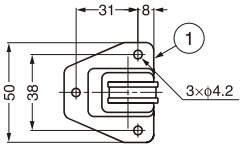
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LAMP DOOR STOPPER K

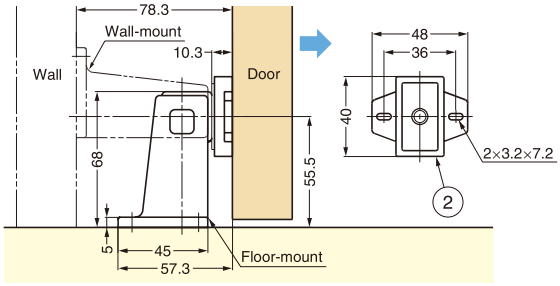
Latest Info







No.	Part Name	Material	Colour
①	Body	Polyamide (PA)	Ivory, Brown
②	Strike	Polyamide (PA)	Ivory, Brown



- Holds door open with a powerful magnet.
- Floor mounted or wall mounted.
- No need to crouch down and latch the door stopper to hold door open.
- Easy installation: large body allows for firm holding even without perfect alignment.

SCREW

Parts Included
- Countersunk head wood screw 3.8×20 (Body)
- Countersunk head wood screw 3.1×13 (Mounting plate)

Sold Separately
- Anchor bolt KA (below)

Anchor bolt KA (Sold Separately)

Item Code	Item Name	Weight	Box	Carton
270-050-101	KA	114 g	25 pcs	100 pcs

Item Code	Item Name	Colour	Magnetic Force		Weight	Box	Carton
270-172-006	KI	Ivory	118 N	12 kgf	100 g	10 pcs	100 pcs
270-172-005	KBR	Brown	118 N	12 kgf	100 g	10 pcs	100 pcs

LAMP STEP-ON DOOR HOLDER DJ-175

Latest Info



DJ-175-BR



DJ-175-BL



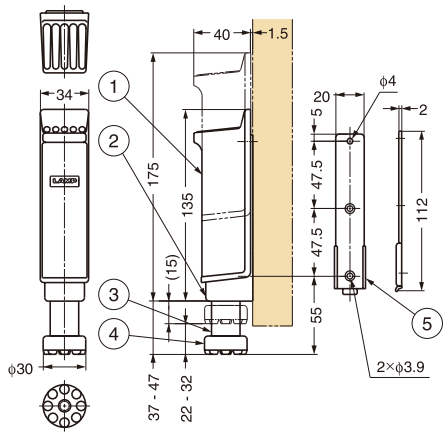


Feature

- Holds door at any position.
- Easy to operate: Simply step on the top to set or release the door holding mechanism.
- Cover prevents ingress of dust into adjustable shaft.
- Uses a spring to hold door firmly.
- Individual components are installed separately making installation easy.
- Installation screw is not visible post-installation.

SCREW

Parts Included
- Binding head tapping screw 3.5×16 (1 pc)
- Countersunk head tapping screw 3.5×16 (2 pcs)



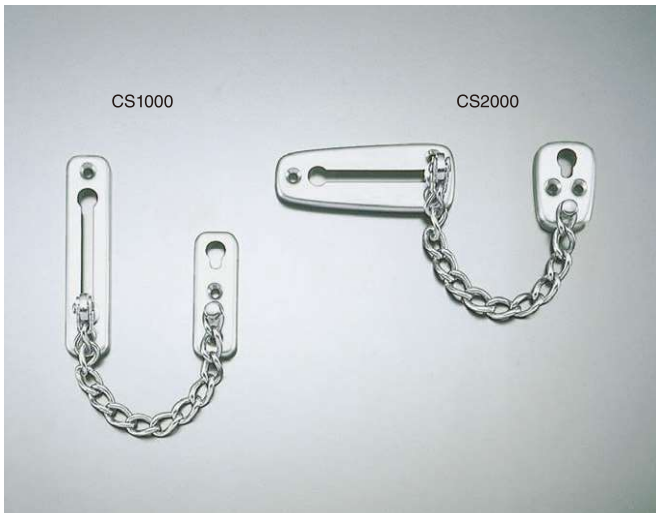
No.	Part Name	Material	Finish/Colour
①	Step	Polyamide (PA)	Brown/Black
②	Body	Polyacetal (POM)	Ivory/Black
③	Shaft	Polyacetal (POM)	Ivory/Black
④	Glide	Rubber	Brown/Black
⑤	Mounting Plate	Steel	Yellow Zinc Chromate

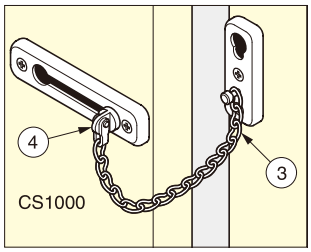
Item Code	Item Name	Colour	Weight	Box	Carton
270-050-098	DJ-175-BR	Brown	215 g	10 pcs	50 pcs
270-047-965	DJ-175-BL	Black	215 g	10 pcs	50 pcs

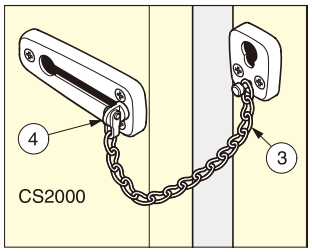
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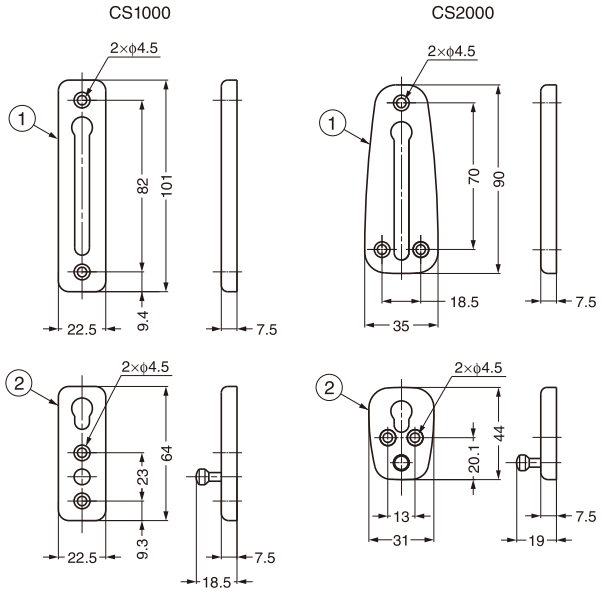
LAMP STAINLESS STEEL DOOR CHAIN CS

Latest Info









SUS SCREW

Parts Included

- Countersunk rounded wood screw 4×25 (SUS)

Item Code	Item Name	Weight	Box	Carton
270-051-060	CS1000	115 g	15 pcs	150 pcs
270-051-061	CS2000	120 g	15 pcs	150 pcs

No.	Part Name	Material	Finish
①	Body (1)	Stainless Steel (SUS304)	Satin
②	Body (2)	Stainless Steel (SUS304)	Satin
③	Chain (150 mm length)	Stainless Steel (SUS304)	Polished
④	Knob	Brass	Nickel

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

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SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

LAMP STACKABLE PARTITION DOOR SYSTEM FDPN40

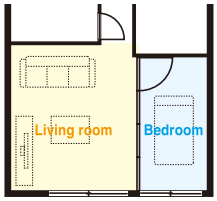




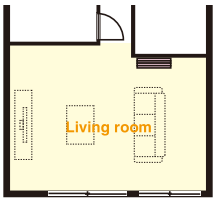
3-panel perpendicular left-stacking type

Smooth movements and numerous variations,

now, with even more arrangement options



Divide your space into a living room and bedroom



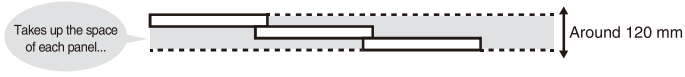
Keep the room open for a large living room

With this new flat stackable partition door system, there is even more freedom available to rearrange interiors and better suit different lifestyles and settings.
The corner rail has a new design, making movement smoother and enabling many new possibilities.

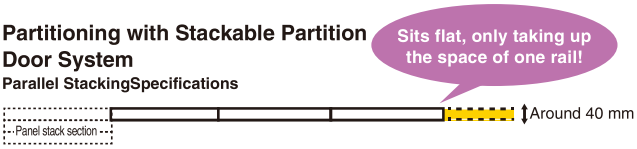
	Parallel Stacking Single Partition	Parallel Stacking Double Partitions	Perpendicular Stacking Single Partition	Perpendicular Stacking Double partitions
Door Height	Maximum 2500 mm			
Door Width	See the page for each product			
Door Thickness	34 - 40 mm			
Door weight	Maximum 40 kg (per door)			
Adjustment Range	Vertical: 0 to +7 mm			
No. of Doors	☐ 3 to 6 panels			

Sits as flat as the wall, keeps interiors looking clean

Partitions using conventional sliding doors



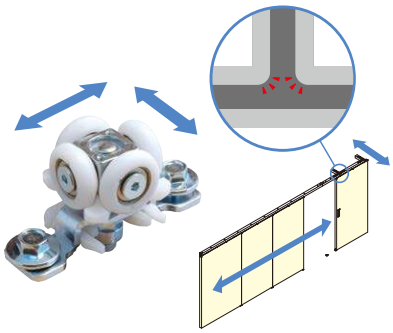
Partitioning with Stackable Partition Door System
Parallel StackingSpecifications



Unlike a sliding door, which takes up the space of the total panels, the panels sit flat together, making them space-efficient and user-friendly. Choose from parallel stacking or perpendicular stacking.

Redesigned for even smoother movement

2X2 quad rollers and new rounded corner rail enable even smoother opening, closing and stacking. Even large panels up to 40 kg can be operated smoothly.



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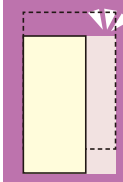
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Choose from numerous variations

Compatible with even wider spaces
As many as 5 to 6 panels can be used*

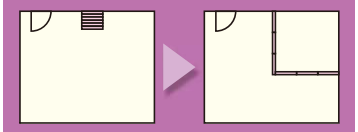
1	2	3	4	5	6

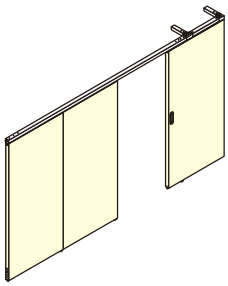
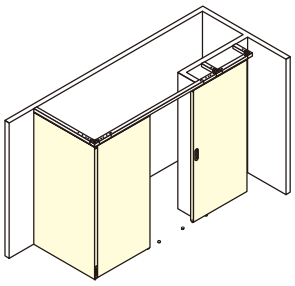
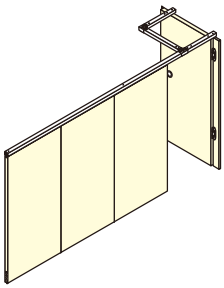
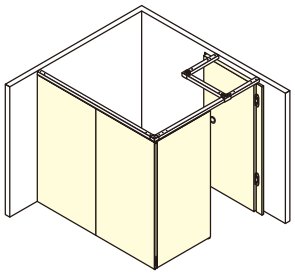
*Compared to 3 to 4 for conventional products



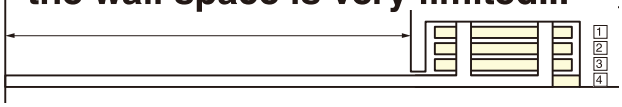
Recommended as a way to save space in residences
Enables more usable area and requires less space for storage
(See below)
Can be used with narrow panels as well

Enables partitioning of corners
Double Partition

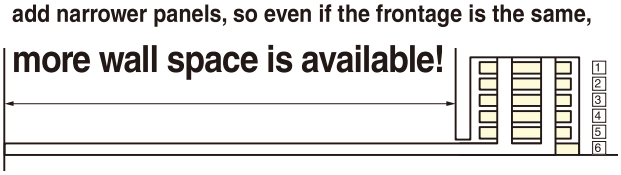


	Single Partition	Double Partition
Parallel Stacking		
Perpendicular Stacking		

With a standard stackable partition door system,
the wall space is very limited...



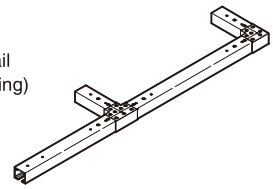
With the FDPN40,
add narrower panels, so even if the frontage is the same,
more wall space is available!



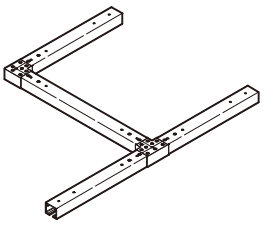
Easy to install
Preassembled perpendicular rail

The stacking rail has a perpendicular structure, enabling easy recession into the ceiling to aid in the installation process. This product is shipped fully assembled, eliminating the need for machining on site and also preventing on site mistakes.

Parallel Stacking Rail (right stacking)

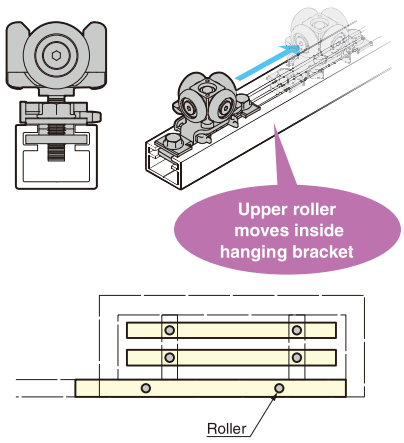


Perpendicular Stacking Rail (right stacking)



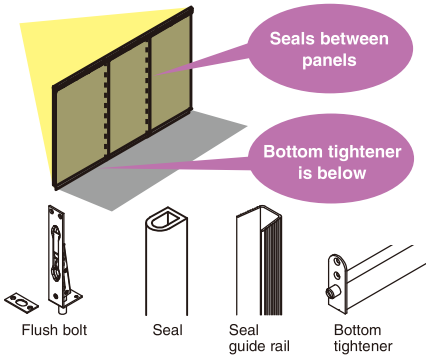
Installation length is adjustable

The distance between the rollers can be adjusted using the hanging bracket. Using this, the product can be adjusted for use with panels of different widths. This method can be used to correct roller malfunctions and malfunctions in stacking that occur post installation.



Optional soundproofing and light pollution protection

Optional parts to increase protection against light and sound pollution are also available. Improves the partitions function as a wall. The panels are secured with flush bolts, seals are placed between the panels and bottom tighteners are applied to block the gaps between the panels and the floor. Optional parts are also available for entrances and exits. See the pages for each product for details.
Note: There will be a slight gap between the upper track and the door.

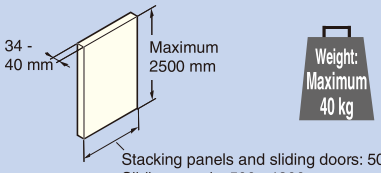
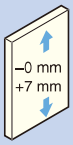


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP STACKABLE PARTITION DOOR SYSTEM (PARALLEL STACKING SINGLE PARTITION) FDPN40P1D

Latest Info

- A sliding partition door system that sits as flat as the wall. Simply sliding the panels open or closed can change the layout of an interior.
- The panels slide with reliable smoothness.
- Parallel stacking single panel type. The panels fit parallel when stacked.

Panel Size (Per Panel)	Adjustment
 Stacking panels and sliding doors: 500 - 1000 mm Sliding panels: 500 - 1300 mm	

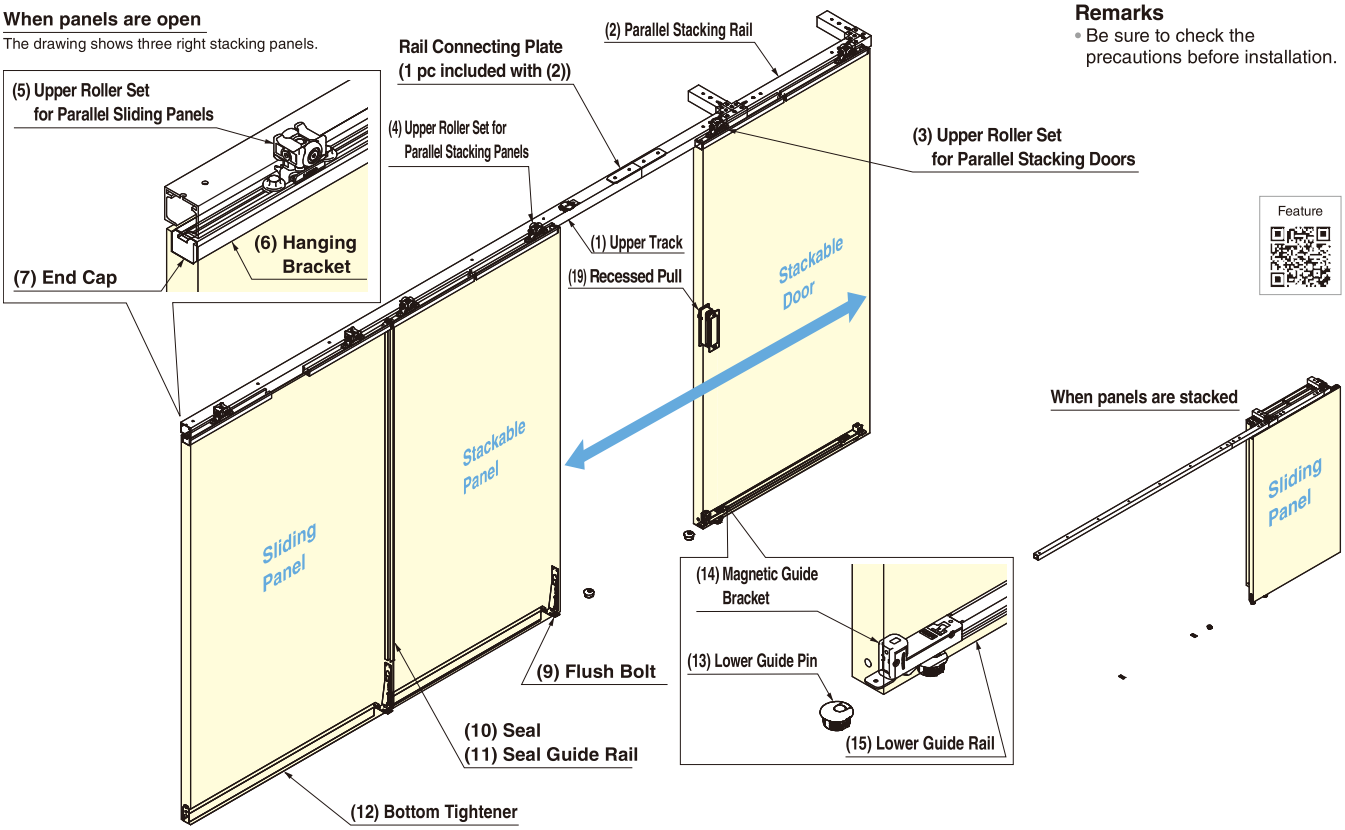
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

INSTRUCTION

Remarks
- Be sure to check the precautions before installation.

When panels are open

The drawing shows three right stacking panels.

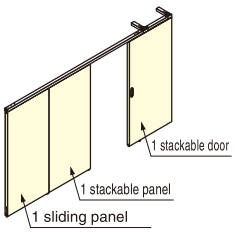


Feature

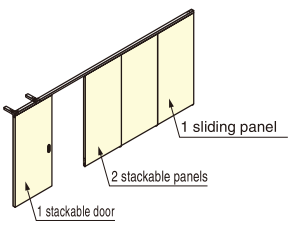
Finished Example

See Stacking Variations for other types of stacking. You'll also find an explanation of left stacking and right stacking.

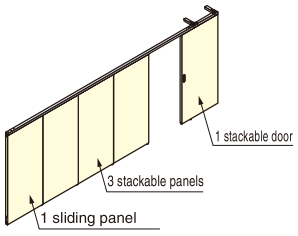
Right stacking/3 panels



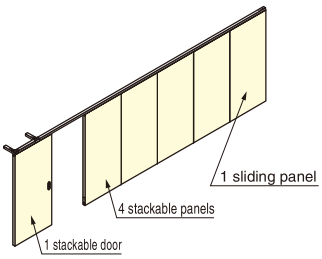
Left stacking/4 panels



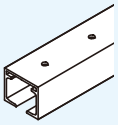
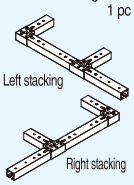
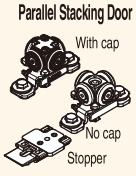
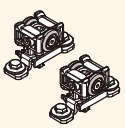
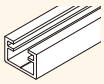
Right stacking/5 panels



Left stacking/6 panels



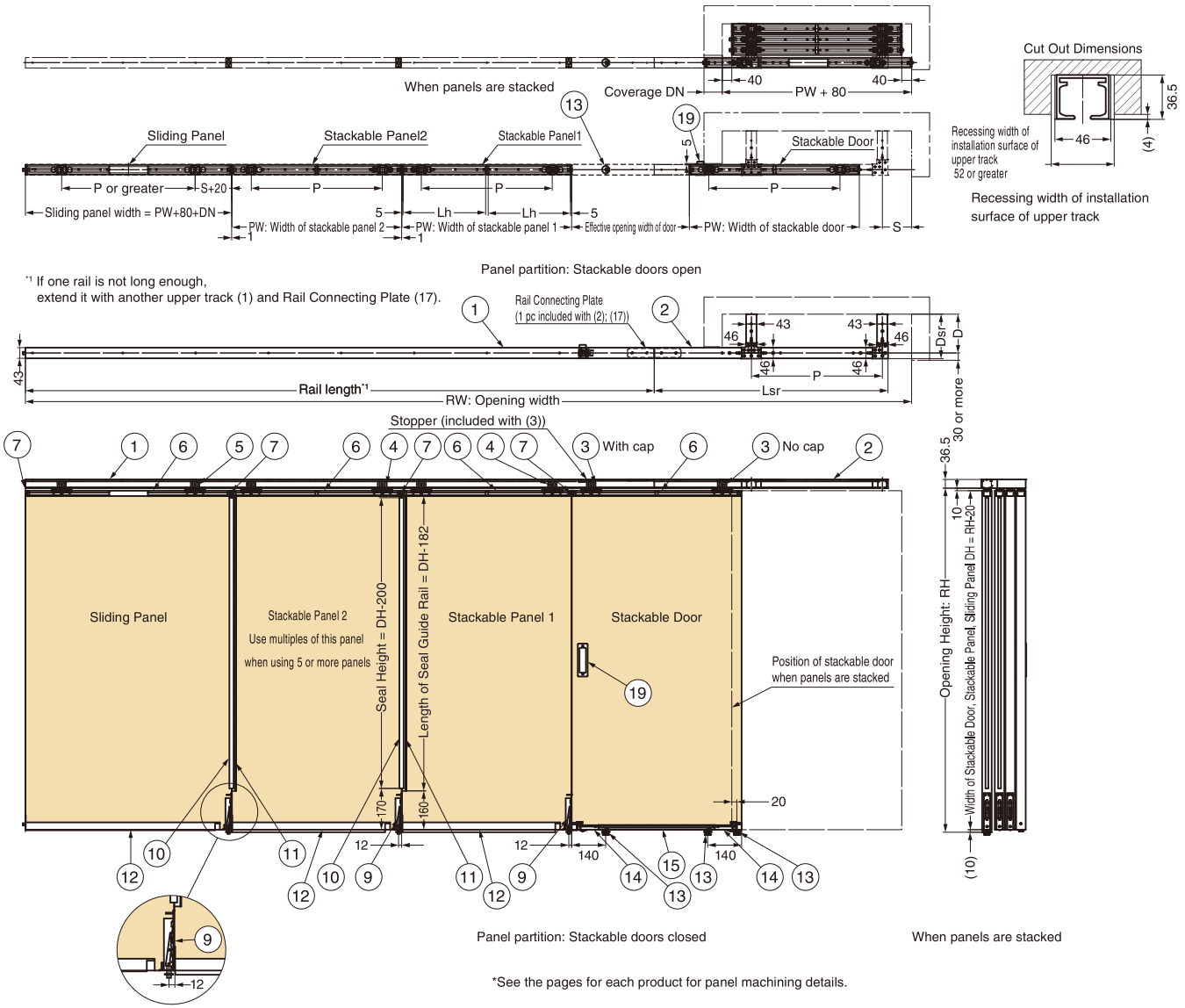
Standard Part List

Parts / Number of Panels / Item Code / Item Name	Stacking Type / Retraction Space	Required Parts (Selectable) (1) Upper Track	Required Parts (Selectable) (2) Parallel Stacking Rail	Required Parts (3) Upper Roller Set for Parallel Stacking Door	Required Parts (4) Upper Roller Set for Parallel Stacking Panels	Required Parts (5) Upper Roller Set for Parallel Sliding Panels	Required Parts (6) Hanging Bracket 2 pcs	Required Parts (7) End Cap for Hanging Bracket	Required Parts (8) Adjustment Spanner (for Upper Roller Set)
								 The part set is black. White is also available.	
Item Code / Item Name		250-037-219 FDPN40P-QRF-ST	250-037-220 FDPN40P-QRF	250-037-221 FDPN40P-QRL	FDP40-DTR	250-121-142 FD70B-EC-BL	250-017-168 FD30-FSP		
3 pcs 4 pcs 5 pcs 6 pcs	Left /Right	See "How to order" for details on the necessary quantity and types. In addition to choosing between left and right stacking for the upper track and stacking rail, there is a variety of lengths and depths, and different products should be chosen depending on the width and number of panels.							

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Sample Stacking Dimensions The drawing shows four right stacking panels.



*See the pages for each product for panel machining details.

No. of Panels	Door Width			Storage Rail Dimensions				Hanging Bracket Dimensions
	Sliding Panel	Stackable Panel	Stackable Door	P	D	Dsr	Lsr	Lh
3 - 4	500 - 700			340	160	183	623	240
	700 - 1300	700 - 1000		540			963	340
5 - 6					260	283	823	

*Parts such as the stacking rail and hanging bracket differ depending on the number and width of panels. See "How to order" for details.

Optional Parts

Parts / Number of Panels	Optional Items										
	(9) Flush Bolt	(10) Seal (Black) White is also available.	(11) Seal Guide Rail (Black) White is also available.	(12) Bottom Tightener (Door Width 600-800) Door widths 800-1000 is also available. (Other sizes are made to order.)	(13) Lower Guide Pin (Light Grey) Light brown and dark brown are also available.	(14) Magnetic Guide Bracket (2 pcs)	(15) Lower Guide Rail	(16) Adjustment Spanner (for Lower Guide Pin) Dedicated Tool Z059 is also compatible.	(17) Rail Connecting Plate	(18) End Plate for Upper Track and Stacking Rail (Silver) Amber and white are also available.	(19) Recessed Pull (Chrome Plating) Satin Nickel and Dull Chrome are also available.
Item Code	250-024-525	250-024-526	250-024-527	250-024-528	250-029-828	250-026-500	250-026-501	250-022-252	250-025-761	250-029-723	100-010-097
Item Name	FDP40-DBL150HL	FDP40-DSP2500BL	FDP40-DSPU2500BL	FDP40-DBT800	FD30-MGFP-LGR	FD30-MGDB	FD30-MGDR1000	FD80-HHSP	FDP40-TRMS-CP	FDP40-TREP-SL	HH-P135CR
3 pcs	2 pcs	1 pc	1 pc	2 pcs	3 pcs	1set	1 pc	–	–	–	1 pc
4 pcs	3 pcs	2 pcs	2 pcs	3 pcs							
5 pcs	4 pcs	3 pcs	3 pcs	4 pcs					1 pc		
6 pcs	5 pcs	4 pcs	4 pcs	5 pcs							

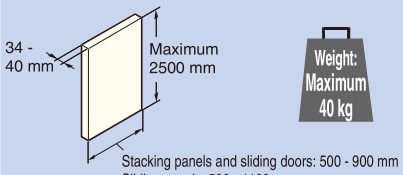
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP STACKABLE PARTITION DOOR SYSTEM (PARALLEL STACKING DOUBLE PARTITION) FDPN40P2D

Latest Info

- A sliding partition door system that sits as flat as the wall. Simply sliding the panels open or closed can change the layout of an interior.
- The panels slide with reliable smoothness.
- Parallel stacking double panel type enabling corner partitioning. The panels fit parallel when stacked.

Panel Size (Per Panel)



Adjustment



SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

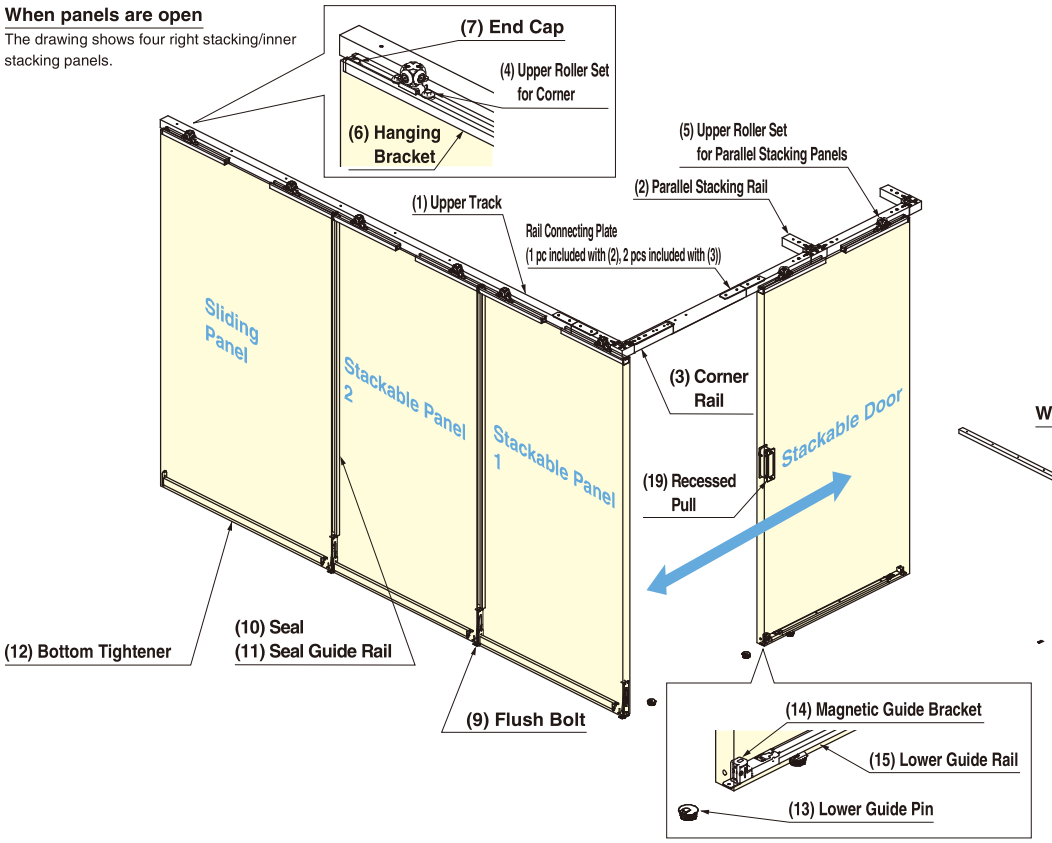
INSTRUCTION

Remarks
- Be sure to check the precautions before installation.

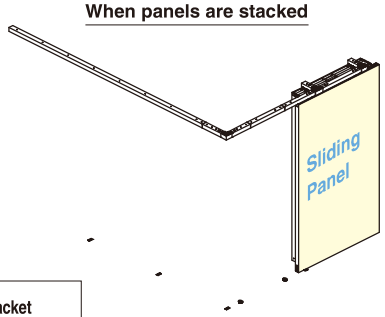
Feature

When panels are open

The drawing shows four right stacking/inner stacking panels.



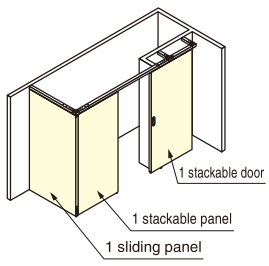
When panels are stacked



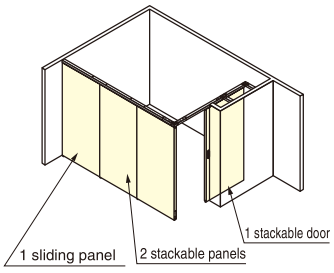
Installation Example

See Stacking Variations for other types of stacking. You'll also find an explanation of left stacking, right stacking, inner stacking and outer stacking.

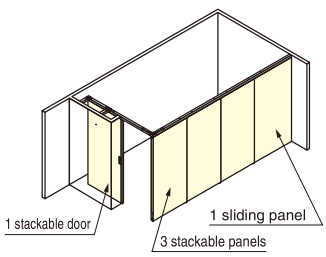
Right stacking/inner stacking/3 panels



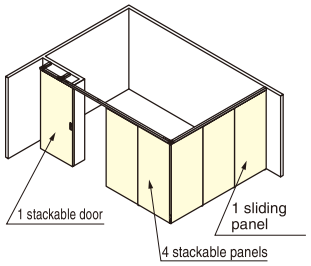
Left stacking/outer stacking/4 panels



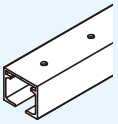
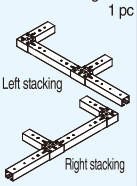
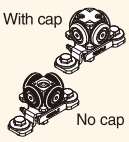
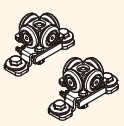
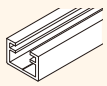
Right stacking/outer stacking/5 panels



Left stacking/inner stacking/6 panels

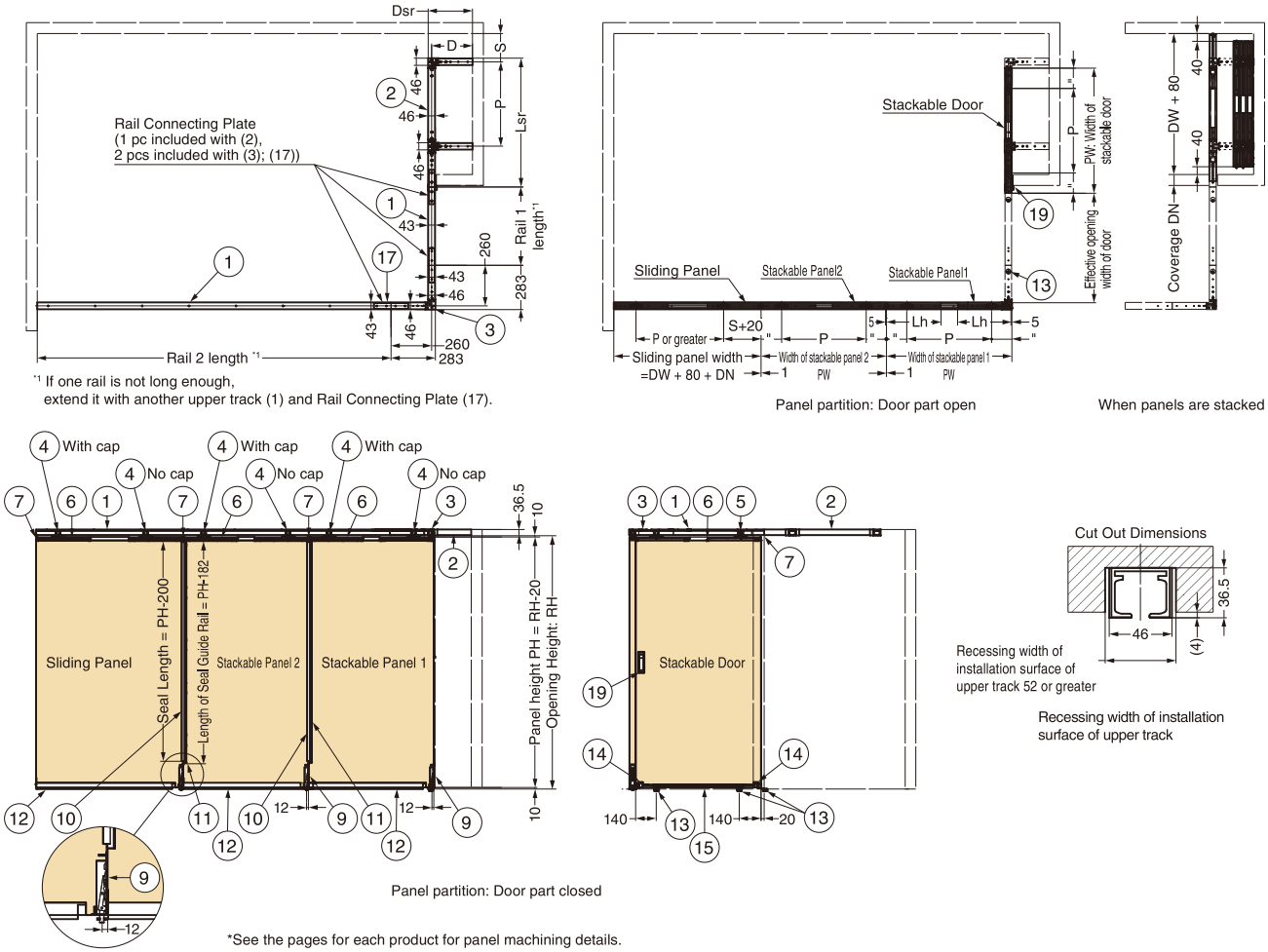


Standard Part List

Parts / Number of Panels / Item Code / Item Name	Stacking Type / Retraction Space	Required Parts (Selectable) (1) Upper Track	(2) Parallel Stacking Rail	(3) Corner Rail	Required Parts (4) Upper Roller Set for Corner	(5) Upper Roller Set for Parallel Stacking Panels	(6) Hanging Bracket 2 pcs	(7) End Cap for Hanging Bracket	(8) Adjustment Spanner (for Upper Roller Set)
			 Rail Connecting Plate 1 pc; Left stacking; Right stacking	 Rail Connecting Plate 2 pcs	 With cap; No cap			 The part set is black. White is also available.	
		250-037-223 FDPN40-QRC			250-037-220 FDPN40P-QRF		FDP40-DTR	250-121-142 FD70B-EC-BL	250-017-168 FD30-FSP
3 pcs 4 pcs 5 pcs 6 pcs	Left /Right	See "How to order" for details on the necessary quantity and types. In addition to choosing between left and right stacking for the upper track and stacking rail, there is a variety of lengths and depths, and different products should be chosen depending on the width and number of panels.							

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Sample Stacking Dimensions The drawing shows four left stacking/outer stacking panels.



*1 If one rail is not long enough, extend it with another upper track (1) and Rail Connecting Plate (17).

Panel partition: Door part open

When panels are stacked

Panel partition: Door part closed

*See the pages for each product for panel machining details.

No. of Panels	Door Width			Storage Rail Dimensions				Hanging Bracket Dimensions
	Sliding Panel	Stackable Panel	Stackable Door	P	D	Dsr	Lsr	Lh
3 - 4	500 - 700			340	160	183	623	240
	700 - 1100	700 - 900		540			963	340
5 - 6					260	283	823	

*Parts such as the stacking rail and hanging bracket differ depending on the number and width of panels. See “How to order” for details.

Optional Parts

Parts / Number of Panels	Optional Items										
	(9) Flush Bolt	(10) Seal (Black) White is also available.	(11) Seal Guide Rail (Black) White is also available.	(12) Bottom Tightener (Door Width 600-800) Door widths 800-1000 is also available. (Other sizes are made to order.)	(13) Lower Guide Pin (Light Grey) Light brown and dark brown are also available.	(14) Magnetic Guide Bracket (2 pcs)	(15) Lower Guide Rail	(16) Adjustment Spanner (for Lower Guide Pin) Dedicated Tool Z059 is also compatible.	(17) Rail Connecting Plate	(18) End Plate for Upper Track and Stacking Rail (Silver) Amber and white are also available.	(19) Recessed Pull (Chrome Plating) Satin Nickel and Dull Chrome are also available.
Item Code	250-024-525	250-024-526	250-024-527	250-024-528	250-029-828	250-026-500	250-026-501	250-022-252	250-025-761	250-029-723	100-010-097
Item Name	FDP40-DBL150HL	FDP40-DSP2500BL	FDP40-DSPU2500BL	FDP40-DBT800	FD30-MGFP-LGR	FD30-MGDB	FD30-MGDR1000	FD80-HHSP	FDP40-TRMS-CP	FDP40-TREP-SL	HH-P135CR
3 pcs	2 pcs	0 pc/1 pc*2	0 pc/1 pc*2	2 pcs	3 pcs	1Set	1 pc	–	–	–	1 pc
4 pcs	3 pcs	1 pc/2 pcs*2	1 pc/2 pcs*2	3 pcs							
5 pcs	4 pcs	2 pcs/3 pcs*2	2 pcs/3 pcs*2	4 pcs					1 pc		
6 pcs	5 pcs	3 pcs/4 pcs*2	3 pcs/4 pcs*2	5 pcs							

*2 Use the quantity indicated for the right side for A, C, F and J in “How to order”, and the quantity indicated for the left for all other types.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

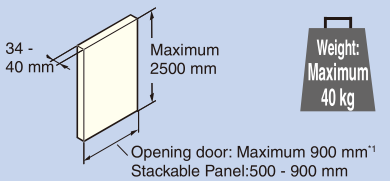
LAMP STACKABLE PARTITION DOOR SYSTEM (PERPENDICULAR STACKING SINGLE PARTITION) FDPN40V1D

Latest Info

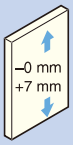
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

- A sliding partition door system that sits as flat as the wall. Simply sliding the panels open or closed can change the layout of an interior.
- The panels slide with reliable smoothness.
- Perpendicular stacking single panel type. The panels fit perpendicularly when stacked.

Panel Size (Per Panel)



Adjustment



*1 When using the optional part HES3D-V135LGR.

INSTRUCTION

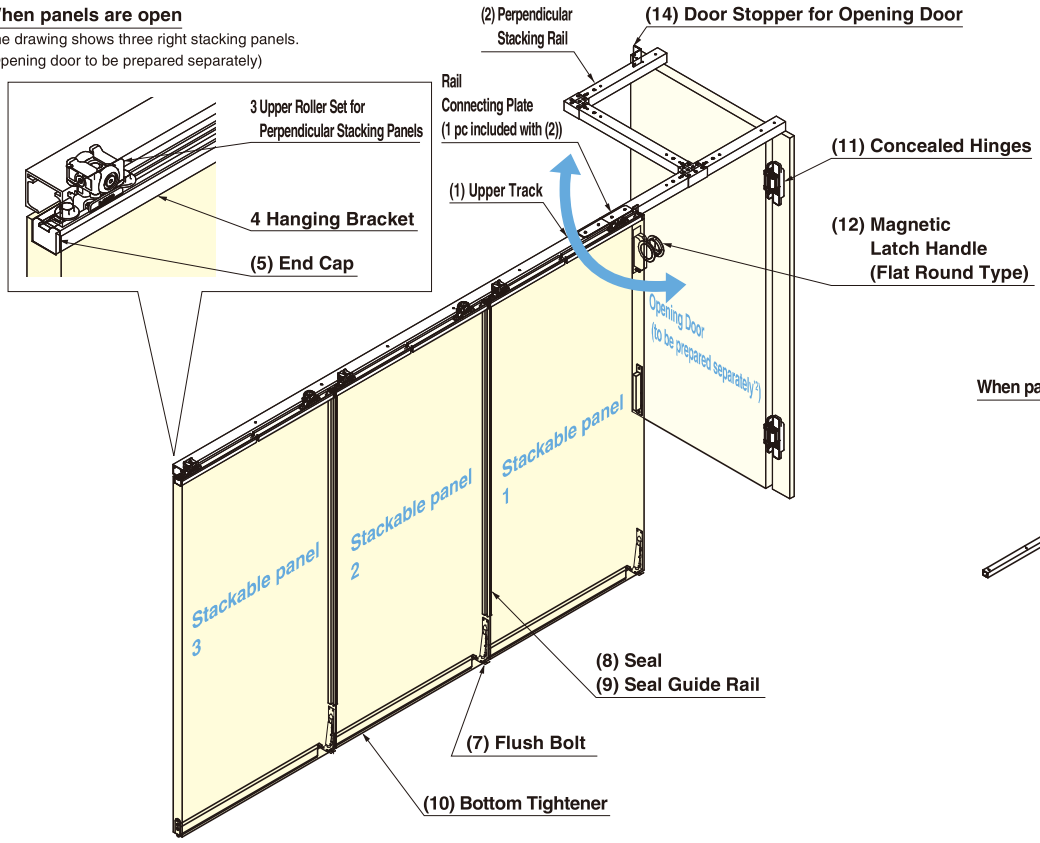
Remarks

- Be sure to check the precautions before installation.

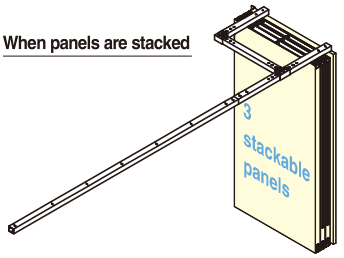
Feature

When panels are open

The drawing shows three right stacking panels.
(Opening door to be prepared separately)



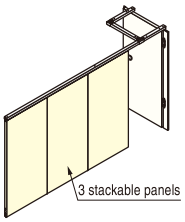
When panels are stacked



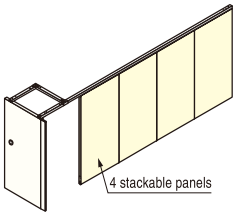
Installation Example

See Stacking Variations for other types of stacking. You'll also find an explanation of left stacking and right stacking.

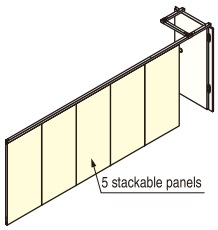
Right stacking/3 panels



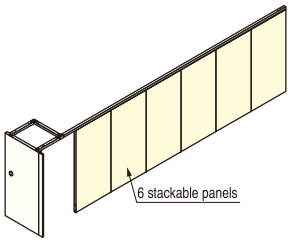
Left stacking/4 panels



Right stacking/5 panels

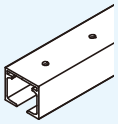
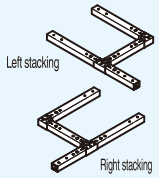
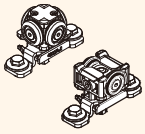
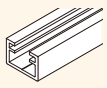


Left stacking/6 panels



Standard Part List

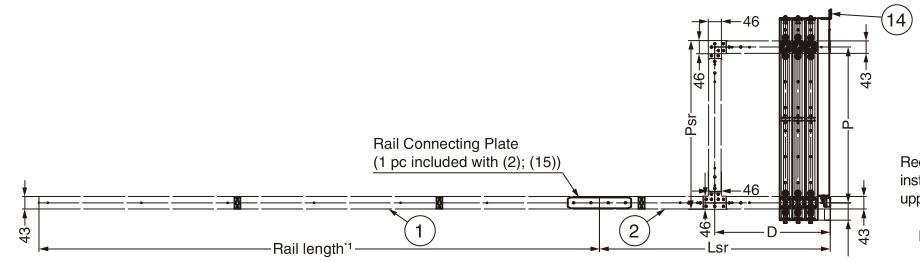
*2 The fixture for the opening door is an optional item. It is not included in the set of parts.

Parts / Number of Panels / Item Code / Item Name	Stacking Type / Retraction Space	Required Parts (Selectable) (1) Upper Track	(2) Perpendicular Stacking Rail, Rail Connecting Plate 1 pc	Required Parts (3) Upper Roller Set for Perpendicular Stacking Panels	(4) Hanging Bracket 2 pcs	(5) End Cap for Hanging Bracket	(6) Adjustment Spanner (for Upper Roller Set)
			 Left stacking / Right stacking				
Item Code / Item Name				250-037-222 FDPN40V-QR	FDP40-DTR	The part set is black. White is also available. 250-121-142 FD70B-EC-BL	250-017-168 FD30-FSP
3 pcs 4 pcs 5 pcs 6 pcs	Left /Right	See "How to order" for details on the necessary quantity and types. In addition to choosing between left and right stacking for the upper track and stacking rail, there is a variety of lengths and depths, and different products should be chosen depending on the width and number of panels.					

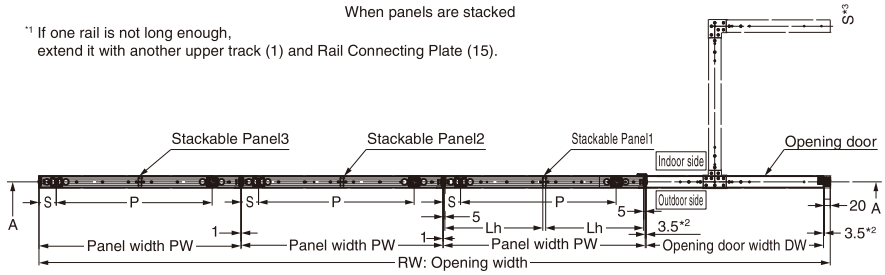
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Sample Stacking Dimensions The drawing shows three right stacking panels.

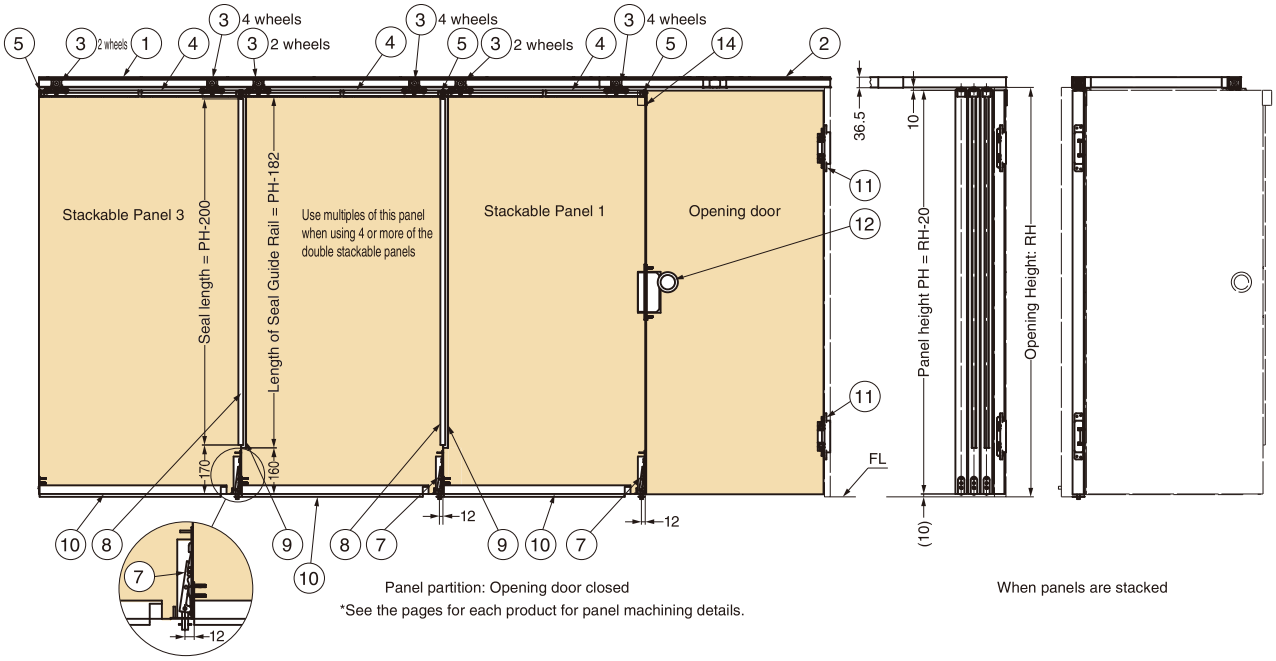


*1 If one rail is not long enough, extend it with another upper track (1) and Rail Connecting Plate (15).



*2 The specifications of the opening door are those applicable when using the HES3D-V135 Concealed Hinges

*3 The S dimension is a minimum of 60. This dimension differs as below depending on the panel width. See "How to order" for details on the stacking rail and hanging bracket.
- When 500 ≤ Panel Width PW ≤ 580: S = 60
- When 580 < Panel Width PW ≤ 700: S ≥ PW - 520 (60 is also possible by using the FDP40-DTR340 hanging bracket instead of FDP40-DTR240 and cutting it.)
- When 700 ≤ Panel Width PW ≤ 780: S = 60
- When 780 < Panel Width PW ≤ 900: S ≥ PW - 720



*See the pages for each product for panel machining details.

No. of Panels	Width of applicable stackable panel	Storage Rail Dimensions				Hanging Bracket Dimensions
		P	D	Psr	Lsr	Lh
3 - 4	500 - 700	340	400	386	660	240
5 - 6	700 - 900	540	540	586	800	340

*Parts such as the stacking rail and hanging bracket differ depending on the number and width of panels. See "How to order" for details.

Optional Parts

Parts / Number of Panels	Optional Items									
	(7) Flush Bolt	(8) Seal (Black) White is also available.	(9) Seal Guide Rail (Black) White is also available.	(10) Bottom Tightener (Door Width 600-800) Door widths 800-1000 is also available. (Other sizes are made to order.)	(11) Concealed Hinge	(12) Magnetic Latch Handle (Flat Round Type)	(13) Magnetic Latch Handle (Flat Square Type)	(14) Door Stopper for Opening Door	(15) Rail Connecting Plate	(16) End Plate for Upper Track and Stacking Rail (Silver) Amber and white are also available.
Item Code / Item Name	250-024-525 FDP40-DBL150HL	250-024-526 FDP40-DSP2500BL	250-024-527 FDP40-DSPU2500BL	250-024-528 FDP40-DBT800	170-020-804 HES3D-V135LGR	260-024-534 MLH-SN	260-028-998 MLHS-SN	250-024-535 FDP40V-DTST	250-025-761 FDP40-TRMS-CP	250-029-723 FDP40-TREP-SL
3 pcs	3 pcs	2 pcs	2 pcs	3 pcs	2 - 3 pcs	1 pc	1 pc	1 pc	–	–
4 pcs	4 pcs	3 pcs	3 pcs	4 pcs						
5 pcs	5 pcs	4 pcs	4 pcs	5 pcs					1 pc	
6 pcs	6 pcs	5 pcs	5 pcs	6 pcs						

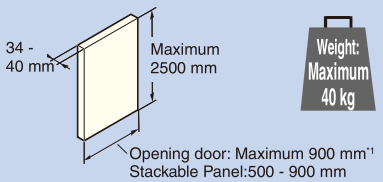
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP STACKABLE PARTITION DOOR SYSTEM (PERPENDICULAR STACKING DOUBLE PARTITION) FDPN40V2D

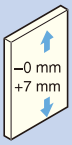
Latest Info

- A sliding partition door system that sits as flat as the wall. Simply sliding the panels open or closed can change the layout of an interior.
- The panels slide with reliable smoothness.
- Perpendicular stacking double panel type enabling corner partitioning. The panels fit perpendicularly when stacked.

Panel Size (Per Panel)



Adjustment



*1 When using the optional part HES3D-V135LGR.

INSTRUCTION

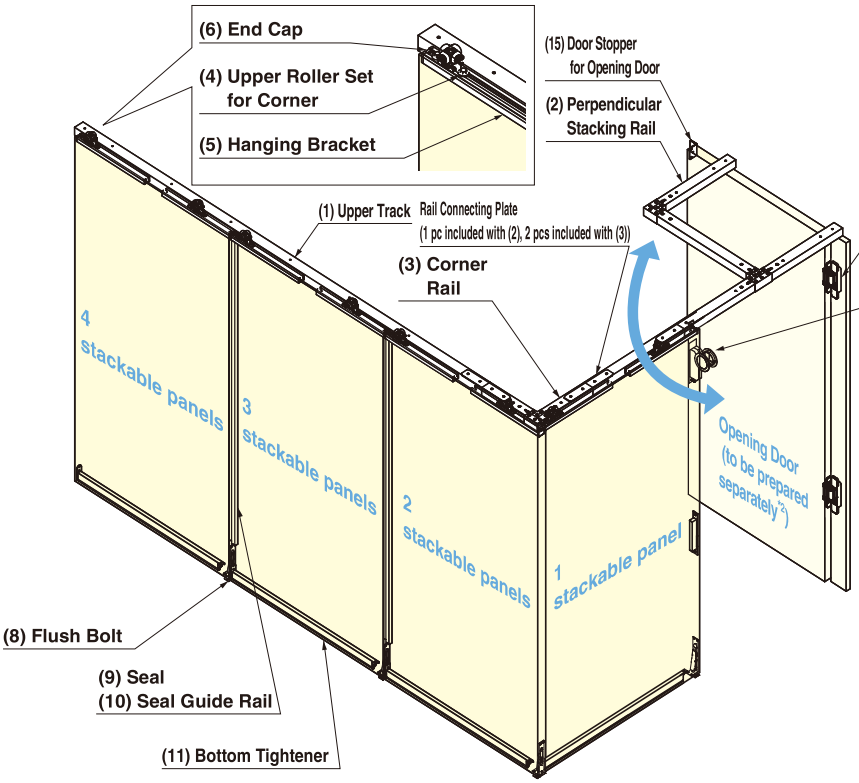
Remarks

- Be sure to check the precautions before installation.

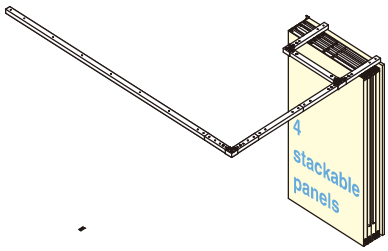
Feature

When panels are open

The drawing shows four right stacking/inner stacking panels. (Opening door to be prepared separately)



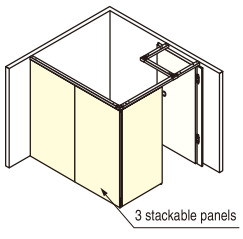
When panels are stacked



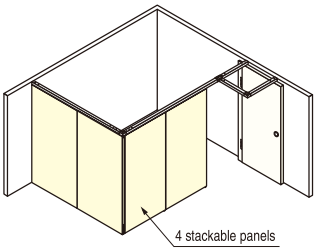
Installation Example

See Stacking Variations for other types of stacking. You'll also find an explanation of left stacking, right stacking, inner stacking and outer stacking.

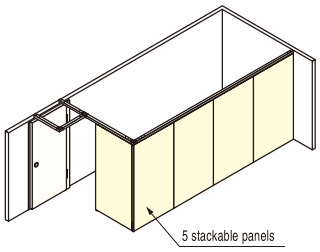
Right stacking/inner stacking/3 panels



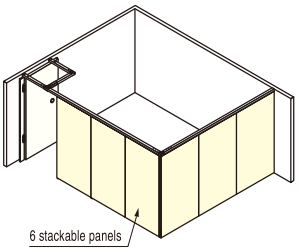
Left stacking/outer stacking/4 panels



Right stacking/outer stacking/5 panels

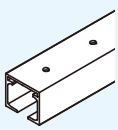
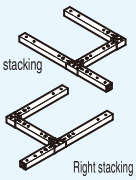
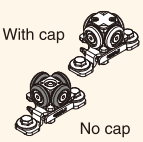
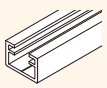
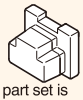


Left stacking/inner stacking/6 panels



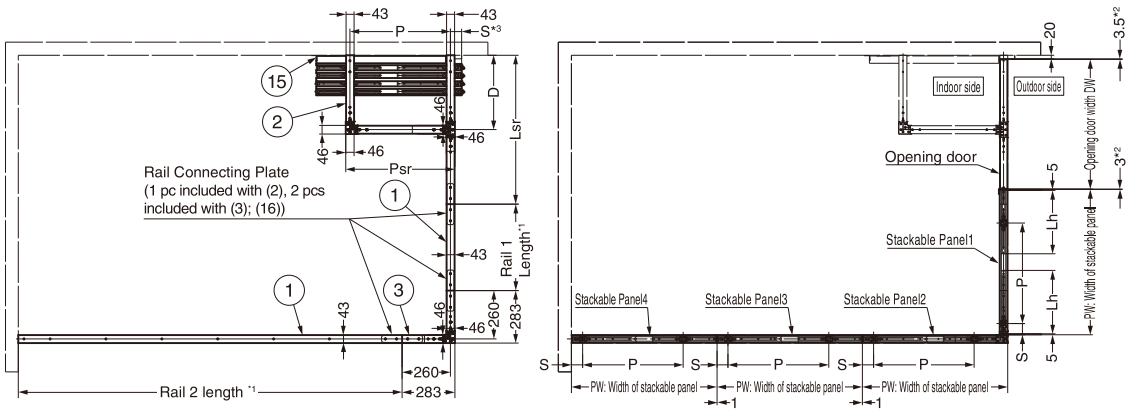
Standard Part List

*2 The fixture for the opening door is an optional item. It is not included in the set of parts.

Parts / Number of Panels / Item Code / Item Name	Stacking Type / Retraction Space	Required Parts (Selectable) (1) Upper Track	(2) Perpendicular Stacking Rail	(3) Corner Rail	Required Parts (4) Upper Roller Set for Corner	(5) Hanging Bracket 2 pcs	(6) End Cap for Hanging Bracket	(7) Adjustment Spanner (for Upper Roller Set)
			Rail Connecting Plate 1 pc	Rail Connecting Plate 2 pcs				
							 The part set is black. White is also available.	
					250-037-223 FDPN40-QRC	FDP40-DTR	250-121-142 FD70B-EC-BL	250-017-168 FD30-FSP
3 pcs 4 pcs 5 pcs 6 pcs	Left /Right	See "How to order" for details on the necessary quantity and types. In addition to choosing between left and right stacking for the upper track and stacking rail, there is a variety of lengths and depths, and different products should be chosen depending on the width and number of panels.						

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Sample Stacking Dimensions The drawing shows four right stacking/inner stacking panels.

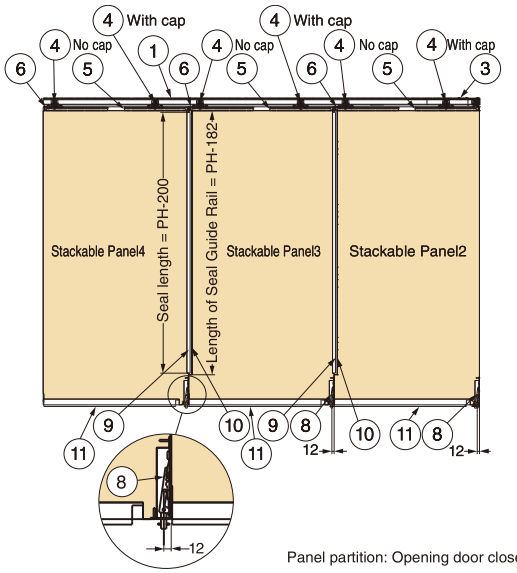


*1 If one rail is not long enough, extend it with another upper track (1) and Rail Connecting Plate (16).

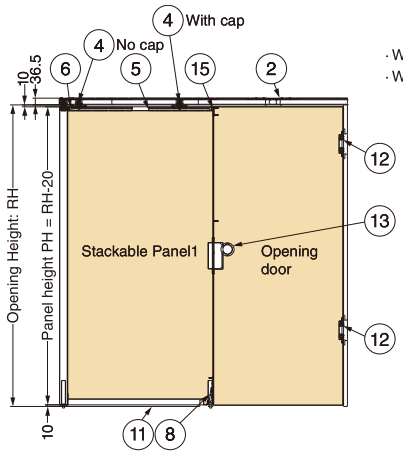
*2 The specifications of the opening door are those applicable when using the HES3D-V135 Concealed Hinges

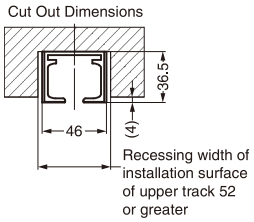
*3 The S dimension is a minimum of 60. This dimension differs as below depending on the panel width. See "How to order" for details on the stacking rail and hanging bracket.
- When 500 ≤ Panel Width PW ≤ 580: S = 60
- When 580 < Panel Width PW ≤ 700: S ≥ PW - 520 (60 is also possible by using the FDP40-DTR340 hanging bracket instead of FDP40-DTR240 and cutting it.)
- When 700 ≤ Panel Width PW ≤ 780: S = 60
- When 780 < Panel Width PW ≤ 900: S ≥ PW - 720

When panels are stacked



Panel partition: Opening door closed





Recessing width of installation surface of upper track

*See the pages for each product for panel machining details.

No. of Panels	Width of applicable stackable panel	Storage Rail Dimensions				Hanging Bracket Dimensions
		P	D	Psr	Lsr	Lh
3 - 4	500 - 700	340	400	386	660	240
	700 - 900	540		586	800	340
5 - 6			540			

*Parts such as the stacking rail and hanging bracket differ depending on the number and width of panels. See "How to order" for details.

Optional Parts

Parts / Number of Panels	Optional Items									
	(8) Flush Bolt	(9) Seal (Black) White is also available.	(10) Seal Guide Rail (Black) White is also available.	(11) Bottom Tightener (Door Width 600-800) Door widths 800-1000 is also available. (Other sizes are made to order.)	(12) Concealed Hinge	(13) Magnetic Latch Handle (Flat Round Type)	(14) Magnetic Latch Handle (Flat Square Type)	(15) Door Stopper for Opening Door	(16) Rail Connecting Plate	(17) End Plate for Upper Track and Stacking Rail (Silver) Amber and white are also available.
Item Code	250-024-525	250-024-526	250-024-527	250-024-528	170-020-804	260-024-534	260-028-998	250-024-535	250-025-761	250-029-723
Item Name	FDP40-DBL150HL	FDP40-DSP2500BL	FDP40-DSPU2500BL	FDP40-DBT800	HES3D-V135LGR	MLH-SN	MLHS-SN	FDP40V-DTST	FDP40-TRMS-CP	FDP40-TREP-SL
3 pcs	3 pcs	1 pc	1 pc	3 pcs	2 - 3 pcs	1 pc	1 pc	1 pc	–	–
4 pcs	4 pcs	2 pcs	2 pcs	4 pcs						
5 pcs	5 pcs	3 pcs	3 pcs	5 pcs					1 pc	
6 pcs	6 pcs	4 pcs	4 pcs	6 pcs						

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

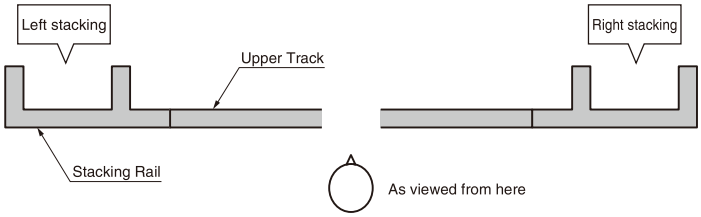
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

How to order: FDPN40P1D Parallel Stacking Single Partition

1. Select the stacking type from "Stacking Variations"

2. With the symbol of the selected stacking type, check the required parts and quantities in the "Selection Table"

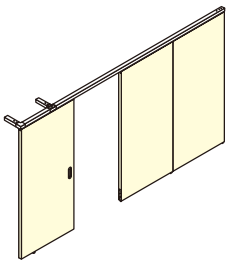
Principle of left and right stacking



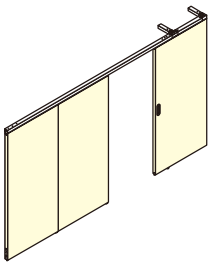
If the stacking part of the panel is stacked on the left (as viewed from its opposite side), the panel is a left stacking panel.
If the stacking part is stacked on the right, it is a right stacking panel.

This principle enables two different patterns even with the same number of panels.

Left stacking



Right stacking

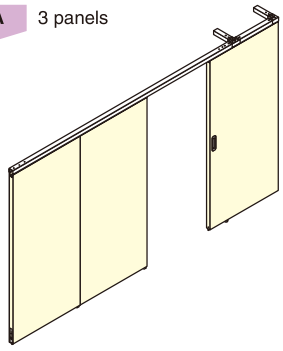


Stacking Variations

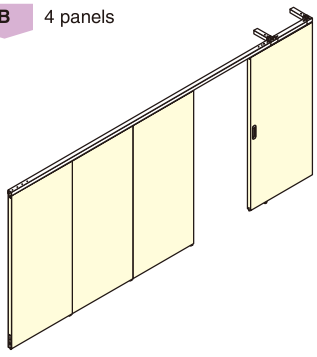
The panels below are right stacking.

Right stacking can be changed to left with the same number of panels. See above for details.

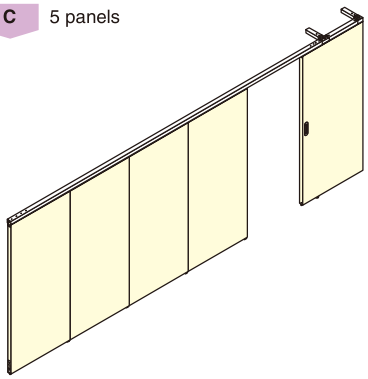
A 3 panels



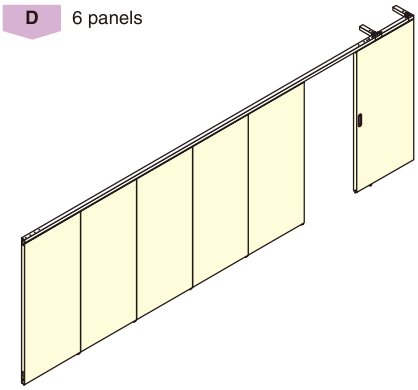
B 4 panels



C 5 panels



D 6 panels



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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FDPN40P1D PARALLEL STACKING SINGLE PARTITION

*Illustrations of stacking variations show the right stacking type. For the left stacking type, look at the "Left stacking" column.

Selection Table

Compatible stacking variations: A B A B C D

Purchase the quantity indicated in this table. 1 part set is required.

Required Parts				Stackable Panel, Stackable Door: Panel Width	500 - 700				700 - 1000							
				No. of Panels	3 pcs		4 pcs		3 pcs		4 pcs		5 pcs		6 pcs	
	Stacking Type		Item Code Item Name		Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
	Upper Track	Length 2000 mm	250-037-213 FDP40-TRM2000SL	Silver												
			250-037-214 FDP40-TRM2000UM	Amber									1	1	1	1
			250-037-215 FDP40-TRM2000WT	White												
		Length 3000 mm	250-024-507 FDP40-TRM3000SL	Silver												
			250-024-509 FDP40-TRM3000UM	Amber	1	1			1	1			1	1		
			250-024-511 FDP40-TRM3000WT	White												
		Length 4000 mm	250-024-508 FDP40-TRM4000SL	Silver												
			250-024-510 FDP40-TRM4000UM	Amber			1	1			1	1			1	1
			250-024-512 FDP40-TRM4000WT	White												
	Rail Connecting Plate		250-025-761 FDP40-TRMS-CP	-									1	1	1	1
	Stacking Rail	Left stacking	250-037-189 FDPN40P-TRMSL-P34D16-SL	Silver												
			250-037-190 FDPN40P-TRMSL-P34D16-UM	Amber	1		1									
			250-037-191 FDPN40P-TRMSL-P34D16-WT	White												
			250-037-183 FDPN40P-TRMSL-P54D16-SL	Silver												
			250-037-184 FDPN40P-TRMSL-P54D16-UM	Amber					1		1					
			250-037-185 FDPN40P-TRMSL-P54D16-WT	White												
			250-037-177 FDPN40P-TRMSL-P54D26-SL	Silver												
			250-037-178 FDPN40P-TRMSL-P54D26-UM	Amber									1		1	
			250-037-179 FDPN40P-TRMSL-P54D26-WT	White												
		Right stacking	250-037-192 FDPN40P-TRMSR-P34D16-SL	Silver												
			250-037-193 FDPN40P-TRMSR-P34D16-UM	Amber		1		1								
			250-037-194 FDPN40P-TRMSR-P34D16-WT	White												
			250-037-186 FDPN40P-TRMSR-P54D16-SL	Silver												
			250-037-187 FDPN40P-TRMSR-P54D16-UM	Amber						1		1				
			250-037-188 FDPN40P-TRMSR-P54D16-WT	White												
			250-037-180 FDPN40P-TRMSR-P54D26-SL	Silver												
			250-037-181 FDPN40P-TRMSR-P54D26-UM	Amber										1		1
			250-037-182 FDPN40P-TRMSR-P54D26-WT	White												
	Required Parts		Part set (see the table below for contents)		250-041-895 FDPN40P1D-P34-3P		250-041-896 FDPN40P1D-P34-4P		250-041-897 FDPN40P1D-P54-3P		250-041-898 FDPN40P1D-P54-4P		250-041-899 FDPN40P1D-P54-5P		250-041-900 FDPN40P1D-P54-6P	

Contents of set of required parts

Upper Roller Set for Parallel Stacking Door	250-037-219 FDPN40P-QRF-ST	1	1	1	1	1	1
Upper Roller Set for Parallel Stacking Panels	250-037-220 FDPN40P-QRF	1	2	1	2	3	4
Upper Roller Set for Parallel Sliding Panels	250-037-221 FDPN40P-QRL	1	1	1	1	1	1
Hanging Bracket 2 pcs	250-037-224 FDP40-DTR240	3	4				
	250-024-505 FDP40-DTR340			3	4	5	6
End Caps (Black)*1	250-121-142 FD70B-EC-BL	6	8	6	8	10	12
Adjustment Spanner (for Upper Roller Set)	250-017-168 FD30-FSP	1	1	1	1	1	1

*1 White is also available. *See the pages for each product for details on the quantities of optional parts.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

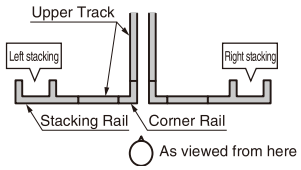
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How to order: FDPN40P2D Parallel Stacking Double partition

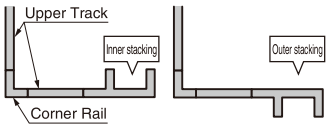
1. Select the stacking type from "Stacking Variations"

2. With the symbol of the selected stacking type, check the required parts and quantities in the "Selection Table"

Principle of left/right and inner/outer stacking



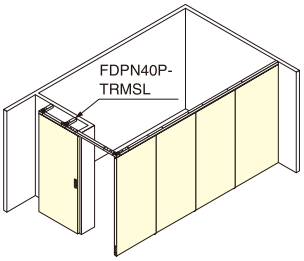
If the stacking part of the panel is stacked on the left (as viewed from its opposite side), the panel is a left stacking panel. If the stacking part is stacked on the right, it is a right stacking panel.



If the panel is stacked inside the corners of the partition, it is an inner stacking panel. If it is stacked outside the corners, it is an outer stacking panel.

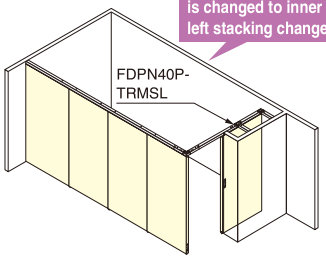
This principle enables four different patterns even with the same number of panels.

Left stacking/inner stacking

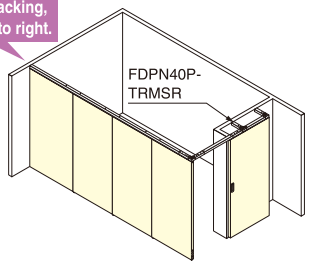


Left stacking/outer stacking

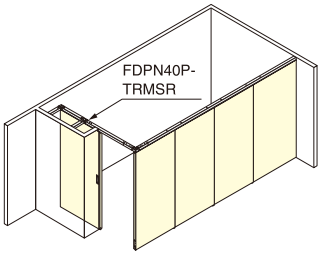
Note that when outer stacking is changed to inner stacking, left stacking changes to right.



Right stacking/inner stacking



Right stacking/outer stacking

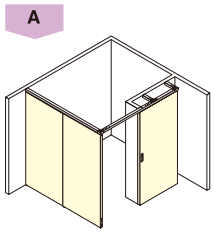


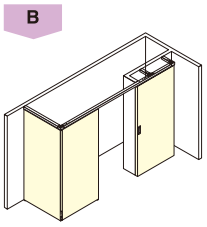
Stacking Variations

The panels below are right stacking/inner stacking.

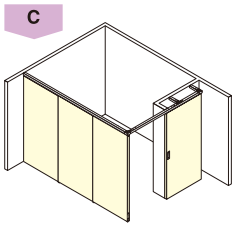
Right stacking can be changed to left, or inner to outer, with the same number of panels. See above for details.

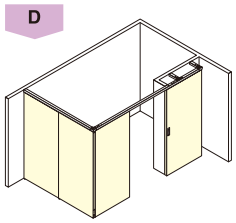
3 panels

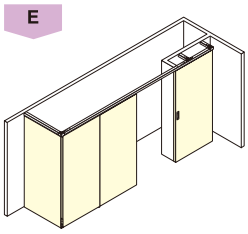




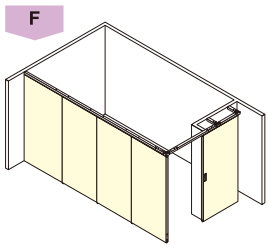
4 panels

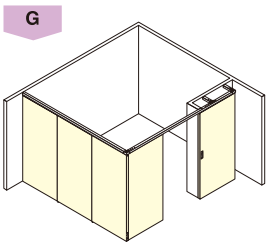


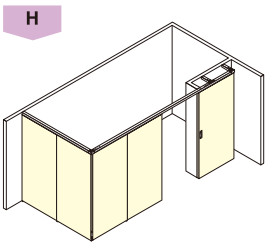


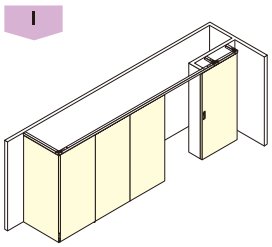


5 panels

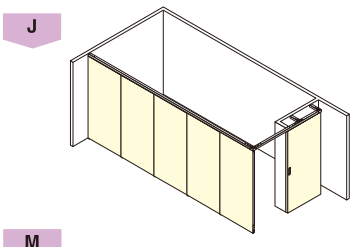


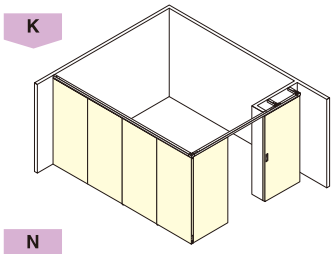


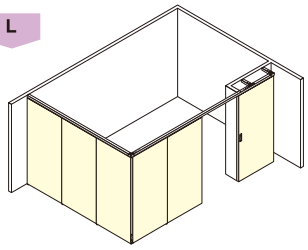


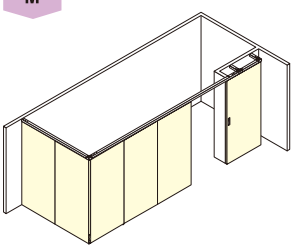


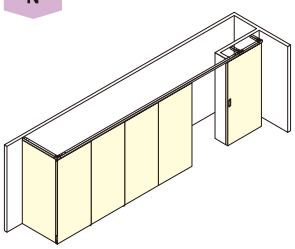
6 panels











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FDPN40P2D PARALLEL STACKING DOUBLE PARTITION

*Illustrations of stacking variations show the right stacking type. For the left stacking type, look at the "Left stacking" column.

Selection Table

Compatible stacking variations: A· B | C - E | A· B | C - E | F - I | J - N

Required Parts

Stackable Panel, Stackable Door: Panel Width				500 - 700				700 - 1000							
No. of Panels				3 pcs		4 pcs		3 pcs		4 pcs		5 pcs		6 pcs	
Stacking Type		Item Code Item Name		Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
Upper Track	Length 2000 mm	250-037-213 FDP40-TRM2000SL	Silver	Purchase the quantity indicated in this table. 1 part set is required.								1	1	1	1
		250-037-214 FDP40-TRM2000UM	Amber												
		250-037-215 FDP40-TRM2000WT	White												
	Length 3000 mm	250-024-507 FDP40-TRM3000SL	Silver	1	1			1	1			1	1		
		250-024-509 FDP40-TRM3000UM	Amber												
		250-024-511 FDP40-TRM3000WT	White												
	Length 4000 mm	250-024-508 FDP40-TRM4000SL	Silver												
		250-024-510 FDP40-TRM4000UM	Amber			1	1			1	1			1	1
		250-024-512 FDP40-TRM4000WT	White												
Rail Connecting Plate		250-025-761 FDP40-TRMS-CP	-									1	1	1	1
Stacking Rail	Left stacking	250-037-189 FDPN40P-TRMSL-P34D16-SL	Silver	1		1									
		250-037-190 FDPN40P-TRMSL-P34D16-UM	Amber												
		250-037-191 FDPN40P-TRMSL-P34D16-WT	White												
		250-037-183 FDPN40P-TRMSL-P54D16-SL	Silver					1		1					
		250-037-184 FDPN40P-TRMSL-P54D16-UM	Amber												
		250-037-185 FDPN40P-TRMSL-P54D16-WT	White												
		250-037-177 FDPN40P-TRMSL-P54D26-SL	Silver									1		1	
		250-037-178 FDPN40P-TRMSL-P54D26-UM	Amber												
		250-037-179 FDPN40P-TRMSL-P54D26-WT	White												
	Right stacking	250-037-192 FDPN40P-TRMSR-P34D16-SL	Silver		1		1								
		250-037-193 FDPN40P-TRMSR-P34D16-UM	Amber												
		250-037-194 FDPN40P-TRMSR-P34D16-WT	White												
		250-037-186 FDPN40P-TRMSR-P54D16-SL	Silver						1		1				
		250-037-187 FDPN40P-TRMSR-P54D16-UM	Amber												
		250-037-188 FDPN40P-TRMSR-P54D16-WT	White												
		250-037-180 FDPN40P-TRMSR-P54D26-SL	Silver										1		1
		250-037-181 FDPN40P-TRMSR-P54D26-UM	Amber												
		250-037-182 FDPN40P-TRMSR-P54D26-WT	White												
Corner Rail		250-037-216 FDPN40-TRMC260-SL	Silver	1	1	1	1	1	1	1	1	1	1	1	1
		250-037-217 FDPN40-TRMC260-UM	Amber												
		250-037-218 FDPN40-TRMC260-WT	White												
Required Parts	Part set (see the table below for contents)			250-041-901 FDPN40P2D-P34-3P		250-041-902 FDPN40P2D-P34-4P		250-041-903 FDPN40P2D-P54-3P		250-041-904 FDPN40P2D-P54-4P		250-041-905 FDPN40P2D-P54-5P		250-041-906 FDPN40P2D-P54-6P	

Contents of set of required parts

Upper Roller Set for Corner	250-037-223 FDPN40-QRC		2		3		2		3		4		5
Upper Roller Set for Parallel Stacking Panels	250-037-220 FDPN40P-QRF		1		1		1		1		1		1
Hanging Bracket 2 pcs	250-037-224 FDP40-DTR240		3		4								
	250-024-505 FDP40-DTR340						3		4		5		6
End Caps (Black)*1	250-121-142 FD70B-EC-BL		6		8		6		8		10		12
Adjustment Spanner (for Upper Roller Set)	250-017-168 FD30-FSP		1		1		1		1		1		1

*1 White is also available. *See the pages for each product for details on the quantities of optional parts.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

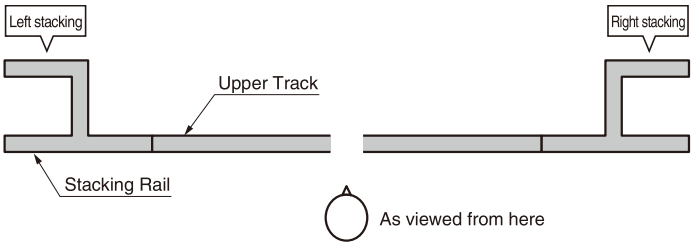
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How to order: FDPN40V1D Perpendicular Stacking Single Partition

1. Select the stacking type from "Stacking Variations"

2. With the symbol of the selected stacking type, check the required parts and quantities in the "Selection Table"

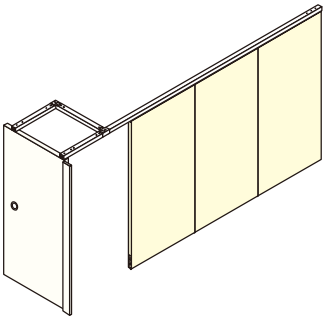
Principle of left and right stacking



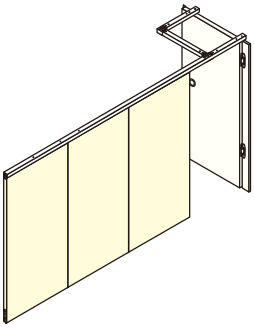
If the stacking part of the panel is stacked on the left (as viewed from its opposite side), the panel is a left stacking panel. If the stacking part is stacked on the right, it is a right stacking panel.

This principle enables two different patterns even with the same number of panels.

Left stacking



Right stacking

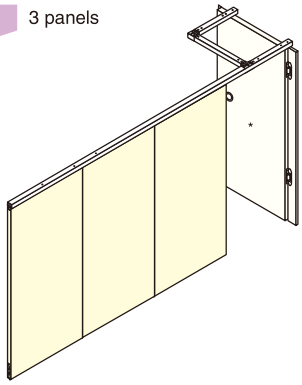


Stacking Variations

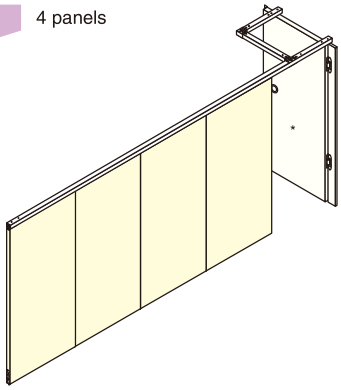
The panels below are right stacking.

Right stacking can be changed to left with the same number of panels. See above for details.

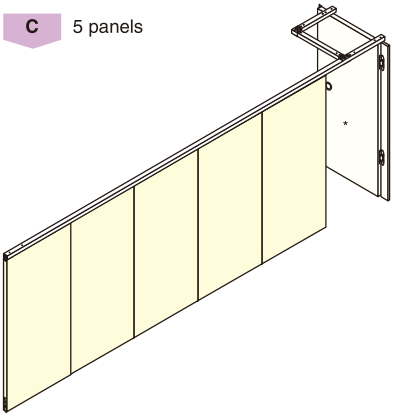
A 3 panels



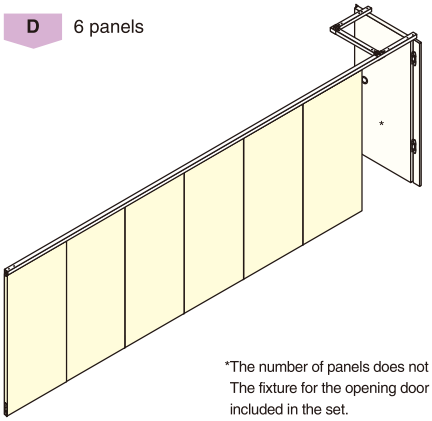
B 4 panels



C 5 panels



D 6 panels



*The number of panels does not include the opening door. The fixture for the opening door is an optional item, and is not included in the set.

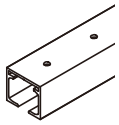
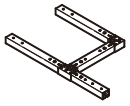
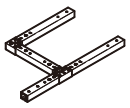
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

FDPN40V1D PERPENDICULAR STACKING SINGLE PARTITION

*Illustrations of stacking variations show the right stacking type. For the left stacking type, look at the "Left stacking" column.

Selection Table

Compatible stacking variations: A | B | A | B | C | D

	Stackable Panel, Stackable Door: Panel Width				500 - 700				700 - 900							
	No. of Panels				3 pcs		4 pcs		3 pcs		4 pcs		5 pcs		6 pcs	
	Stacking Type		Item Code Item Name		Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
Required Parts	Upper Track 	Length 2000 mm	250-037-213 FDP40-TRM2000SL	Silver	Purchase the quantity indicated in this table. 1 part set is required.								1	1	1	1
			250-037-214 FDP40-TRM2000UM	Amber												
			250-037-215 FDP40-TRM2000WT	White												
		Length 3000 mm	250-024-507 FDP40-TRM3000SL	Silver	1	1			1	1			1	1		
			250-024-509 FDP40-TRM3000UM	Amber												
			250-024-511 FDP40-TRM3000WT	White												
		Length 4000 mm	250-024-508 FDP40-TRM4000SL	Silver												
			250-024-510 FDP40-TRM4000UM	Amber			1	1			1	1			1	1
			250-024-512 FDP40-TRM4000WT	White												
	Rail Connecting Plate		250-025-761 FDP40-TRMS-CP	-									1	1	1	1
	Stacking Rail 	Left stacking	250-037-207 FDPN40V-TRMSL-P34D40-SL	Silver	1		1									
			250-037-208 FDPN40V-TRMSL-P34D40-UM	Amber												
			250-037-209 FDPN40V-TRMSL-P34D40-WT	White												
			250-037-201 FDPN40V-TRMSL-P54D40-SL	Silver												
			250-037-202 FDPN40V-TRMSL-P54D40-UM	Amber					1		1					
			250-037-203 FDPN40V-TRMSL-P54D40-WT	White												
			250-037-195 FDPN40V-TRMSL-P54D54-SL	Silver												
			250-037-196 FDPN40V-TRMSL-P54D54-UM	Amber									1		1	
			250-037-197 FDPN40V-TRMSL-P54D54-WT	White												
		Right stacking	250-037-210 FDPN40V-TRMSR-P34D40-SL	Silver												
			250-037-211 FDPN40V-TRMSR-P34D40-UM	Amber		1		1								
			250-037-212 FDPN40V-TRMSR-P34D40-WT	White												
			250-037-204 FDPN40V-TRMSR-P54D40-SL	Silver												
			250-037-205 FDPN40V-TRMSR-P54D40-UM	Amber						1		1				
			250-037-206 FDPN40V-TRMSR-P54D40-WT	White												
			250-037-198 FDPN40V-TRMSR-P54D54-SL	Silver												
			250-037-199 FDPN40V-TRMSR-P54D54-UM	Amber										1		1
			250-037-200 FDPN40V-TRMSR-P54D54-WT	White												
Required Parts	Part set (see the table below for contents)				250-041-907*1 FDPN40V1D-P34-3P		250-041-908*1 FDPN40V1D-P34-4P		250-041-909*2 FDPN40V1D-P54-3P		250-041-910*2 FDPN40V1D-P54-4P		250-041-911 FDPN40V1D-P54-5P		250-041-912 FDPN40V1D-P54-6P	

Contents of set of required parts								
	Upper Roller Set for Perpendicular Stacking Panels	250-037-222 FDPN40V-QR	3	4	3	4	5	6
	Hanging Bracket 2 pcs	250-037-224 FDP40-DTR240	3	4				
		250-024-505 FDP40-DTR340			3	4	5	6
	End Caps (Black)*3	250-121-142 FD70B-EC-BL	6	8	6	8	10	12
	Adjustment Spanner (for Upper Roller Set)	250-017-168 FD30-FSP	1	1	1	1	1	1

*1 When using a panel with a width of 580-700, to shorten the length from the hanging bracket to the end of the panel, use the part set in *2 instead of the one in *1. See *3 on P.591 for details.
*3 White is also available.
*See the pages for each product for details on the quantities of optional parts.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

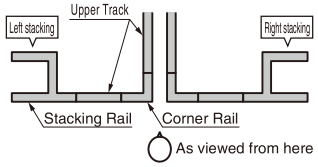
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

How to order: FDPN40V2D Perpendicular Stacking Double Partition

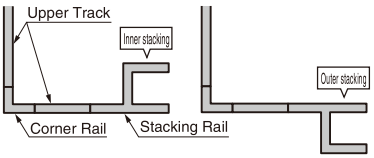
1. Select the stacking type from "Stacking Variations"

2. With the symbol of the selected stacking type, check the required parts and quantities in the "Selection Table"

Principle of left/right and inner/outer stacking



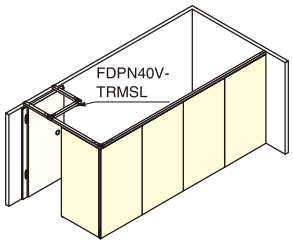
If the stacking part of the panel is stacked on the left (as viewed from its opposite side), the panel is a left stacking panel.
If the stacking part is stacked on the right, it is a right stacking panel.



If the panel is stacked inside the corners of the partition, it is an inner stacking panel.
If it is stacked outside the corners, it is an outer stacking panel.

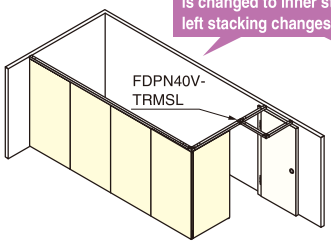
This principle enables four different patterns even with the same number of panels.

Left stacking/inner stacking

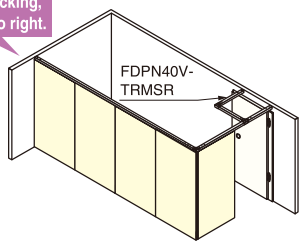


Left stacking/outer stacking

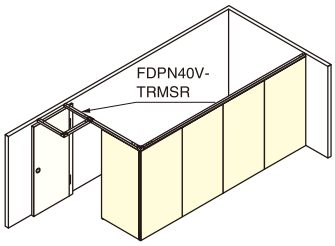
Note that when outer stacking is changed to inner stacking, left stacking changes to right.



Right stacking/inner stacking



Right stacking/outer stacking



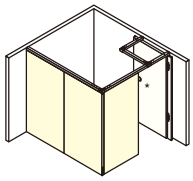
Stacking Variations

The panels below are right stacking/inner stacking.

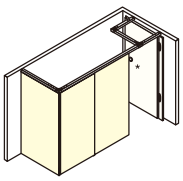
Right stacking can be changed to left, or inner to outer, with the same number of panels. See above for details.

3 panels

A

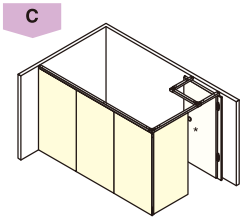


B

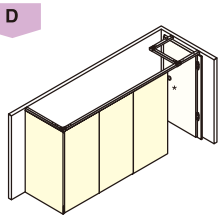


4 panels

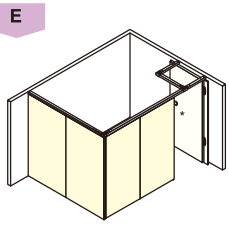
C



D

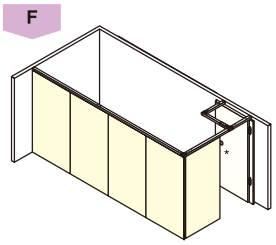


E

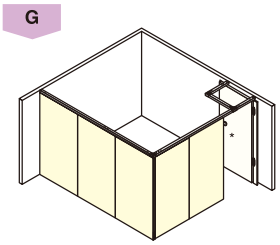


5 panels

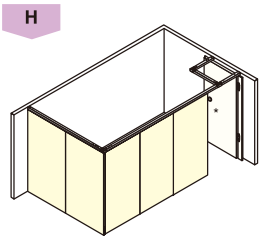
F



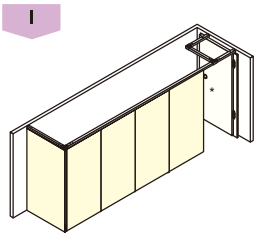
G



H

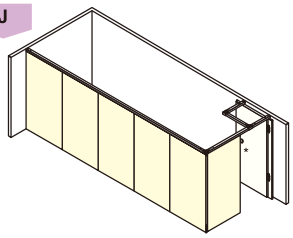


I

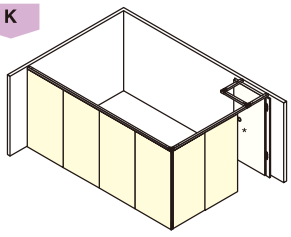


6 panels

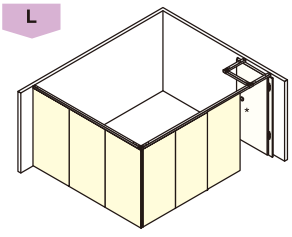
J



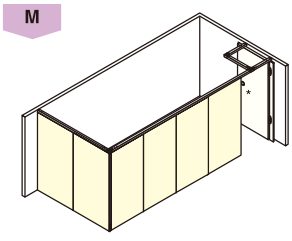
K



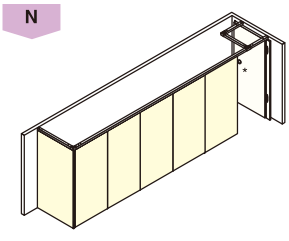
L



M



N



*The number of panels does not include the opening door. The fixture for the opening door is an optional item, and is not included in the set.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

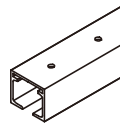
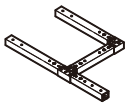
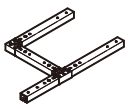
FDPN40V2D PERPENDICULAR STACKING DOUBLE PARTITION

*Illustrations of stacking variations show the right stacking type. For the left stacking type, look at the "Left stacking" column.

Selection Table

Compatible stacking variations: A · B | C - E | A · B | C - E | F - I | J - N

Required Parts

Stackable Panel, Stackable Door: Panel Width				500 - 700				700 - 900							
No. of Panels				3 pcs		4 pcs		3 pcs		4 pcs		5 pcs		6 pcs	
Stacking Type		Item Code Item Name		Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
Upper Track 	Length 2000 mm	250-037-213 FDP40-TRM2000SL	Silver	Purchase the quantity indicated in this table. 1 part set is required.								1	1	1	1
		250-037-214 FDP40-TRM2000UM	Amber												
		250-037-215 FDP40-TRM2000WT	White												
	Length 3000 mm	250-024-507 FDP40-TRM3000SL	Silver	1	1			1	1			1	1		
		250-024-509 FDP40-TRM3000UM	Amber												
		250-024-511 FDP40-TRM3000WT	White												
	Length 4000 mm	250-024-508 FDP40-TRM4000SL	Silver			1	1			1	1			1	1
		250-024-510 FDP40-TRM4000UM	Amber												
		250-024-512 FDP40-TRM4000WT	White												
Rail Connecting Plate		250-025-761 FDP40-TRMS-CP	-									1	1	1	1
Stacking Rail 	Left stacking	250-037-207 FDPN40V-TRMSL-P34D40-SL	Silver	1		1									
		250-037-208 FDPN40V-TRMSL-P34D40-UM	Amber												
		250-037-209 FDPN40V-TRMSL-P34D40-WT	White												
		250-037-201 FDPN40V-TRMSL-P54D40-SL	Silver					1		1					
		250-037-202 FDPN40V-TRMSL-P54D40-UM	Amber												
		250-037-203 FDPN40V-TRMSL-P54D40-WT	White												
		250-037-195 FDPN40V-TRMSL-P54D54-SL	Silver									1		1	
		250-037-196 FDPN40V-TRMSL-P54D54-UM	Amber												
		250-037-197 FDPN40V-TRMSL-P54D54-WT	White												
	Right stacking	250-037-210 FDPN40V-TRMSR-P34D40-SL	Silver		1		1								
		250-037-211 FDPN40V-TRMSR-P34D40-UM	Amber												
		250-037-212 FDPN40V-TRMSR-P34D40-WT	White												
		250-037-204 FDPN40V-TRMSR-P54D40-SL	Silver						1		1				
		250-037-205 FDPN40V-TRMSR-P54D40-UM	Amber												
		250-037-206 FDPN40V-TRMSR-P54D40-WT	White												
		250-037-198 FDPN40V-TRMSR-P54D54-SL	Silver										1		1
		250-037-199 FDPN40V-TRMSR-P54D54-UM	Amber												
		250-037-200 FDPN40V-TRMSR-P54D54-WT	White												
Corner Rail 		250-037-216 FDPN40-TRMC260-SL	Silver	1	1	1	1	1	1	1	1	1	1	1	1
		250-037-217 FDPN40-TRMC260-UM	Amber												
		250-037-218 FDPN40-TRMC260-WT	White												
Required Parts	Part set (see the table below for contents)			250-041-913*1 FDPN40V2D-P34-3P		250-041-914*1 FDPN40V2D-P34-4P		250-041-915*2 FDPN40V2D-P54-3P		250-041-916*2 FDPN40V2D-P54-4P		250-041-917 FDPN40V2D-P54-5P		250-041-918 FDPN40V2D-P54-6P	

Contents of set of required parts

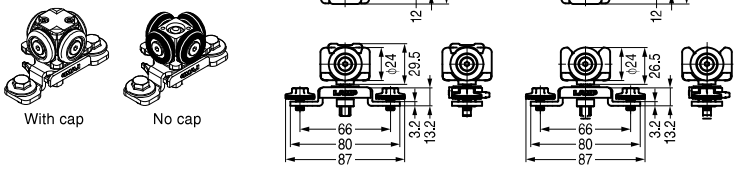
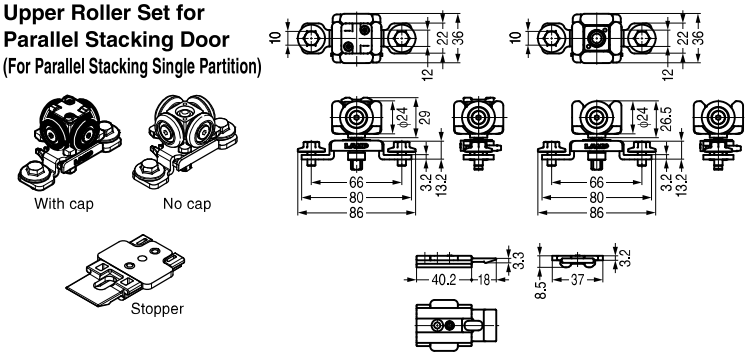
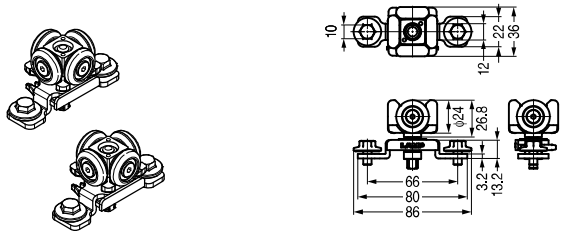
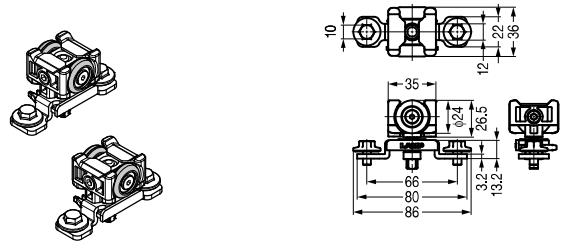
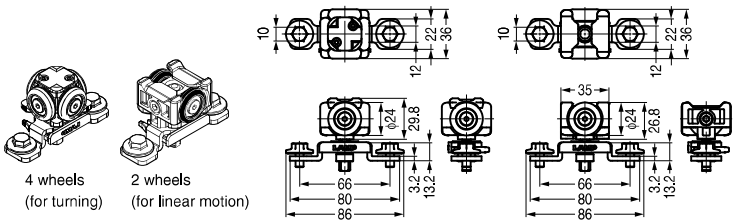
Upper Roller Set for Corner	250-037-223 FDPN40-QRC		3		4		3		4		5		6
Hanging Bracket 2 pcs	250-037-224 FDP40-DTR240		3		4								
	250-024-505 FDP40-DTR340						3		4		5		6
End Caps (Black)*3	250-121-142 FD70B-EC-BL		6		8		6		8		10		12
Adjustment Spanner (for Upper Roller Set)	250-017-168 FD30-FSP		1		1		1		1		1		1

*1 When using a panel with a width of 580-700, to shorten the length from the hanging bracket to the end of the panel, use the part set in *2 instead of the one in *1. See *3 on P.593 for details.
*3 White is also available. *See the pages for each product for details on the quantities of optional parts.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

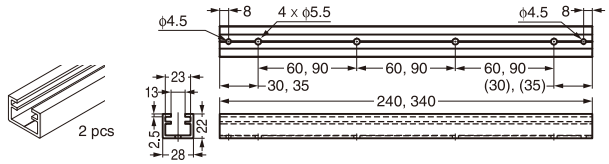
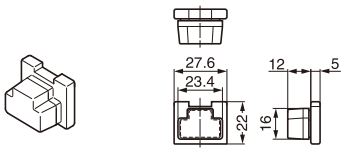
PARTS TABLE

Compatible Products	Name	Dimensions	Specifications	Item Code Item Name
FDPN 40P · FDPN 40V	**Upper Roller Set for Corner** **(For 2 Parallel Stacking/Perpendicular Stacking Partition)**		**Upper rollers for the FDPN40 double partition type.** • Material Steel/polyacetal (POM) • Finish Gloss chromate finish/ natural (rollers with cap), black (rollers without cap)	**250-037-223** FDPN40-QRC
	Upper Roller Set for Parallel Stacking Door (For Parallel Stacking Single Partition)		**Upper rollers for the FDPN40P parallel stacking type. Use this for parallel stacking doors. Comes with a stopper to use with the doors.** • Material Steel/polyacetal (POM) • Finish Gloss chromate finish/ black (rollers with cap), natural (rollers without cap)	**250-037-219** FDPN40P-QRF-ST
	Upper Roller Set for Parallel Stacking Panels **(For Parallel Stacking Single/Double Partition)**		**Upper rollers for the FDPN40P parallel stacking type. Use this for parallel stacking doors and panels.** • Material Steel/polyacetal (POM) • Finish Gloss chromate finish/ natural (rollers)	**250-037-220** FDPN40P-QRF
	Upper Roller Set for Parallel Sliding Panels **(For Parallel Stacking Single Partition)**		**Upper rollers for the FDPN40P parallel stacking type. The two rollers move straight along the rail, enabling use with sliding non-stacking panels.** • Material Steel/polyacetal (POM) • Finish Gloss chromate finish/ grey (rollers)	**250-037-221** FDPN40P-QRL
	Upper Roller Set for Perpendicular Stacking Panels **(for Perpendicular Stacking Single Partition)**		**Upper rollers for the FDPN40V perpendicular stacking type. The set contains leading edge rollers with 4 wheels to turn the corner of the stacking rail and trailing edge rollers with 2 wheels to run straight along the rail.** • Material Steel/polyacetal (POM) • Finish Gloss chromate finish/ natural (rollers for turning), black (rollers for linear motion)	**250-037-222** FDPN40V-QR

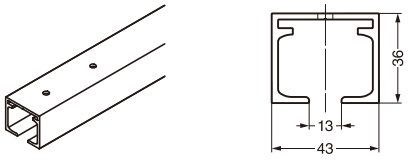
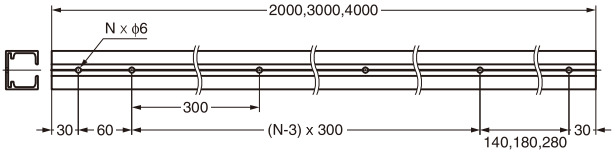
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

PARTS TABLE

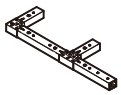
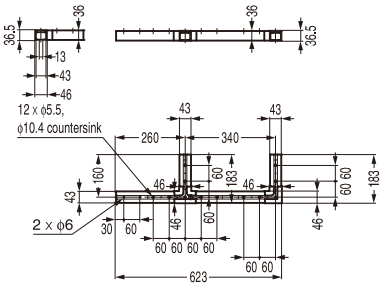
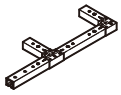
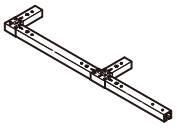
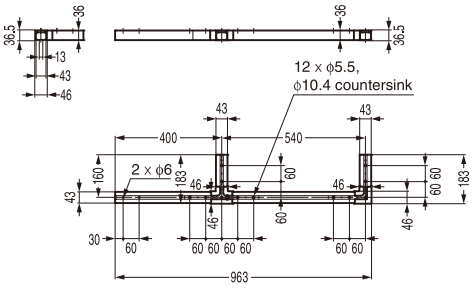
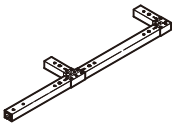
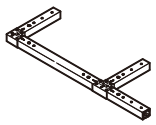
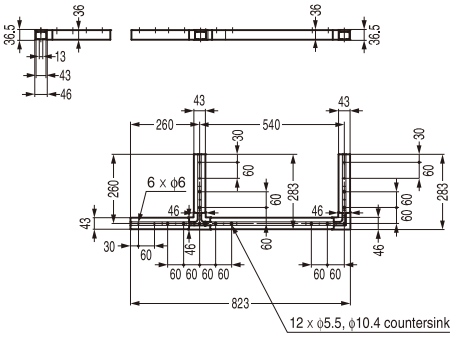
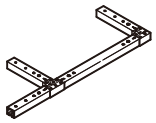
Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FDPN 40P · FDPN 40V	**Hanging Bracket**		**A recessed mounting bracket for assembling the FDP and FDPN upper rollers into doors.** • Material: Aluminium alloy • Finish: Silver anodized Accessories · Size 5 x 40 cross-recessed pan head tapping screws	Length 240 mm	**250-037-224** **FDP40-DTR240**
				Length 340 mm	**250-024-505** **FDP40-DTR340**
	End Caps For Hanging Bracket		**End caps to conceal the ends of the hanging bracket.** • Material: Elastomer (TPE) • Colour: Black, white	Black	**250-121-142** **FD70B-EC-BL**
				White	**250-024-897** **FD70B-EC-WT**
	Adjustment Spanner (For Upper Roller Set)		**Attach this tool to the hanging bracket of the FDPN upper rollers to adjust the bracket vertically.** • Material: Steel • Finish: Coloured chromate finish (trivalent)		**250-017-168** **FD30-FSP**

UPPER TRACK

Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FDPN 40P · FDPN 40V	**Upper Track**	  	**An upper track for the FDPN and FDP. Holes are drilled in the side that joins with the stacking rail.** • Material Aluminium alloy • Finish Silver: Silver anodized + electrodeposition coating/clear Amber: Amber anodized + electrodeposition coating/clear White: Anodized + electrodeposition coating/white Accessories · Size 4 x 40 cross-recessed binding head tapping screws	Silver	Length 2000 mm	**250-037-213** **FDP40-TRM2000SL**
					Length 3000 mm	**250-024-507** **FDP40-TRM3000SL**
					Length 4000 mm	**250-024-508** **FDP40-TRM4000SL**
				Amber	Length 2000 mm	**250-037-214** **FDP40-TRM2000UM**
					Length 3000 mm	**250-024-509** **FDP40-TRM3000UM**
					Length 4000 mm	**250-024-510** **FDP40-TRM4000UM**
				White	Length 2000 mm	**250-037-215** **FDP40-TRM2000WT**
					Length 3000 mm	**250-024-511** **FDP40-TRM3000WT**
					Length 4000 mm	**250-024-512** **FDP40-TRM4000WT**

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

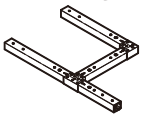
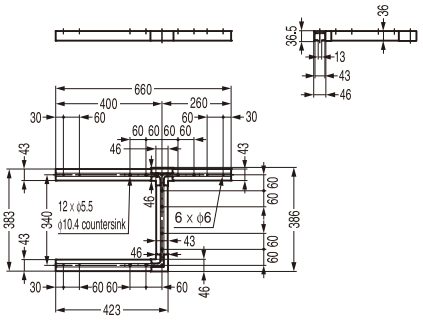
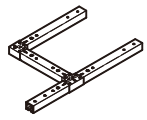
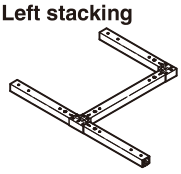
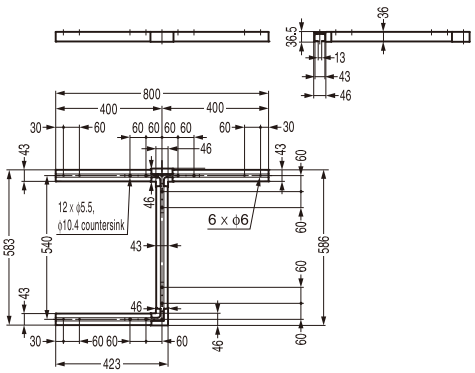
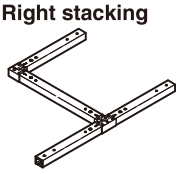
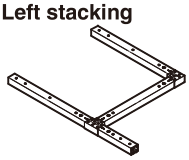
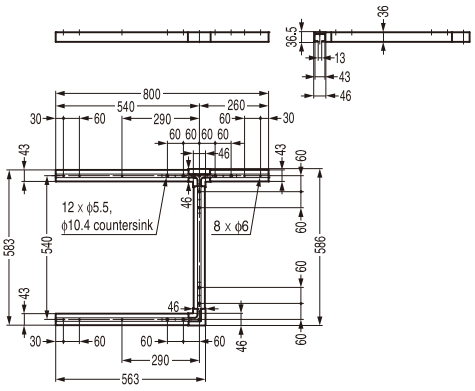
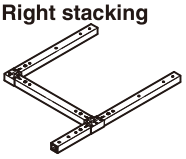
PARALLEL STACKING RAIL

Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FDPN 40P	**Parallel Stacking Rail For narrow panels Left stacking** 	 *The figure shows the left stacking type.	**A parallel stacking rail for the FDPN40P. Use this with 3-4 panels with a width of 500-700. Each rail part comes assembled. The set includes a connecting plate, which acts as an installation guide when attaching the panels to the straight rail.** • Main material: Aluminium alloy • Finish Silver: Silver anodized + electrodeposition coating/clear Amber: Amber anodized + electrodeposition coating/clear White: Anodized + electrodeposition coating/white Accessories · Rail Connecting Plate 1 pc · Size 4 x 40 cross-recessed flat head tapping screws	Panel width: 500 - 700 No. of Panels: 3 - 4	Silver	**250-037-189** FDPN40P-TRMSL-P34D16-SL
					Amber	**250-037-190** FDPN40P-TRMSL-P34D16-UM
					White	**250-037-191** FDPN40P-TRMSL-P34D16-WT
	Parallel Stacking Rail For narrow panels Right stacking 				Silver	**250-037-192** FDPN40P-TRMSR-P34D16-SL
					Amber	**250-037-193** FDPN40P-TRMSR-P34D16-UM
					White	**250-037-194** FDPN40P-TRMSR-P34D16-WT
	Parallel Stacking Rail Left stacking 	 *The figure shows the left stacking type.	**A parallel stacking rail for the FDPN40P. Use this with 3-4 panels with a width of 700-1000. Each rail part comes assembled. The set includes a connecting plate, which acts as an installation guide when attaching the panels to the straight rail.** • Main material: Aluminium alloy • Finish Silver: Silver anodized + electrodeposition coating/clear Amber: Amber anodized + electrodeposition coating/clear White: Anodized + electrodeposition coating/white Accessories · Rail Connecting Plate 1 pc · Size 4 x 40 cross-recessed flat head tapping screws	Panel width: 700 - 1000 No. of Panels: 3 - 4	Silver	**250-037-183** FDPN40P-TRMSL-P54D16-SL
					Amber	**250-037-184** FDPN40P-TRMSL-P54D16-UM
					White	**250-037-185** FDPN40P-TRMSL-P54D16-WT
	Parallel Stacking Rail Right stacking 				Silver	**250-037-186** FDPN40P-TRMSR-P54D16-SL
					Amber	**250-037-187** FDPN40P-TRMSR-P54D16-UM
					White	**250-037-188** FDPN40P-TRMSR-P54D16-WT
	Parallel Stacking Rail For 5-6 panels Left stacking 	 *The figure shows the left stacking type.	**A parallel stacking rail for the FDPN40P. Use this with 5-6 panels with a width of 700-1000. Each rail part comes assembled. The set includes a connecting plate, which acts as an installation guide when attaching the panels to the straight rail.** • Main material: Aluminium alloy • Finish Silver: Silver anodized + electrodeposition coating/clear Amber: Amber anodized + electrodeposition coating/clear White: Anodized + electrodeposition coating/white Accessories · Rail Connecting Plate 1 pc · Size 4 x 40 cross-recessed flat head tapping screws · Size 4 x 40 cross-recessed binding head tapping screws	Panel width: 700 - 1000 No. of Panels: 5 - 6	Silver	**250-037-177** FDPN40P-TRMSL-P54D26-SL
					Amber	**250-037-178** FDPN40P-TRMSL-P54D26-UM
					White	**250-037-179** FDPN40P-TRMSL-P54D26-WT
	Parallel Stacking Rail For 5-6 panels Right stacking 				Silver	**250-037-180** FDPN40P-TRMSR-P54D26-SL
					Amber	**250-037-181** FDPN40P-TRMSR-P54D26-UM
					White	**250-037-182** FDPN40P-TRMSR-P54D26-WT

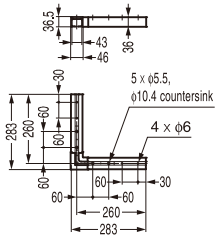
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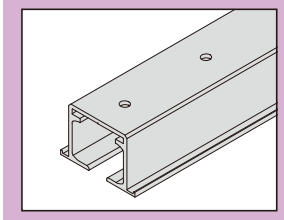
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DOOR DAMPERS
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STACKABLE PARTITION DOOR
SLIDING DOOR

PERPENDICULAR STACKING RAIL

Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FDPN 40V	Perpendicular Stacking Rail For narrow panels Left stacking 	 *The figure shows the left stacking type.	**A perpendicular stacking rail for the FDPN40V. Use this with 3-4 panels with a width of 500-700. Each rail part comes assembled. The set includes a connecting plate, which acts as an installation guide when attaching the panels to the straight rail.** • Main material: Aluminium alloy • Finish Silver: Silver anodized + electrodeposition coating/clear Amber: Amber anodized + electrodeposition coating/clear White: Anodized + electrodeposition coating/white Accessories · Rail Connecting Plate 1 pc · Size 4 x 40 cross-recessed flat head tapping screws · Size 4 x 40 cross-recessed binding head tapping screws	Panel width: 500 - 700 No. of Panels: 3 - 4	Silver	250-037-207 FDPN40V-TRMSL-P34D40-SL
					Amber	250-037-208 FDPN40V-TRMSL-P34D40-UM
					White	250-037-209 FDPN40V-TRMSL-P34D40-WT
	Perpendicular Stacking Rail For narrow panels Right stacking 				Silver	250-037-210 FDPN40V-TRMSR-P34D40-SL
					Amber	250-037-211 FDPN40V-TRMSR-P34D40-UM
					White	250-037-212 FDPN40V-TRMSR-P34D40-WT
	Perpendicular Stacking Rail Left stacking 	 *The figure shows the left stacking type.	**A perpendicular stacking rail for the FDPN40V. Use this with 3-4 panels with a width of 700-900. Each rail part comes assembled. The set includes a connecting plate, which acts as an installation guide when attaching the panels to the straight rail.** • Main material: Aluminium alloy • Finish Silver: Silver anodized + electrodeposition coating/clear Amber: Amber anodized + electrodeposition coating/clear White: Anodized + electrodeposition coating/white Accessories · Rail Connecting Plate 1 pc · Size 4 x 40 cross-recessed flat head tapping screws · Size 4 x 40 cross-recessed binding head tapping screws	Panel width: 700 - 900 No. of Panels: 3 - 4	Silver	250-037-201 FDPN40V-TRMSL-P54D40-SL
					Amber	250-037-202 FDPN40V-TRMSL-P54D40-UM
					White	250-037-203 FDPN40V-TRMSL-P54D40-WT
	Perpendicular Stacking Rail Right stacking 				Silver	250-037-204 FDPN40V-TRMSR-P54D40-SL
					Amber	250-037-205 FDPN40V-TRMSR-P54D40-UM
					White	250-037-206 FDPN40V-TRMSR-P54D40-WT
	Perpendicular Stacking Rail For 5-6 panels Left stacking 	 *The figure shows the left stacking type.	**A perpendicular stacking rail for the FDPN40V. Use this with 5-6 panels with a width of 700-900. Each rail part comes assembled. The set includes a connecting plate, which acts as an installation guide when attaching the panels to the straight rail.** • Main material: Aluminium alloy • Finish Silver: Silver anodized + electrodeposition coating/clear Amber: Amber anodized + electrodeposition coating/clear White: Anodized + electrodeposition coating/white Accessories · Rail Connecting Plate 1 pc · Size 4 x 40 cross-recessed flat head tapping screws · Size 4 x 40 cross-recessed binding head tapping screws	Panel width: 700 - 1000 No. of Panels: 5 - 6	Silver	250-037-195 FDPN40V-TRMSL-P54D54-SL
					Amber	250-037-196 FDPN40V-TRMSL-P54D54-UM
					White	250-037-197 FDPN40V-TRMSL-P54D54-WT
	Perpendicular Stacking Rail For 5-6 panels Right stacking 				Silver	250-037-198 FDPN40V-TRMSR-P54D54-SL
					Amber	250-037-199 FDPN40V-TRMSR-P54D54-UM
					White	250-037-200 FDPN40V-TRMSR-P54D54-WT

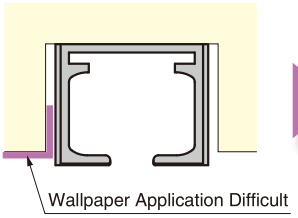
CORNER RAIL

Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FDPN 40P2D · FDPN 40V2D	Corner Rail 		**A corner rail for the FDPN. Use this with the two-panel type. The set includes two connecting plates, which act as an installation guide when attaching the panels to the straight rail.** • Main material: Aluminium alloy • Finish Silver: Silver anodized + electrodeposition coating/clear Amber: Amber anodized + electrodeposition coating/clear White: Anodized + electrodeposition coating/white Accessories · Rail Connecting Plate 2 pcs · Size 4 x 40 cross-recessed flat head tapping screws	Silver	250-037-216 FDPN40-TRMC260-SL
				Amber	250-037-217 FDPN40-TRMC260-UM
				White	250-037-218 FDPN40-TRMC260-WT

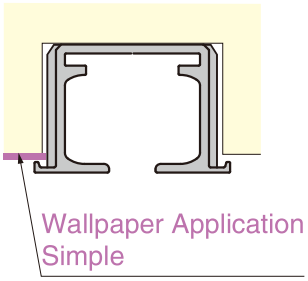


NEW
A flange type upper track is now available for the FDPN40 (recessed mount).

Conventional Upper Track



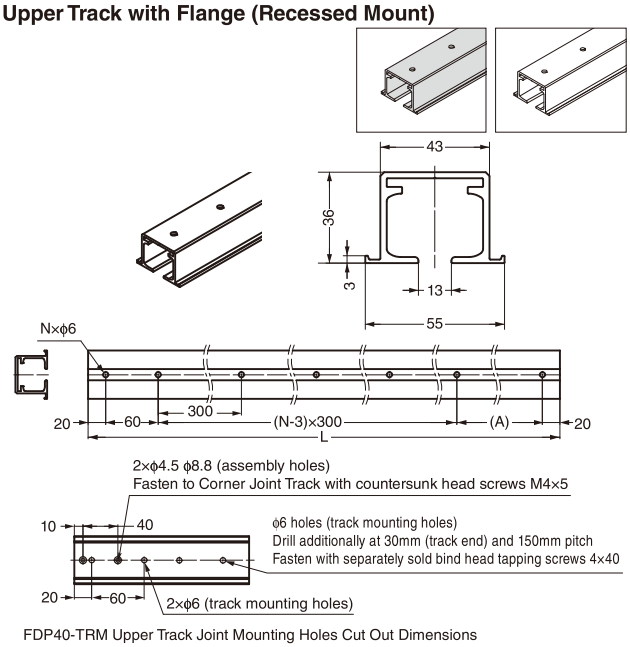
NEW Flange type



The new flange type eliminates the need for processing the ceiling wallpaper. This results in a reduction of both time and effort required for installation.

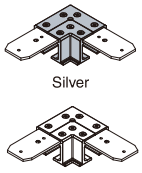
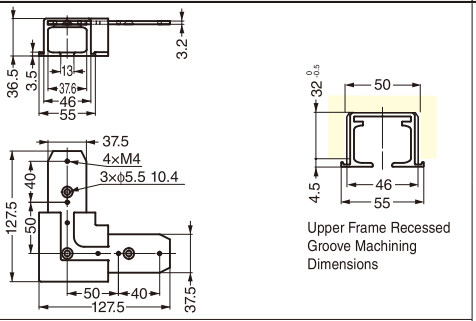
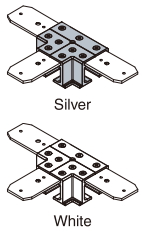
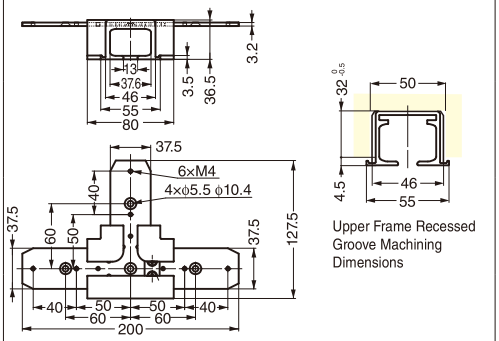
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DOOR STOPPERS
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UPPER TRACK WITH FLANGE (RECESSED MOUNT)

	Name / Dimensions	Specifications			Item Code / Item Name
FDPN 40P (P.586) · FDPN 40V (P.590)	**Upper Track with Flange (Recessed Mount)**  FDP40-TRM Upper Track Joint Mounting Holes Cut Out Dimensions	**Upper track which can be mounted recessed into the ceiling for FDPN/FDP. The flange design simplifies wallpaper application, reducing the time and effort required for installation.** • Material Aluminium Alloy • Finish Silver: Silver Anodized+ Electroplating/clear White: Anodized+ Electroplating/white Accessory: Bind head tapping screw 4×40 **[Precautions for Installation]** • Panel direction changes depending on whether there is a roller cap. • Depending on the storage track dimensions, the panels may not be properly storable. Check the panel storage trajectory when designing the housing, and confirm before use. • When using the Corner Joint Part to change the storage part track pitch, match the roller mounting pitch in the FDP40-TRM Upper Track Joint Mounting Holes Cut Out Dimensions to the track as well.	Silver	Length 2000mm	250-053-824 FDP40-TRH2000SL
				Length 3000mm	250-053-826 FDP40-TRH3000SL
				Length 4000mm	250-053-828 FDP40-TRH4000SL
			White	Length 2000mm	250-053-825 FDP40-TRH2000WT
				Length 3000mm	250-053-827 FDP40-TRH3000WT
				Length 4000mm	250-053-829 FDP40-TRH4000WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

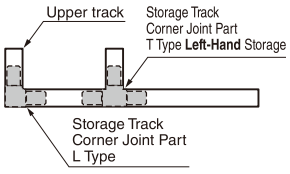
CORNER JOINT FOR UPPER TRACK (FLANGE TYPE)

	Name	Dimensions	Specifications			Item Code / Item Name
FDP 40-TRH	Corner Joint L Type (Recessed Mount)  Silver White	 Upper Frame Recessed Groove Machining Dimensions	**Corner joint part for storage track. In combination with the Upper Track for Recessed Mount, customers can use this to set the housing of partition storage sections.** • Main materials: Steel (SPCC)/Zinc alloy (ZDC) • Finish Silver: Baked acrylic coating White: Baked acrylic coating Accessory Countersunk head screws M4×5	L	Silver	**250-053-822** **FDPN40-TRHS-L-SL**
					White	**250-053-823** **FDPN40-TRHS-L-WT**
	Corner Joint T Type (Recessed Mount)  Silver White	 Upper Frame Recessed Groove Machining Dimensions Figure shows left-hand storage. Right-hand storage is symmetrically opposite.		Left-Hand	Silver	**250-053-818** **FDPN40-TRHSL-T-SL**
					White	**250-053-819** **FDPN40-TRHSL-T-WT**
				Right-Hand	Silver	**250-053-820** **FDPN40-TRHSR-T-SL**
					White	**250-053-821** **FDPN40-TRHSR-T-WT**

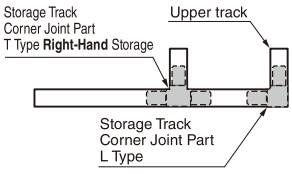
How to Choose Left-Hand and Right-Hand Type (Corner Joint T Type)

• For both parallel and vertical storage, use T Type Left-Hand Storage for left-hand storage and T Type Right-Hand Storage for right-hand storage.

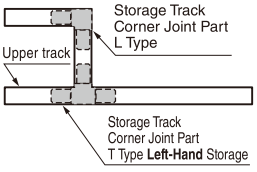
Parallel Storage Left-Hand



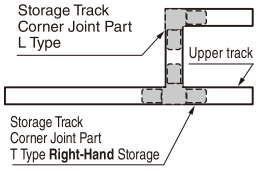
Parallel Storage Right-Hand



Vertical Storage Left-Hand



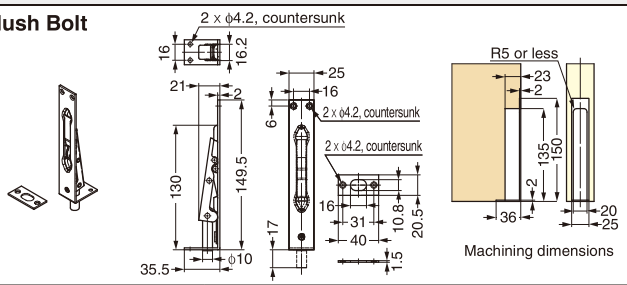
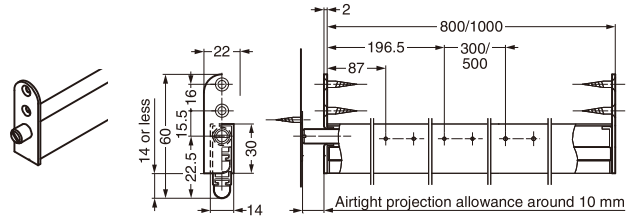
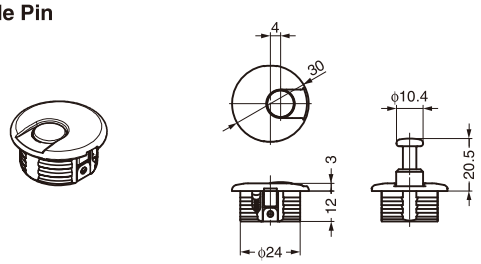
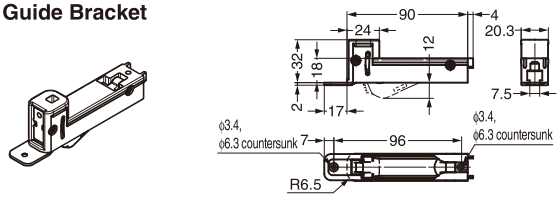
Vertical Storage Right-Hand



SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

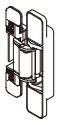
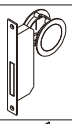
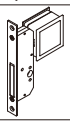
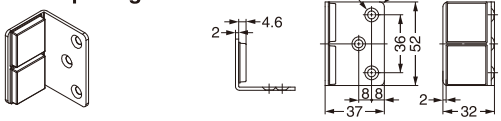
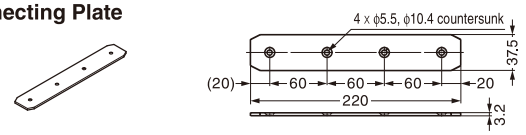
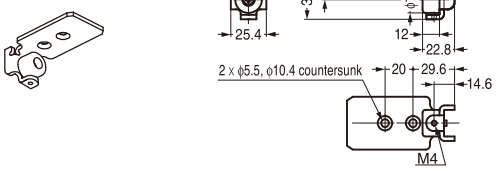
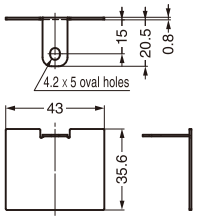
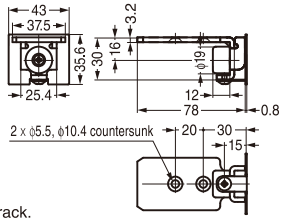
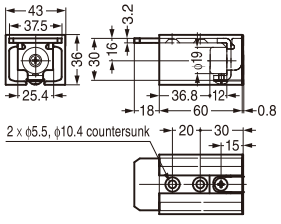
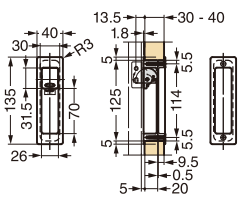
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OPTIONAL PARTS TABLE

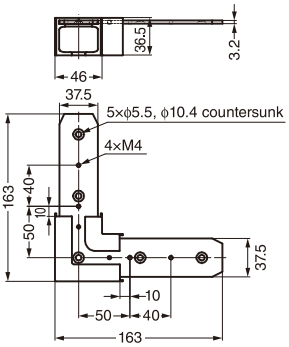
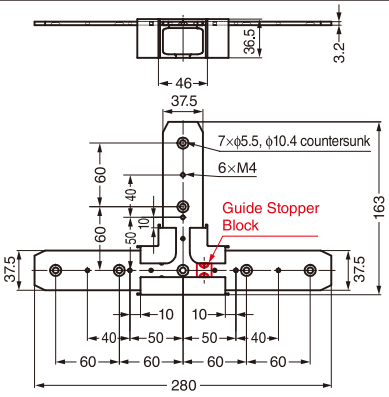
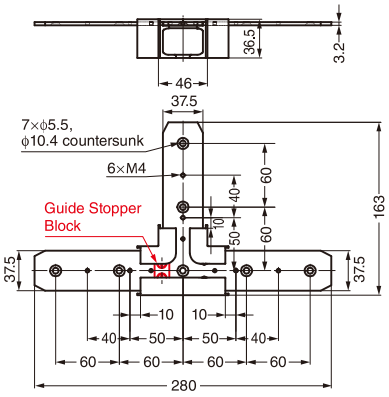
Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FDPN 40P · FDPN 40V · FDP 40P · FDP 40V	**Flush Bolt**		**Use this to secure flat partition panels when using them as partitions.** • Material: Stainless steel (SUS304) • Finish: Hairline finish Accessories · Strike · Size 3.1 x 20 cross-recessed flat head wood screws (4 pcs) · Size 2.7 x 20 cross-recessed flat head wood screws (2 pcs)		250-024-525 FDP40-DBL150HL
	Seal Length: 2500 mm		**A seal to cover the area between the panels of a flat partition.** • Material: Black: Chloroprene rubber (CR) White: Ethylene propylene rubber (EPDM) • Colour: Black, white Caution: Use double-sided tape or adhesive when mounting this product to doors.	Black	250-024-526 FDP40-DSP2500BL
				White	250-025-596 FDP40-DSP2500WT
	Seal Guide Rail Length: 2500 mm		**A guide rail for the seal covering the area between the panels of a flat partition.** • Material: ABS resin • Colour: Black, white	Black	250-024-527 FDP40-DSPU2500BL
				White	250-025-593 FDP40-DSPU2500WT
	Bottom Tightener		**Use this to block the gap between flat partition panels and the floor when using them as partitions. The protruding area of the seal can be adjusted according to the dimensions of the gap. Sizes other than those indicated on the right can be made to order (please request a quote).** • Material: Aluminium alloy/elastomer • Finish: Silver anodized/black Included screws: Size 3.5 x 20 (4 pcs) and size 3.1 x 16 (2 pcs) cross-recessed flat head tapping screws Caution: When installing this product on the FDPN40 or FDP40 flat partition, the ends require notches being cut, holes drilled, and flush bolts attached in addition to cutting. This product cannot be used with doors.	Width: 600 - 800 mm	250-024-528 FDP40-DBT800
				Width: 800 - 1000 mm	250-024-529 FDP40-DBT1000
	Lower Guide Pin See the pages for each product for details.		A lower guide to prevent oscillation in top-hanging sliding doors. Use this for the FDPN40P and FDP40P stackable doors. The motion of the door is guided magnetically. This product is recessed in the floor. Distance between floor and door: 10 ±4 mm • Material: Polyacetal (POM)/steel/zinc alloy (ZDC) • Finish: Colours indicated on the right/Chrome plating/Nickel plating Included screws: Size 3 x 14 cross-recessed pan head tapping screws (2 pcs) **Caution: Do not allow wax or other foreign matter to enter the guide pin, as this may cause malfunctions.**	Light grey	250-029-828 FD30-MGFP-LGR
				Light brown	250-029-829 FD30-MGFP-LBR
				Dark brown	250-029-830 FD30-MGFP-DBR
	Magnetic Guide Bracket See the pages for each product for details.		**A bracket for the lower guide. The magnet attracts the guide pin. This product is recessed into the bottom of the door. Comes with an automatic magnet height setting function. 2 pcs.** • Material: Polyacetal (POM)/neodymium • Finish: Grey/nickel plating Included screws: Size 3 x 12 cross-recessed flat head tapping screws (2 pcs) Caution: 2 pieces (1 set) required for each door.		250-026-500 FD30-MGDB
	Lower Guide Rail See the pages for each product for details.		A rail for the lower guide. This product is recessed into the bottom surface of the door. • Material: ABS resin • Colour: Grey Included screws: Size 3 x 16 cross-recessed pan head tapping screws (4 pcs)	Length 1000 mm	250-026-501 FD30-MGDR1000
	Adjustment Spanner (for Lower Guide Pin)		**A tool to adjust the direction of the lower guide pin. Also compatible with the Z059 dedicated tool.** • Material: Steel • Finish: Chromate finish	–	250-022-252 FD80-HHSP

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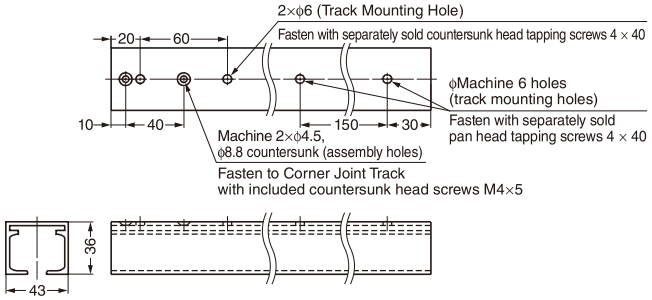
OPTIONAL PARTS TABLE

Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FDPN 40P · FDPN 40V · FDP 40P · FDP 40V	**3-Way Adjustable Concealed Hinge** See the pages for each product for details.		**A three-way adjustable concealed hinge. Enables easy alignment of the joint. The unique linking structure reduces dead space when doors or panels are stacked.** • Material: Steel/polyacetal (POM)/aluminium alloy • Finish: Nickel plating/grey/silver - anodized Installation screws included		170-020-804 HES3D-V135LGR
	Magnetic Latch Handle (Flat Round Type) See the pages for each product for details.		• Material: Zinc alloy/stainless steel • Finish: Satin nickel plating/satin finish Installation screws included		260-024-534 MLH-SN
	Magnetic Latch Handle (Flat Square Type) See the pages for each product for details.		• Material: Zinc alloy/stainless steel • Finish: Satin nickel plating/satin finish Installation screws included		260-028-998 MLHS-SN
	Door Stopper for Opening Door		**A door stopper for the opening door of a flat partition. Attaches to the top of the leading edge of the opening door. This product absorbs impact when the door is opened and closed, keeping it aligned with the panels.** • Material: Stainless steel/polyurethane (PUR) • Finish: Gloss barrel polished/clear Included screws: Size 4 x 25 cross-recessed flat head tapping screws (3 pcs)		250-024-535 FDP40V-DTST
	Rail Connecting Plate		**Use this to connect the upper track to the stacking rail or corner rail, or to connect multiple upper tracks. Insert this product into the upper groove of the rail, align the holes with those of the rail and secure with the included screws. One piece is included with stacking rails and corner rails.** • Material: Steel (SPCC) • Finish: Gloss chromate finish Included screws: Size 4 x 40 cross-recessed flat head tapping screws (4 pcs)		250-025-761 FDP40-TRMS-CP
	Stopper		• Material: Steel (SPCC)/styrene butadiene rubber (SBR) • Finish: Gloss chromate finish/black Purpose: Use as a stopper at the rail centre. Included screws · Size 4 x 40 cross-recessed flat head tapping screws (2 pcs) · Size M4 x 5 cross-recessed flat head tapping screw (1 pc) *Use when using with the end plate		250-029-719 FDP40-STP
	End Plate Installation holes must be drilled in the upper track.		• Material: Steel (SECC) • Finish: Baked enamel finish Purpose: To cover the rail when recessed. Caution: This product cannot be used as a stopper at the rail end. Included screws · Size 4 x 30 cross-recessed binding head tapping screw (1 pc)	Silver Amber White	250-029-723 FDP40-TREP-SL 250-029-724 FDP40-TREP-UM 250-029-725 FDP40-TREP-WT
	End Stopper for Upper Track Installation holes must be drilled in the upper track.		• Parts Stopper + End Plate Included screws · Size 4 x 40 cross-recessed flat head tapping screws (2 pcs) · Size M4 x 5 cross-recessed binding screws Use: For use at the end of rails and perpendicular stacking rails.	Silver Amber White	250-029-776 FDP40-ESTP-SL 250-029-777 FDP40-ESTP-UM 250-029-778 FDP40-ESTP-WT
	End Stopper for Parallel Stacking Panels		• Parts Stopper + End Plate + Upper Track (60 mm) Included screws · Size 4 x 40 cross-recessed flat head tapping screws (2 pcs) · Size M4 x 5 cross-recessed binding screws Use: For connection to the stacking end of parallel stacking rails.	Silver Amber White	250-029-773 FDP40P-ESTP-SL 250-029-774 FDP40P-ESTP-UM 250-029-775 FDP40P-ESTP-WT
	Recessed Pull		• Main material: Zinc alloy (ZDC) Included screws · Size M4 x 25 cross-recessed round flat head screws	Satin nickel plating Chrome plating Dull chrome plating	100-010-096 HH-P135SN 100-010-097 HH-P135CR 100-010-098 HH-P135DC

OPTIONAL PARTS TABLE

Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FDP 40-TRM (P.603)	Corner Connecting Part L		**Retraction Track Corner Connecting Part. Use in combination with the Upper Track to create the panel storage space. Please use with specifications similar to the existing Retraction track.** • Main material Steel (SPCC)/Zinc Alloy (ZDC) • Finish Silver: Bright Chromate (Trivalent) Baked Coating/Silver Amber: Bright Chromate (Trivalent) Baked Coating/Amber White: Bright Chromate (Trivalent) Baked Coating/White Included • Countersunk head screw M4×5	L Type	Silver	250-037-601 FDPN40-TRMS-L-SL
					Amber	250-037-602 FDPN40-TRMS-L-UM
					White	250-037-603 FDPN40-TRMS-L-WT
	Corner Connecting Part T Left Retraction	 *The guide stopper block position is different from T Type Right-Hand Storage.		T Type Left Retraction	Silver	250-037-598 FDPN40-TRMSL-T-SL
					Amber	250-037-599 FDPN40-TRMSL-T-UM
					White	250-037-600 FDPN40-TRMSL-T-WT
	Corner Connecting Part T Right Retraction	 *The guide stopper block position is different from T Type Left-Hand Storage.		T Type Right Retraction	Silver	250-037-735 FDPN40-TRMSR-T-SL
					Amber	250-037-736 FDPN40-TRMSR-T-UM
					White	250-037-737 FDPN40-TRMSR-T-WT

FDP40-TRM Upper Track Connecting Mounting Holes Cut Out Dimensions



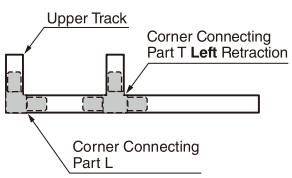
Installation Precautions

- Panel direction changes depending on whether a roller cap is present. For details, check the difference (P.603) between the capped and uncapped versions.
- Depending on the dimensions of the Retraction Track, the panel may not fit properly. Please carefully check the panel's trajectory during storage at the design stage before use.
- When using the Corner Joint Part to change the storage part track pitch, match the roller mounting pitch to the track as well.

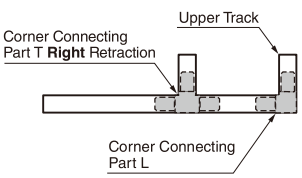
How to Choose Between T Type Left-Hand and Right-Hand Storage

- For both parallel and Perpendicular Stacking, use T Type Left-Hand Stacking for left-hand storage and T Type Right-Hand Stacking for right-hand storage.

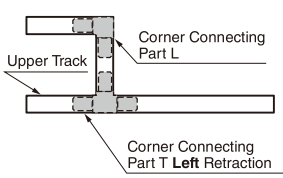
Parallel Stacking Left-Hand



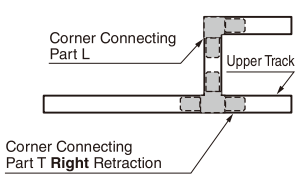
Parallel Stacking Right-Hand



Perpendicular Stacking Left-Hand



Perpendicular Stacking Right-Hand



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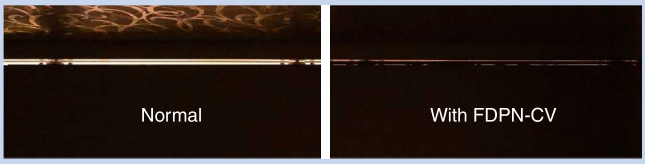
LAMP GAP COVER FDPN-CV NEW

Latest Info

- A shading cover designed for the FDPN40.
- Mounted on the upper part of doors/panels.
- Available in both sliding and swing doors.
- Fix the cover in place using the catches A/B.

Example Image of Light Blocking As shown in the Sugatsune showroom

Image of the upper part of the door when viewed from eye level (approx. 1,600mm)

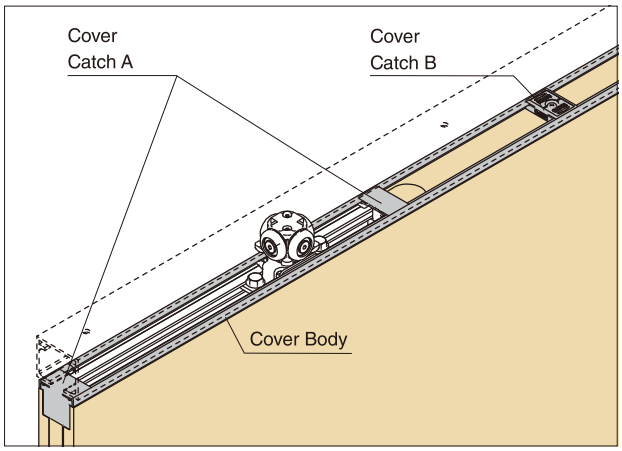


• Optional part for FDPN40P (P.586)

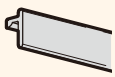
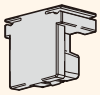
INSTRUCTION | SCREW

Remarks

- When this product is used, the end cap in the FDPN parts set is no longer required.

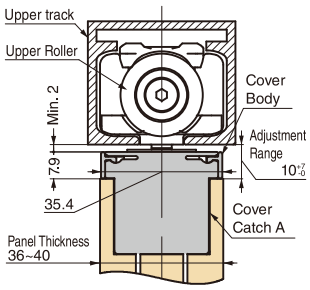


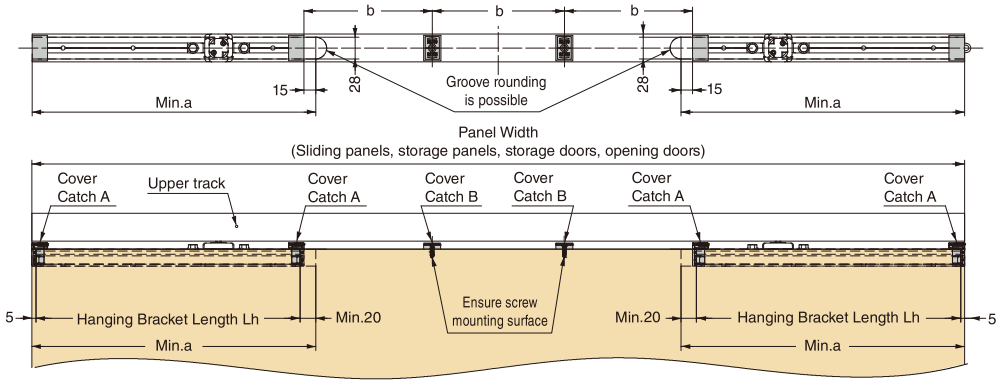
Purchase the required parts as suited to the size of the panel or opening door.

Panel Thickness mm	Panel Width mm	Required Quantity		
		 Cover	 Catch A	 Catch B
34 ~ 35	—	Cannot be used	Cannot be used	Cannot be used
36 ~ 40	500 ~ 700	1~2* Cut for use.	1 set*1 (4 pcs)	—
	700 ~ 999			—
	1000 ~ 1199			1 pc*1
	1200 ~ 1300			2 pcs*1

* For installation on a single side of the panel, please purchase 1 pc.

*1 When used with swing doors, catch A is not required. Please purchase 4 pcs of catch B.





Cover catches A/B mounting position
*This figure shows panel width 1200

Panel Thickness mm	Panel Width mm	a	b	Hanging Bracket Length Lh
36 ~ 40	500 ~ 700*2	265	—	240 (FDP40-DTR240)
	700 ~ 999*2	365	Uniform interval	340 (FDP40-DTR340)
	1000 ~ 1199			
	1200 ~ 1300			

*2 When the panel width is in the 500 to 519 or 700 to 719 range, or the hanging bracket interval is 0 to 29, modification of the hanging brackets is required. For details, see the Installation Manual.

Cover Body

Item Code	Item Name	Length	Colour	Material	Weight (g)	Box (pcs)	Carton (pcs)
250-051-114	FDPN-CV1300-WT	1350	White	Polyvinyl Chloride(PVC)	33.0	50	250
250-051-115	FDPN-CV1300-BL		Black		33.0	50	250

Cover Catch A (Sold Separately)

Sold in sets of 4 pcs.

Item Code	Item Name	Colour	Material	Weight (g)	Box (pcs)	Carton (pcs)
250-051-116	FDPN-CVA-WT	White	Polyacetal(POM)	8.0	40	400
250-051-117	FDPN-CVA-BL	Black		8.0	40	400

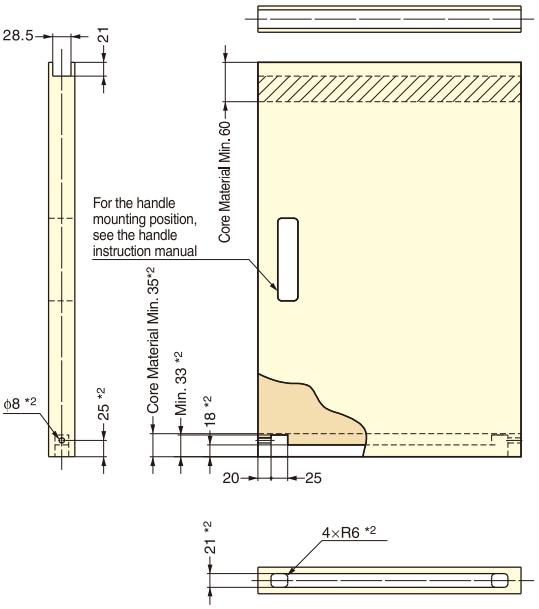
Cover Catch B (Sold Separately)

Item Code	Item Name	Colour	Material	Weight (g)	Box (pcs)	Carton (pcs)
250-051-118	FDPN-CVB-WT	White	Polyacetal(POM)	4.3	100	1000

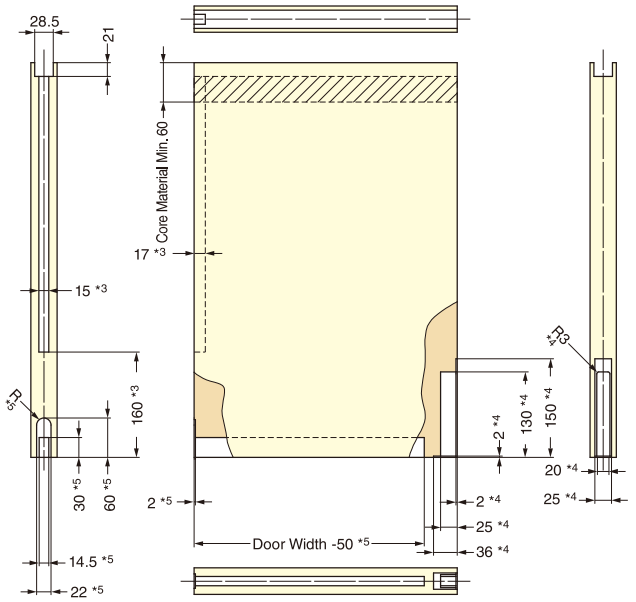
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

STACKABLE PARTITION DOOR SYSTEM FDPN40P (Parallel Stacking specifications) Panel Notch Cut Out Dimensions

Stackable Door

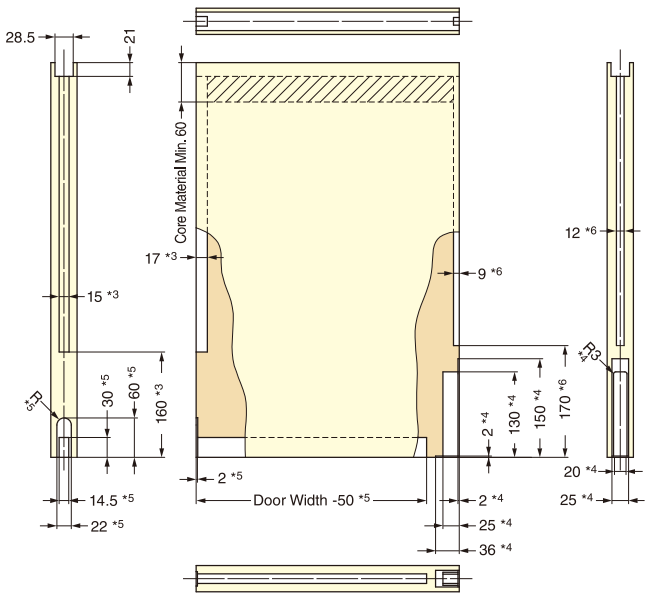


Stackable Panel 1*1

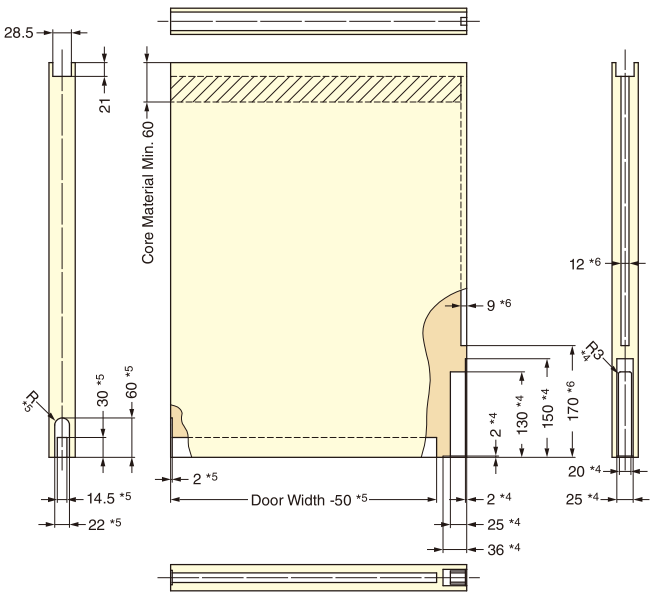


Stackable Panel 2

Not required for FDPN40P1D 3-panel specifications; multiple required for FDPN40P1D 5-panel or more specifications*1



Sliding Panel*1



*2 to *6 are the parts to be machined only when using the optional parts below.

Reference	Part Name
*2	Magnetic Guide Receiver, Lower Guide Track
*3	Gasket Receiving Track
*4	Flush Bolt
*5	Bottom Tightener
*6	Gasket

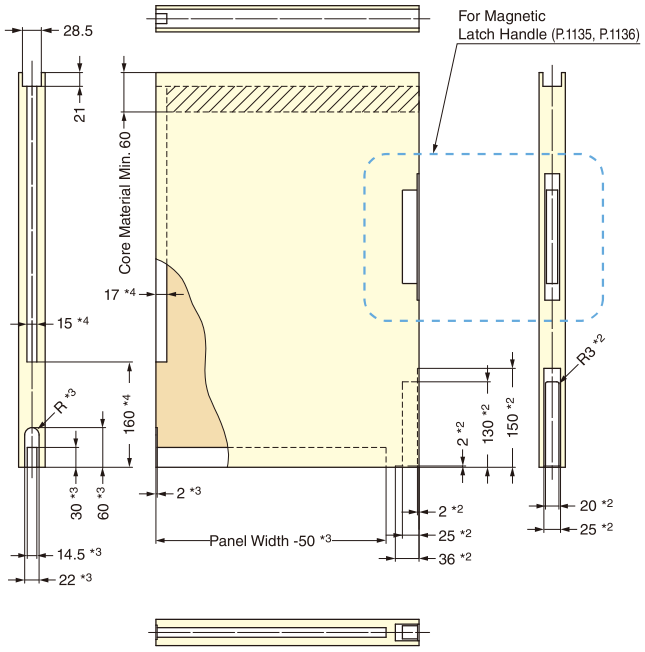
*1 Even with the same number of panels, FDPN40P2D may differ from the assignment of panels above depending on the storage. For details, see the Installation Manual.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

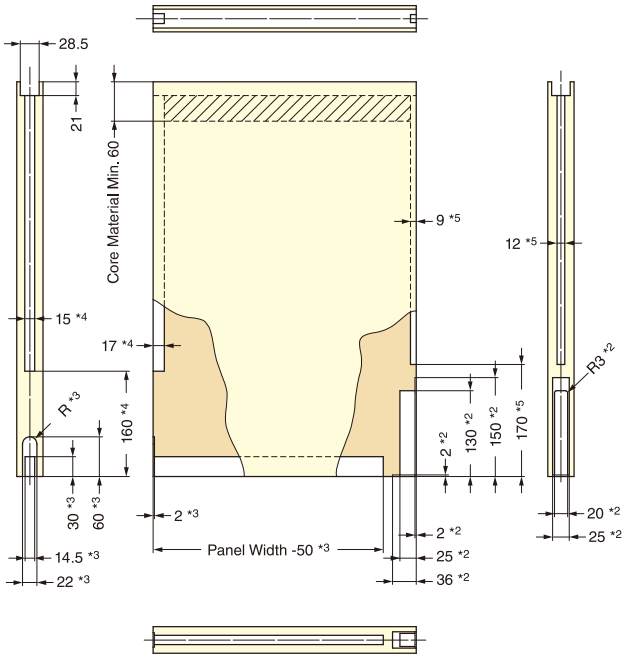
STACKABLE PARTITION DOOR SYSTEM FDPN40V (Perpendicular Stacking specifications) Panel Notch Cut Out Dimensions

For the dimensional details of interior machining (concealed hinges, magnetic latch handle), refer to each product page (concealed hinges (P.551), magnetic latch handle (P.1135, P.1136)) or to the installation manual included with each product.

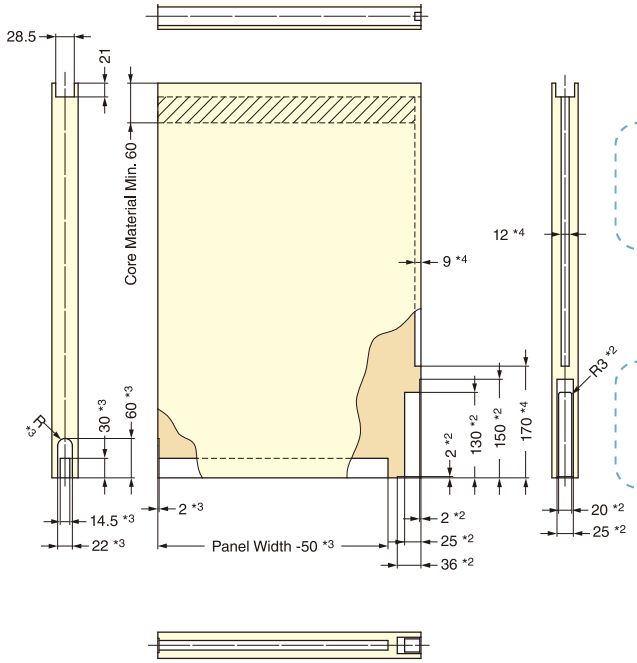
Stackable Panel 1*1



Stackable Panel 2 Multiple required for FDPN40V1D 4-panel or more specifications*1

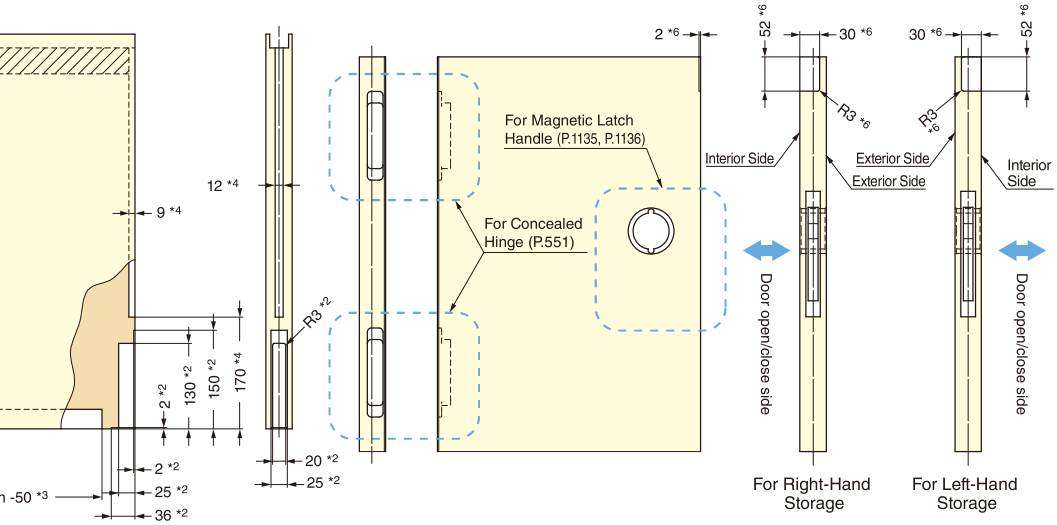


Stackable Panel 3*1



Opening Door

Note that machining for *6 differs for left- and right-hand storage.



*2 to *6 are the parts to be machined only when using the optional parts below.

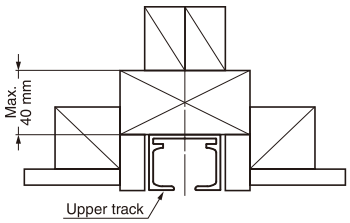
Reference	Part Name
*2	Flush Bolt
*3	Bottom Tightener
*4	Gasket Receiving Track
*5	Gasket
*6	Door Stopper for Opening Doors

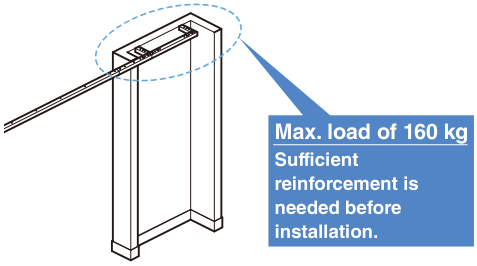
*1 Even with the same number of panels, FDPN40V2D may differ from the assignment of panels above depending on the storage.
For details, see the Installation Manual.

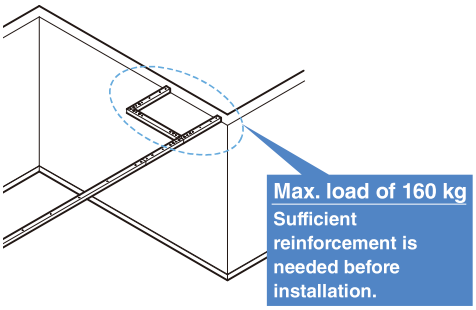
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

STACKABLE PARTITION DOOR SYSTEM FDPN40 Check Points for Installation

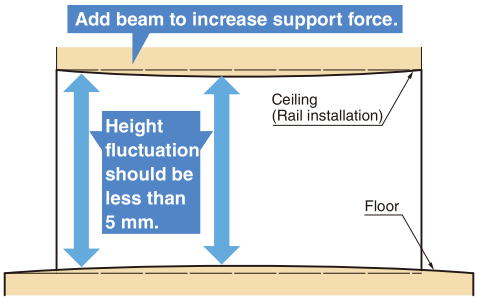
①Make sure that the ceiling is strong enough to support a load of 160 kg (in the stacking part of the rail).



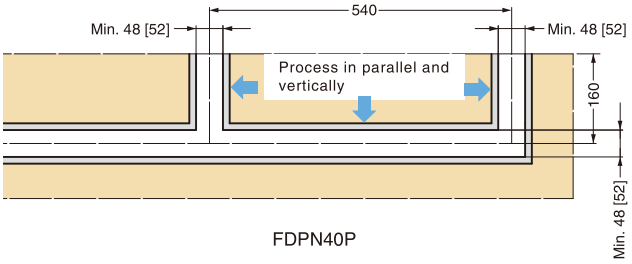




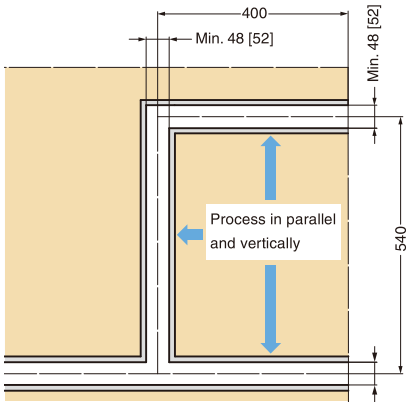
②Check the ceiling for sag and floor for wrap.



③Process when recessing the rail.

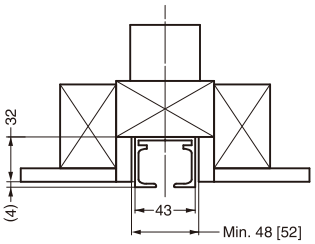


FDPN40P



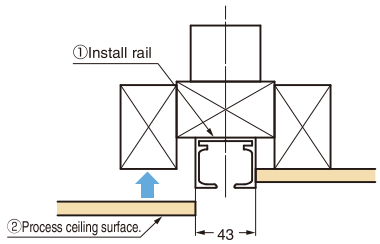
FDPN40V

Dimension in [ ] denoted when cloth is added.



When processing without gap between ceiling face and rail

- At first, install the rail to reinforcement material behind the ceiling.
- Then, fix the ceiling face to meet rail mount dimensions.



STACKABLE PARTITION DOOR SYSTEM FDPN40 Caution

- Particular strength is required for the locations where the panel is stored. Avoid installation in areas where sufficient strength is not ensured. Be especially careful when retrofitting, given that sufficient strength may not be available.
- This product is intended for general residential applications, but can also be used for facilities, etc., when the usage conditions are similar. Do not use in locations such as public facilities where unspecified users at large will be opening and shutting the panel frequently, or outdoors.
- Be sure to use a vibration stopper such as a flush bolt for the panel. In addition, be sure to fix the panel with a vibration stopper after moving the panel. When unfixed it may wobble, which is dangerous.
- Do not apply load to the fixtures by colliding with, leaning on, or hanging from the panel. Also, do not try to move it forcibly or tilt it too far. Otherwise, the fixtures will be damaged, leading to unexpected injury. Mount on a post or ceiling strong enough to withstand the shocks of panel operation and door opening and closing, which will not sag under the panel and door weight.
- Before mounting the fixtures, carefully check the body dimensions and status. Check the horizontal and vertical dimensions and make sure that the opening height dimensions are consistent across the entire opening width, and that the ceiling and floor are smooth.
- Be sure to check the Panel Notch Cut Out Dimensions and go over checks before installation (P.613, P.614).

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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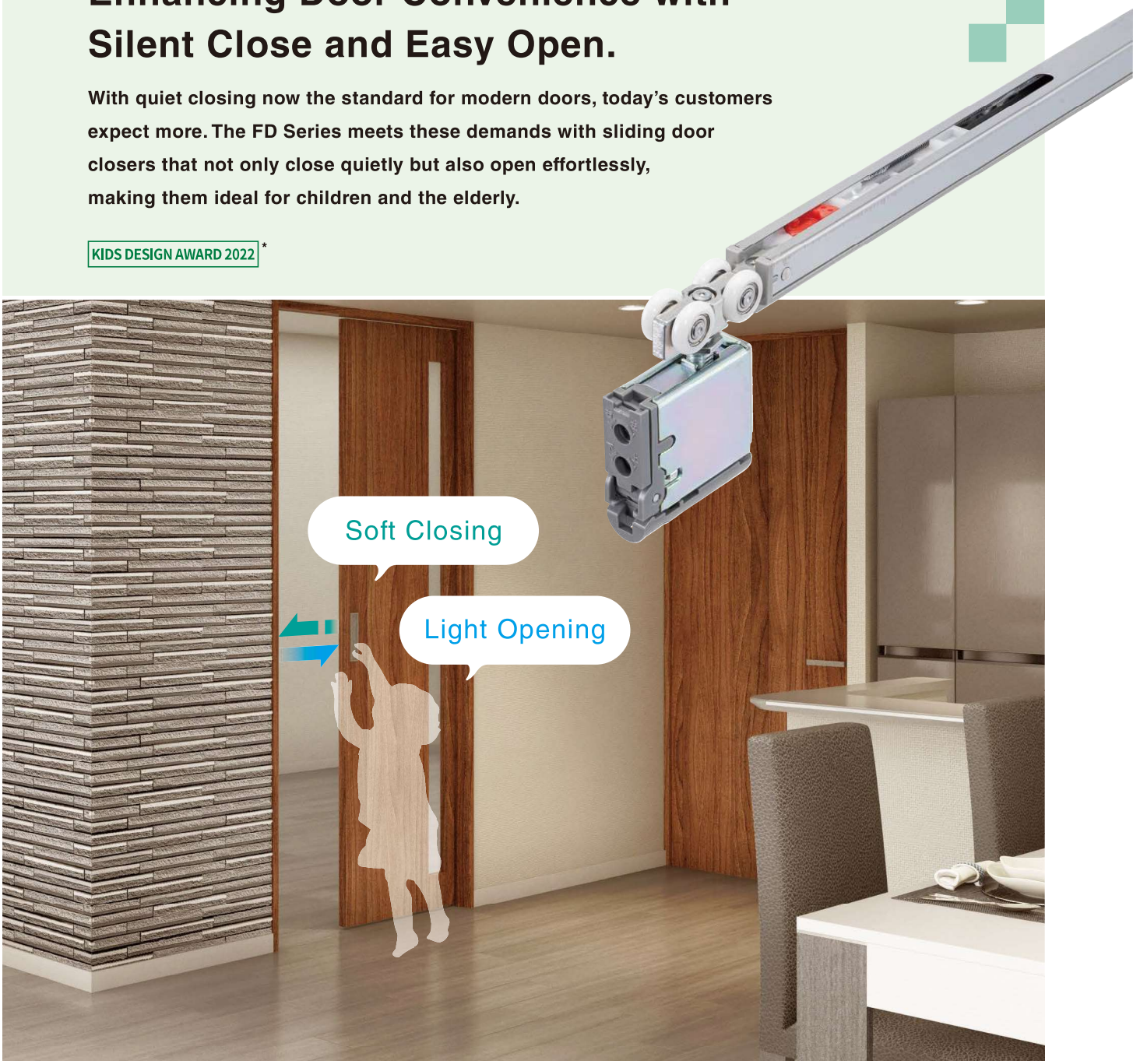
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- Selection Tools

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Enhancing Door Convenience with Silent Close and Easy Open.

With quiet closing now the standard for modern doors, today's customers expect more. The FD Series meets these demands with sliding door closers that not only close quietly but also open effortlessly, making them ideal for children and the elderly.

KIDS DESIGN AWARD 2022 *



*Products Awarded: FD25SP, FD30EX, FD30SP, FD35EV, and FD50SP (Two-way Damper / Recessed Upper Roller)



Our own durability tests, such as sandbag tests, have proven the product's strength as well.
This is another way we have raised the standards for our door systems.

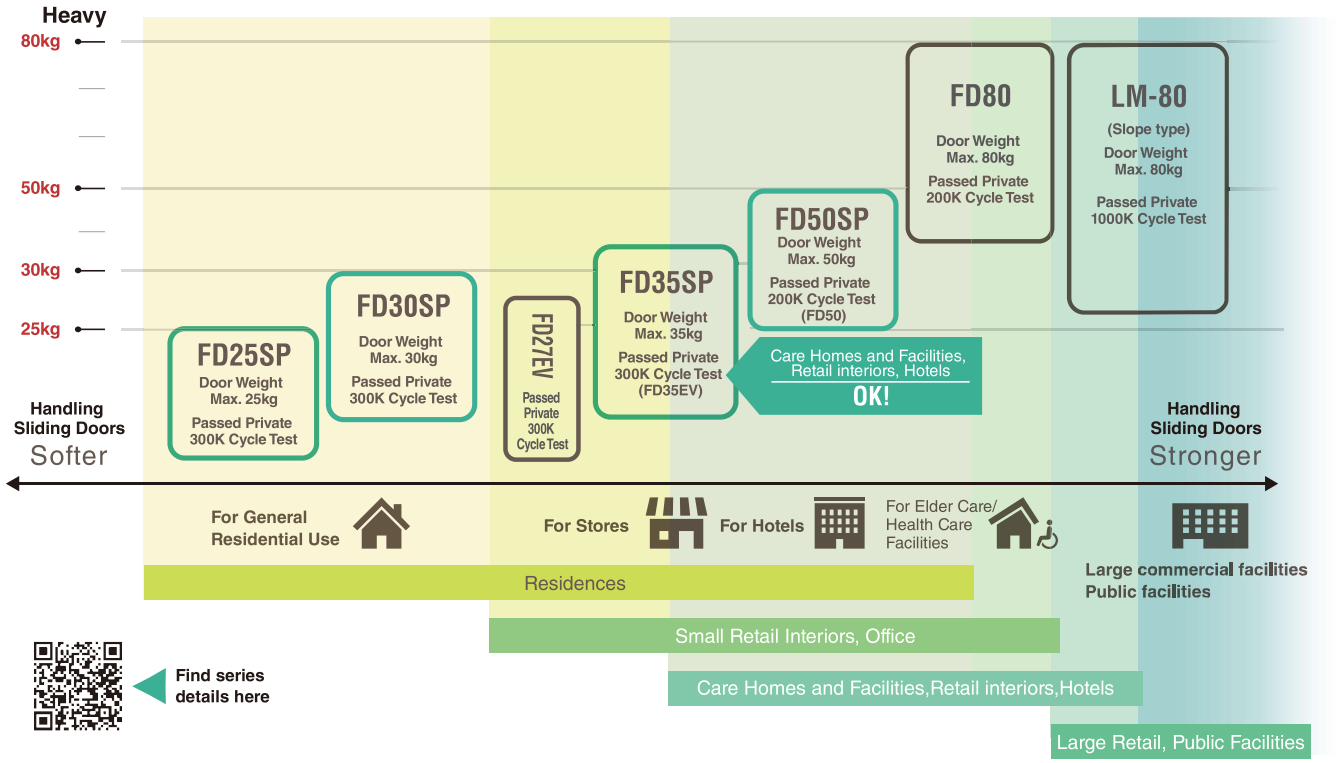
Choose the FD Series to create architectural fittings that keep the customer consistently satisfied.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

FD Series
Expanded Lineup
INFORMATION

The expanded lineup offers sliding door closers with various applications, environments, and door sizes.

FD Series | Full Lineup

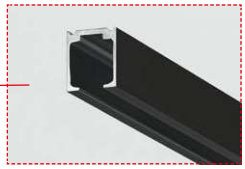


*Please make sure the door is within the specifications.
*The applications listed here are based on previous applications. They are not a guarantee of effectiveness.
*The cycle tests were performed according to internal company standards. They are not a guaranteed number.
*For hospitals and multi-purpose toilets that will have entry hundreds of times a day by different people, please consider using LM-80.

BLACK Lineup of black tracks and parts



Black can be used for the parts visible after mounting as well as the tracks, better matching the sliding doors.



	FD35EV	FD50	FD80
Standard Upper Track (Surface Mount)	●	–	●
Standard Upper Track (Recessed Mount)	●	–	–
End Plate for Upper Track	●	–	●
Upper Roller Cover Cap	●	●	–
Cap for Hanging Bracket	–	–	●
Spacer Block	●	–	–
Bumper Block	●	–	–
Retrofit Trigger	●	–	–

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD25SP Two-way Damper / Recessed Upper Roller NEW

Latest Info

- The sliding door system slides smoothly and operates with little effort. This FD series model was designed specifically to reduce installation time.
- The two-way damper enables the door to be opened and closed smoothly and quietly.

Passed Private 300K Cycle Test

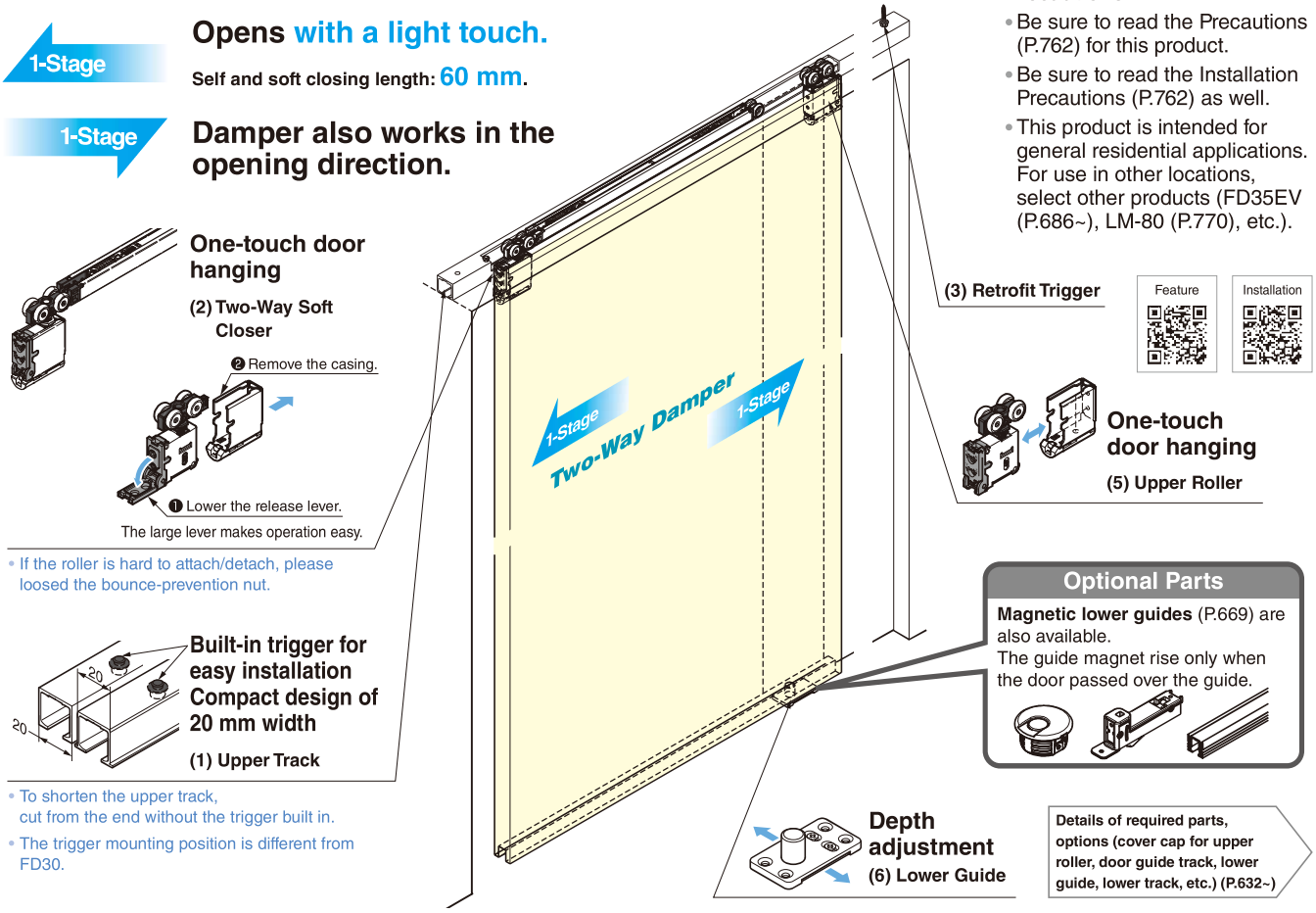
Movement Features	Door Size (per door)	Adjustment
Two-Way Damper	Min. 24 mm; Max. 2400 mm; 464-1000 mm; MAX 25kg	±3 mm; ±2 mm

GOOD DESIGN KIDS DESIGN AWARD 2022

1-Stage Opens with a light touch.

Self and soft closing length: 60 mm.

1-Stage Damper also works in the opening direction.



One-touch door hanging
(2) Two-Way Soft Closer

❷ Remove the casing.

❶ Lower the release lever.

The large lever makes operation easy.

- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.

Built-in trigger for easy installation Compact design of 20 mm width
(1) Upper Track

- To shorten the upper track, cut from the end without the trigger built in.
- The trigger mounting position is different from FD30.

(3) Retrofit Trigger

Feature | Installation

One-touch door hanging
(5) Upper Roller

Depth adjustment
(6) Lower Guide

INSTRUCTION

Precautions

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35EV (P.686~), LM-80 (P.770), etc.).

Optional Parts

Magnetic lower guides (P.669) are also available.
The guide magnet rise only when the door passed over the guide.

Details of required parts, options (cover cap for upper roller, door guide track, lower guide, lower track, etc.) (P.632~)

Standard Parts List

For details of (1) Upper Track, see "Type of Upper Track" (P.619).

Parts	Selection		Required					Required
	(1) Upper Track Surface Mount	(1) Upper Track Recessed Mount	(2) Two-Way Soft Closer*1	(3) Retrofit Trigger	(4) Jig	(5) Upper Roller	(6) Lower Guide (with roller)	(7) Stopper Block
Item Code / Item Name	Select upper track for either surface or recessed mount		250-050-820 FD25SP-WRH-DSC	Included with Two-Way Soft Closer	Included with Two-Way Soft Closer	250-050-822 FD25SP-WRH-N	Light brown colour. Other colours available (P.632). 250-017-151 FD30-HBG-LBR	To be installed into upper track. 250-017-139 FD30-HSB
Single Sliding Door	1820 mm × 1 pc		1 pc	1 pc	1 pc	1 pc	1 pc	–
Overlapping Sliding Doors	1820 mm × 2 pcs		2 pcs	2 pcs	2 pcs	2 pcs	2 pcs	–
Opposite Opening Sliding Doors	1820 mm × 2 pcs		2 pcs	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs

Parts Set — Item Code: 250-052-618 — Item Name: FD25SPDHCP

Parts Set — Item Code: 250-052-618 — Item Name: FD25SPDHCP (×2)

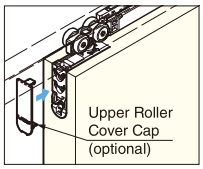
Parts Set — Item Code: 250-052-618 — Item Name: FD25SPDHCP (×2)

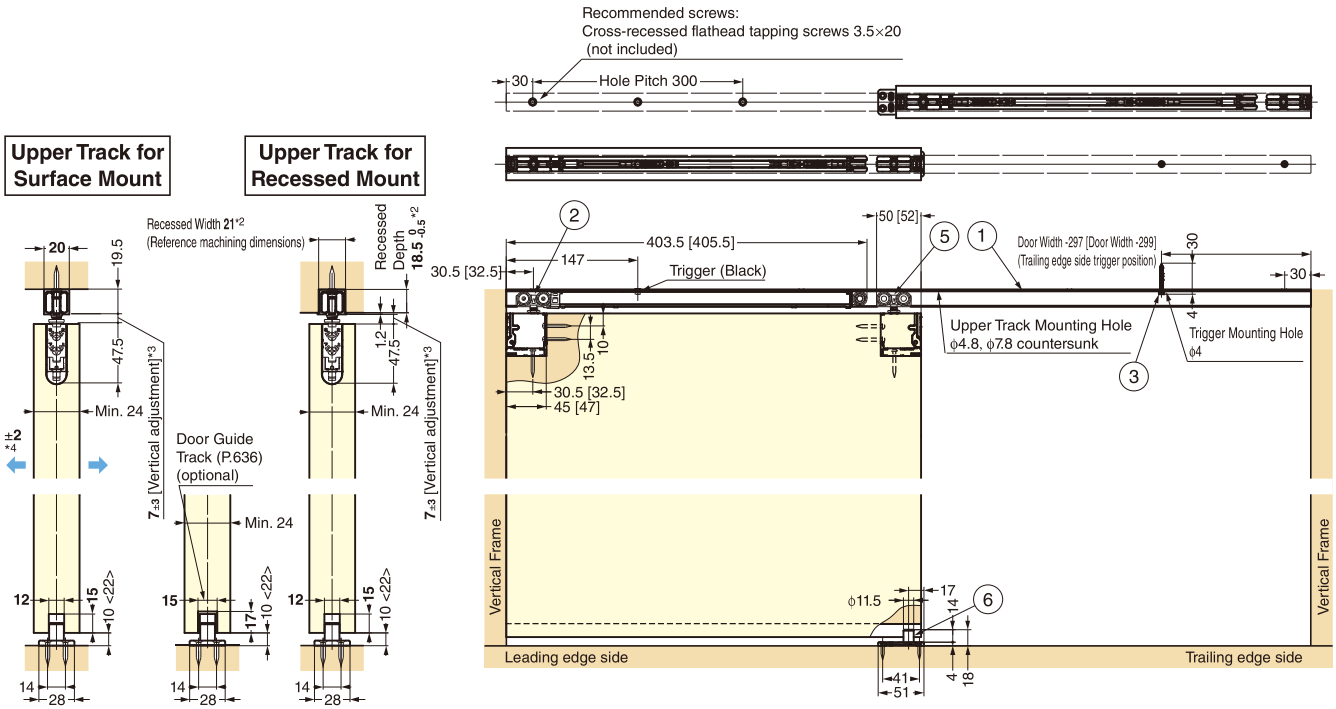
*1 Includes (3) Retrofit Trigger, (4) Trigger Mounting Jig and spanner. Also available for individual purchase. (P.632)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

*2 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*3 The gap between the upper track and the door can be adjusted within a range of -3 mm to +3 mm.
*4 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm.

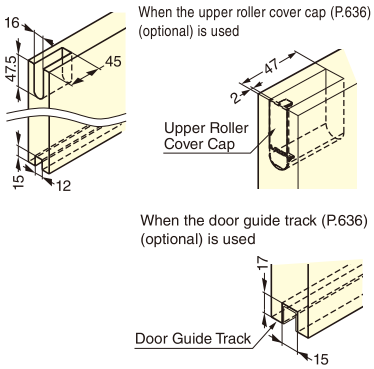




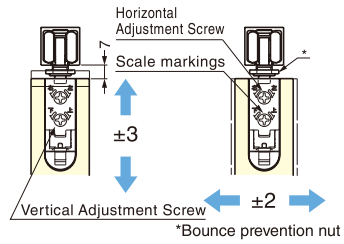
Embedded Lower Guide Track (optional)

[ ] indicates the dimensions when the upper roller cover cap (P.636) (optional) is attached.
< > indicates the dimensions when the lower guide (long shaft) (P.636) (optional) is attached.
The trigger mounting position is different from the FD30.
Also see the instructions on calculating the trigger mounting position (P.766).

Cut Out Dimensions



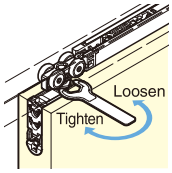
Door Adjustment



- Adjustment is possible with one No.2 ⊕ screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

With bounce prevention function

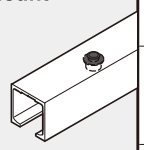
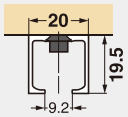
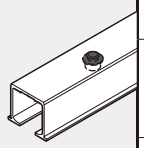
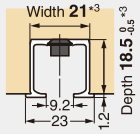
Prevents the door from bouncing up while the soft-close function is operating.



After adjusting, tighten the bounce prevention nuts (required parts (2) and (5)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Type of Upper Track

Recommended screws: Cross-recessed flathead tapping screws 3.5 × 20

Upper Track	Length mm	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Surface Mount  	1820	250-052-635 FD25SP-TRM1820SC-SL	250-052-636 FD25SP-TRM1820SC-UM	250-052-637 FD25SP-TRM1820SC-WT
	2000	250-052-638 FD25SP-TRM2000SC-SL	250-052-639 FD25SP-TRM2000SC-UM	250-052-640 FD25SP-TRM2000SC-WT
	2730	250-052-641 FD25SP-TRM2730SC-SL	250-052-642 FD25SP-TRM2730SC-UM	250-052-643 FD25SP-TRM2730SC-WT
	3640	250-052-644 FD25SP-TRM3640SC-SL	250-052-645 FD25SP-TRM3640SC-UM	250-052-646 FD25SP-TRM3640SC-WT
Recessed Mount  	1820	250-052-647 FD25SP-TRH1820SC-SL	250-052-648 FD25SP-TRH1820SC-UM	250-052-649 FD25SP-TRH1820SC-WT
	2000	250-052-650 FD25SP-TRH2000SC-SL	250-052-651 FD25SP-TRH2000SC-UM	250-052-652 FD25SP-TRH2000SC-WT
	2730	250-052-653 FD25SP-TRH2730SC-SL	250-052-654 FD25SP-TRH2730SC-UM	250-052-655 FD25SP-TRH2730SC-WT
	3640	250-052-656 FD25SP-TRH3640SC-SL	250-052-657 FD25SP-TRH3640SC-UM	250-052-658 FD25SP-TRH3640SC-WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD25SP One-way Damper / Recessed Upper Roller NEW

Latest Info

- The sliding door system slides smoothly and operates with little effort. This FD series model was designed specifically to reduce installation time.
- The one-way damper enables the door to be closed smoothly and quietly.

Passed Private 300K Cycle Test

Movement Features	Door Size (per door)	Adjustment
One-Way Damper	Min. 24 mm / Max. 2400 mm / 410-1000 mm / MAX 25kg	±3 mm / ±2 mm

Opens with a light touch.

1-Stage

Self and soft closing length: 60 mm.

Feature | Installation

One-touch door hanging
(2) Single Soft Closer

❷ Remove the casing.

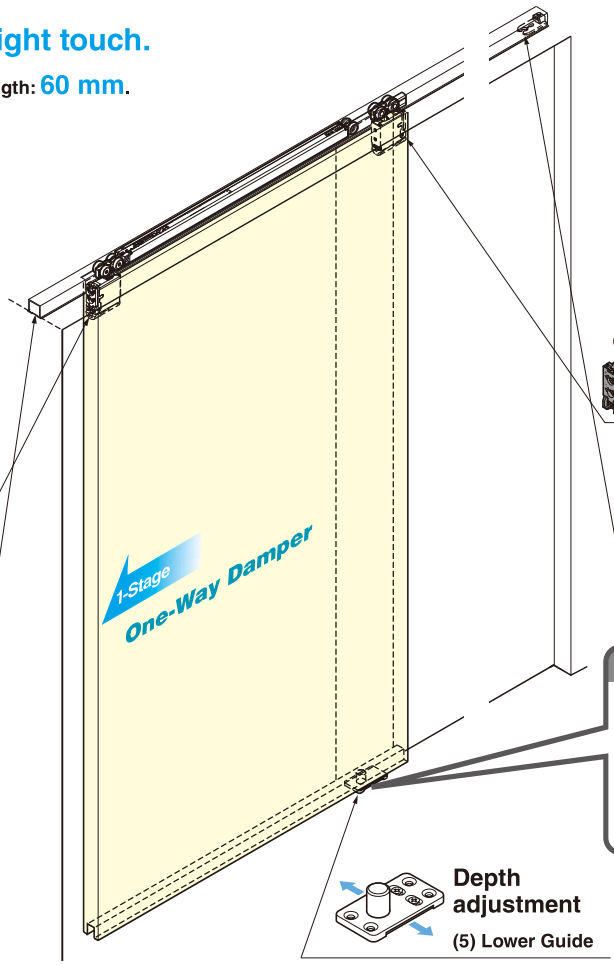
❶ Lower the release lever.

The large lever makes operation easy.

- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.

Built-in trigger for easy installation Compact design of 20 mm width
(1) Upper Track

- To shorten the upper track, cut from the end without the trigger built in.
- The trigger mounting position is different from FD30.



One-touch door hanging
(3) Upper Roller (for recessed mount)

(4) Upper Catch

Depth adjustment
(5) Lower Guide

INSTRUCTION

Precautions
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35EV (P.686~), LM-80 (P.770), etc.).

Optional Parts

Magnetic lower guides (P.669) are also available.
The guide magnet rise only when the door passed over the guide.

Details of required parts, options (retrofit trigger, cover cap for upper roller, door guide track, lower guide, lower track, etc.) (P.632~)

Standard Parts List

For details of (1) Upper Track, see "Type of Upper Track" (P.621).

Parts	Selection		Required				Required
	(1) Upper Track	(1) Upper Track	(2) Single Soft Closer*1	(3) Upper Roller	(4) Upper Catch	(5) Lower Guide (with roller)	(6) Stopper Block
	Surface Mount	Recessed Mount			Dark brown colour. Other colours available (P.632).	Light brown colour. Other colours available (P.632).	To be installed into upper track.
Item Code / Item Name	Select upper track for either surface or recessed mount		250-050-821 FD25SP-WRH-SC	250-050-823 FD25SP-WRH	250-019-969 FD30-HTST-DB	250-017-151 FD30-HBG-LBR	250-017-139 FD30-HSB
Single Sliding Door	1820 mm × 1 pc		1 pc	1 pc	1 pc	1 pc	–
Overlapping Sliding Doors	1820 mm × 2 pcs		2 pcs	2 pcs	2 pcs	2 pcs	–
Opposite Opening Sliding Doors	1820 mm × 2 pcs		2 pcs	2 pcs	2 pcs	2 pcs	2 pcs

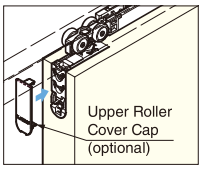
Parts Set — Item Code: 250-052-619 — Item Name: FD25SPHCP (×2 for Overlapping / Opposite Opening)

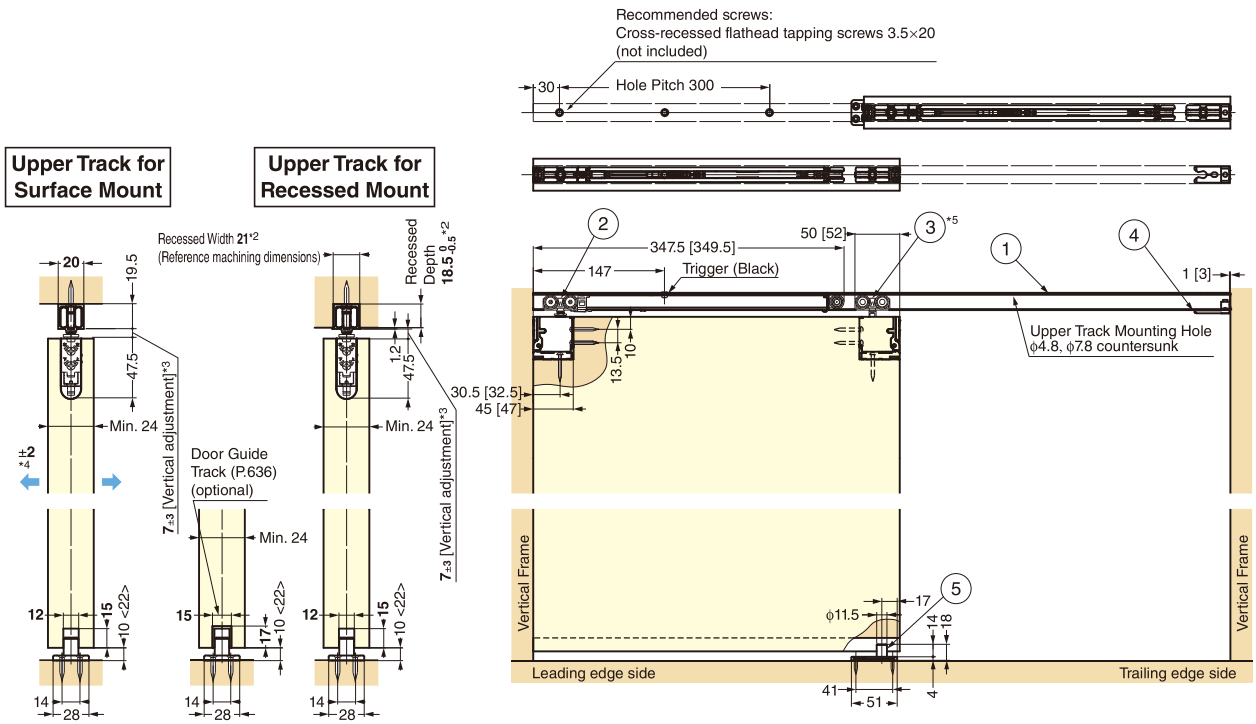
*1 Includes a spanner. Also available for individual purchase. (P.632)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

*2 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*3 The gap between the upper track and the door can be adjusted within a range of -3 mm to +3 mm.
*4 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm.
*5 Replace the trailing edge side upper roller with a Single Soft Close (P.632) + retrofit trigger (P.632) to fit out the opening direction with soft close specifications as well (minimum door with 710 mm).

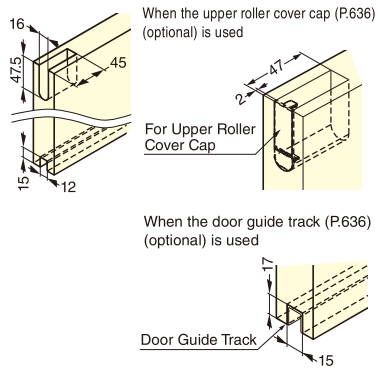




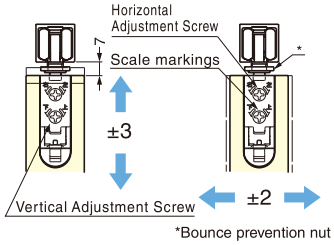
Embedded Lower Guide Track (optional)

[ ] indicates the dimensions when the upper roller cover cap (P.636) (optional) is attached.
< > indicates the dimensions when the lower guide (long shaft) (P.636) (optional) is attached.
The trigger mounting position is different from the FD30.

Cut Out Dimensions



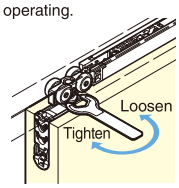
Door Adjustment



- Adjustment is possible with one No.2 ⊕ screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

With bounce prevention function

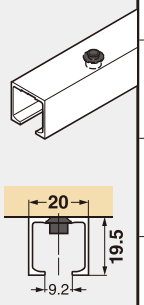
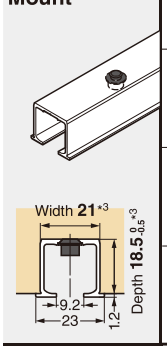
Prevents the door from bouncing up while the soft-close function is operating.



After adjusting, tighten the bounce prevention nuts (required part (2)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Type of Upper Track

Recommended screws: Cross-recessed flathead tapping screws 3.5 × 20

Upper Track	Length mm	Silver Item Code / Item Name	Amber Item Code / Item Name	White Item Code / Item Name
Surface Mount 	1820	250-052-635 FD25SP-TRM1820SC-SL	250-052-636 FD25SP-TRM1820SC-UM	250-052-637 FD25SP-TRM1820SC-WT
	2000	250-052-638 FD25SP-TRM2000SC-SL	250-052-639 FD25SP-TRM2000SC-UM	250-052-640 FD25SP-TRM2000SC-WT
	2730	250-052-641 FD25SP-TRM2730SC-SL	250-052-642 FD25SP-TRM2730SC-UM	250-052-643 FD25SP-TRM2730SC-WT
	3640	250-052-644 FD25SP-TRM3640SC-SL	250-052-645 FD25SP-TRM3640SC-UM	250-052-646 FD25SP-TRM3640SC-WT
Recessed Mount 	1820	250-052-647 FD25SP-TRH1820SC-SL	250-052-648 FD25SP-TRH1820SC-UM	250-052-649 FD25SP-TRH1820SC-WT
	2000	250-052-650 FD25SP-TRH2000SC-SL	250-052-651 FD25SP-TRH2000SC-UM	250-052-652 FD25SP-TRH2000SC-WT
	2730	250-052-653 FD25SP-TRH2730SC-SL	250-052-654 FD25SP-TRH2730SC-UM	250-052-655 FD25SP-TRH2730SC-WT
	3640	250-052-656 FD25SP-TRH3640SC-SL	250-052-657 FD25SP-TRH3640SC-UM	250-052-658 FD25SP-TRH3640SC-WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD25SP Without Damper / Recessed Upper Roller NEW

Latest Info

- The sliding door system slides smoothly and operates with little effort. This FD series model was designed specifically to reduce installation time.

Passed Private 300K Cycle Test

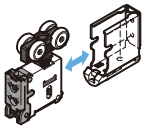
Movement Features	Door Size (per door)	Adjustment
–	Min. 24 mm, Max. 2400 mm, Max. 1000 mm, MAX 25kg	±3 mm, ±2 mm

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INSTRUCTION

Precautions

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35EV (P.686~), LM-80 (P.770), etc.).

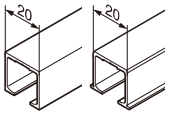


One-touch door hanging

(2) Upper Roller

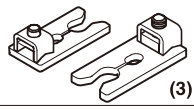
The roller can be mounted or removed easily.

- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.



Compact design of 20 mm width

(1) Upper Track

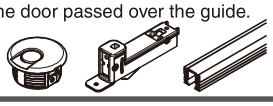


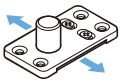
(3) Upper Catch

Feature Installation

Optional Parts

Magnetic lower guides (P.669) are also available.
The guide magnet rise only when the door passed over the guide.





Depth adjustment

(4) Lower Guide

Details of required parts, options (cover cap for upper roller, door guide track, lower guide, lower track, etc.) (P.632~)

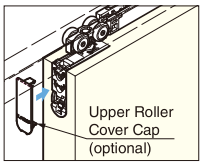
Standard Parts List

For details of (1) Upper track, see "Type of Upper Track" (P.623).

Parts	Selection		Required		
	(1) Upper Track	(1) Upper Track	(2) Upper Roller	(3) Upper Catch	(4) Lower Guide (with roller)
	Surface Mount	Recessed Mount			
Item Code / Item Name	Select upper track for either surface or recessed mount		250-050-823 FD25SP-WRH	250-019-969 FD30-HTST-DB	250-017-151 FD30-HBG-LBR
				Dark brown colour. Other colours available (P.632).	Light brown colour. Other colours available (P.632).
Single Sliding Door	1820 mm × 1 pc		2 pcs	2 pcs	1 pc
			Parts Set	Item Code: 250-052-620 Item Name: FD25SPHHP	
Overlapping Sliding Doors	1820 mm × 2 pcs		4 pcs	4 pcs	2 pcs
			Parts Set	Item Code: 250-052-620 Item Name: FD25SPHHP (×2)	

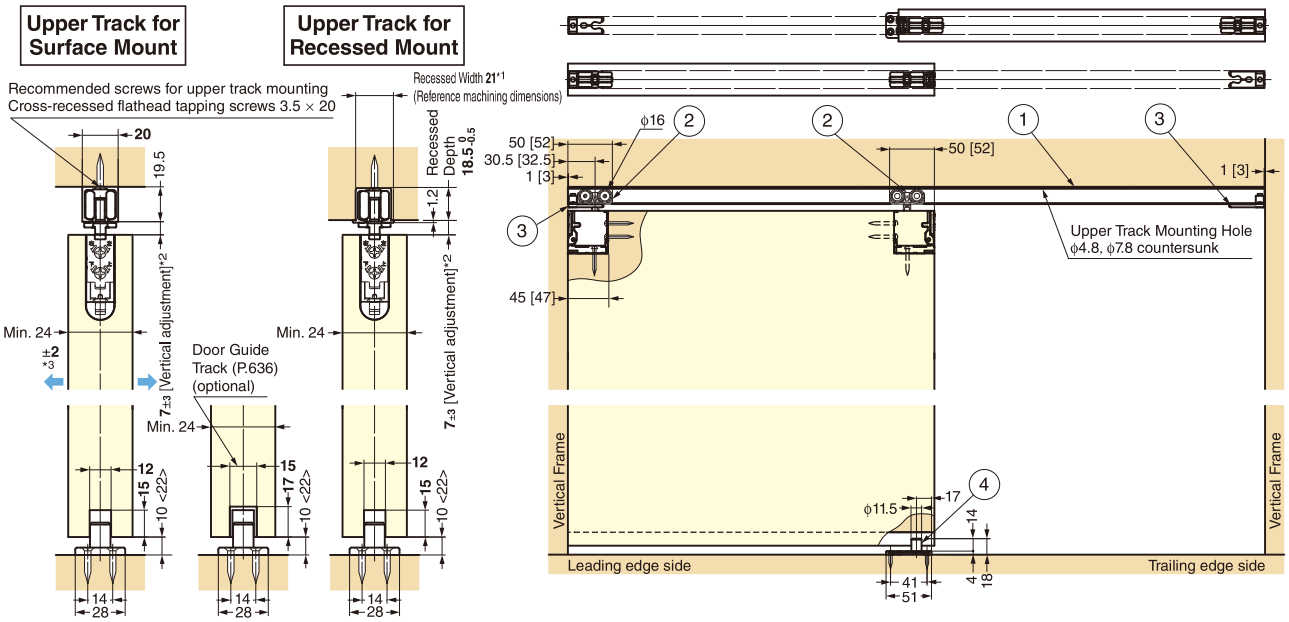
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

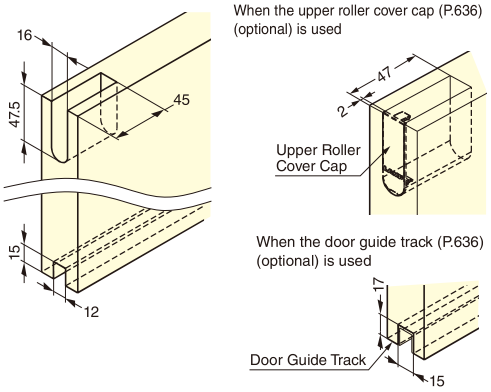


*1 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*2 The door position can be adjusted vertically within a range of -3 mm to +3 mm.
*3 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm.

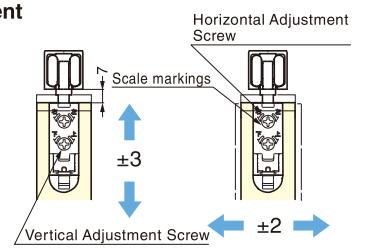
[ ] indicates the dimensions when the upper roller cover cap (P.636) (optional) is attached.
< > indicates the dimensions when the lower guide (long shaft) (P.636) (optional) is attached.



Cut Out Dimensions

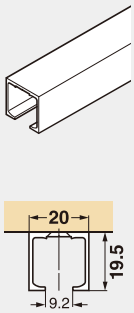
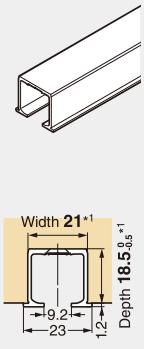


Door Adjustment



- Adjustment is possible with one No.2 ⊕ screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

Type of Upper Track Recommended screws: Cross-recessed flathead tapping screws 3.5 × 20

Upper Track	Length mm	Silver Item Code / Item Name	Amber Item Code / Item Name	White Item Code / Item Name
Surface Mount 	910	250-017-962 FD30-TRM910SIL	250-017-963 FD30-TRM910UM	250-025-152 FD30-TRM910WT
	1820	250-017-131 FD30-TRM1820SIL	250-017-132 FD30-TRM1820UM	250-025-154 FD30-TRM1820WT
	2000	250-018-861 FD30-TRM2000SIL	250-018-862 FD30-TRM2000UM	250-025-166 FD30-TRM2000WT
	2730	250-017-966 FD30-TRM2730SIL	250-017-967 FD30-TRM2730UM	250-025-156 FD30-TRM2730WT
	3000	250-018-865 FD30-TRM3000SIL	250-018-866 FD30-TRM3000UM	250-025-168 FD30-TRM3000WT
	3640	250-017-970 FD30-TRM3640SIL	250-017-971 FD30-TRM3640UM	250-025-158 FD30-TRM3640WT
	4000	250-018-869 FD30-TRM4000SIL	250-018-870 FD30-TRM4000UM	250-025-170 FD30-TRM4000WT
Recessed Mount 	910	250-017-964 FD30-TRH910SIL	250-017-965 FD30-TRH910UM	250-025-153 FD30-TRH910WT
	1820	250-017-133 FD30-TRH1820SIL	250-017-134 FD30-TRH1820UM	250-025-155 FD30-TRH1820WT
	2000	250-018-863 FD30-TRH2000SIL	250-018-864 FD30-TRH2000UM	250-025-167 FD30-TRH2000WT
	2730	250-017-968 FD30-TRH2730SIL	250-017-969 FD30-TRH2730UM	250-025-157 FD30-TRH2730WT
	3000	250-018-867 FD30-TRH3000SIL	250-018-868 FD30-TRH3000UM	250-025-169 FD30-TRH3000WT
	3640	250-017-972 FD30-TRH3640SIL	250-017-973 FD30-TRH3640UM	250-025-159 FD30-TRH3640WT
	4000	250-018-871 FD30-TRH4000SIL	250-018-872 FD30-TRH4000UM	250-025-171 FD30-TRH4000WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD25SP Two-way Damper / Outset / Recessed Upper Roller NEW

Latest Info

- Outset model of FD25SP.
- Wall-mounted upper track.
- Easy installation on existing doorways.
- Soft opening/closing motion.
- Lightest sliding in the FD series.

Passed Private 300K Cycle Test

Movement Features	Door Size (per door)	Adjustment
Two-Way Damper	30-36 mm; Max. 2400 mm; 464-1000 mm; MAX 25kg	±3 mm; ±2 mm

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SCREW INSTRUCTION

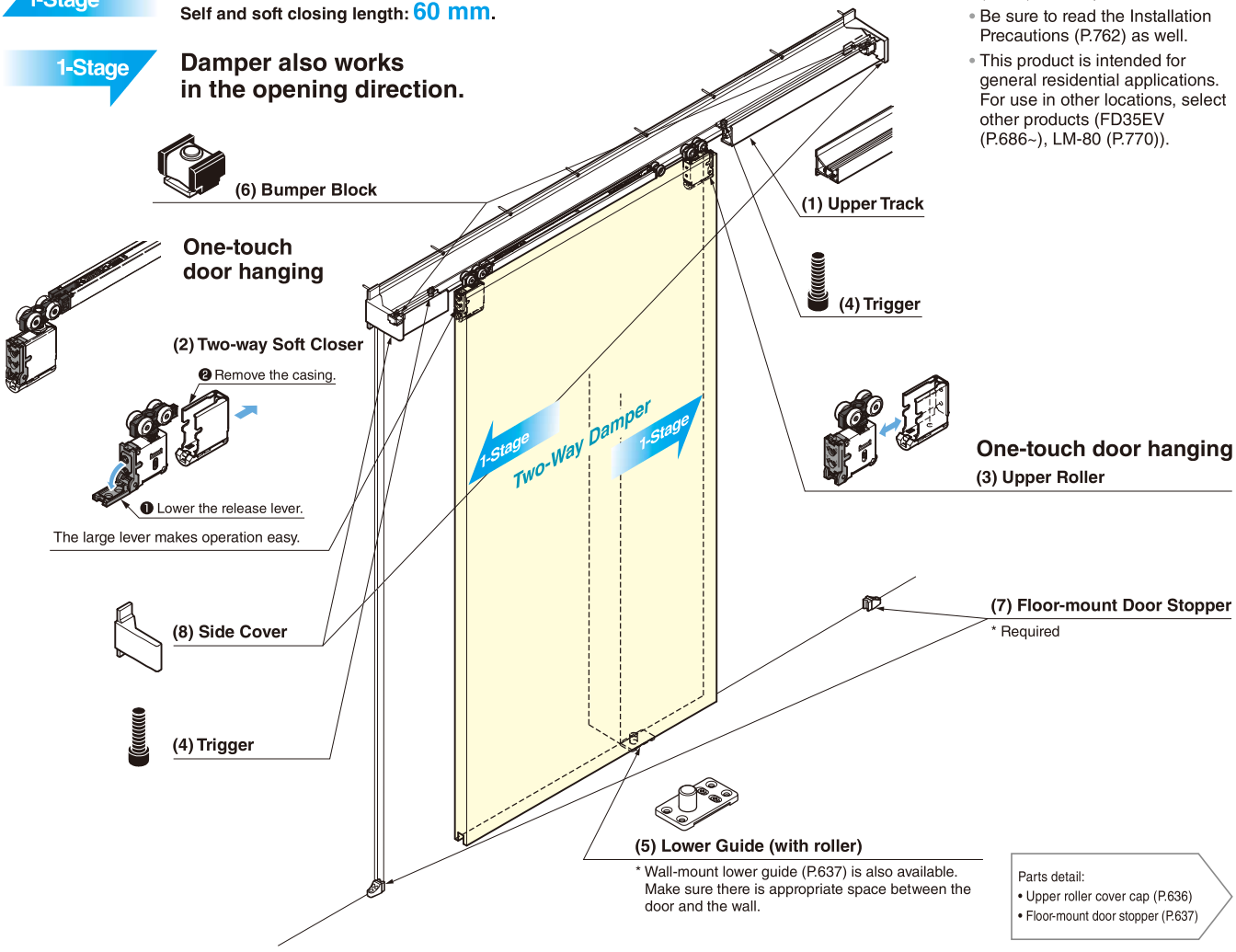
Precautions

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35EV (P.686~), LM-80 (P.770)).

1-Stage **Opens with a light touch.**

Self and soft closing length: 60 mm.

1-Stage **Damper also works in the opening direction.**



Parts detail:
- Upper roller cover cap (P.636)
- Floor-mount door stopper (P.637)

Standard Parts List

See [Types of Upper Tracks] for details (P.625).

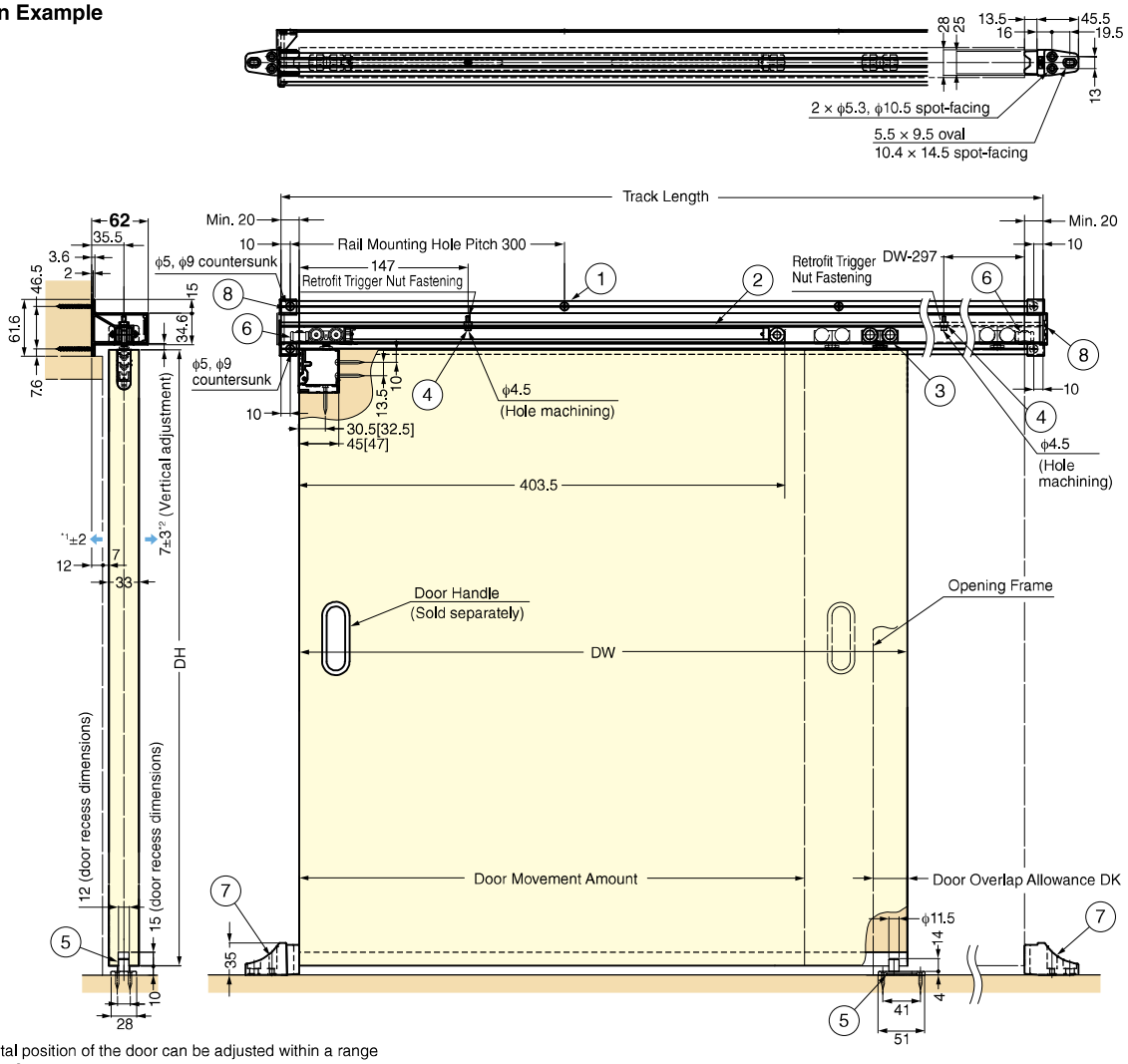
Parts	Selection	Required						Selection
	(1) Upper Track	(2) Two-way Soft Closer	(3) Upper Roller	(4) Trigger 2 pcs	(5) Lower Guide (with roller)	(6) Bumper Block	(7) Floor-mount Door Stopper	(8) Side Cover
					Light brown colour. Other colours available (P.632).			
Item Code Item Name		250-050-820 FD25SP-WRH-DSC	250-050-822 FD25SP-WRH-N	250-054-917 FD25SP-TRGA	250-017-151 FD30-HBG-LBR	250-022-265 FD30-HBB	250-018-497 FD30-HTKY	
	2100 mm × 1 pc	1 pc	1 pc	1 set	1 pc	2 pcs	2 pcs	1 Set (Grey) 250-022-273 FD30-HASC-GR 1 Set (Brown) 250-022-449 FD30-HASC-BR 1 Set (White) 250-025-640 FD30-HASC-WT

Parts Set — Item Code: 250-054-980 — Item Name: FD25SPDHCP-AK

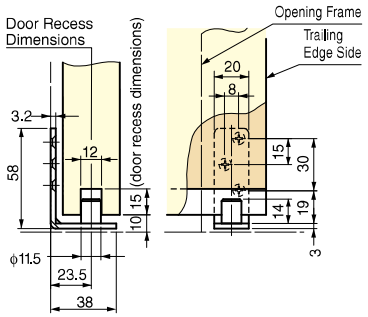
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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Installation Example

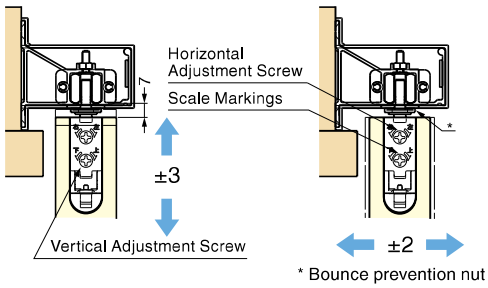


*1 The horizontal position of the door can be adjusted within a range of –2 mm to +2 mm.
*2 The gap between the upper track and the door can be adjusted within a range of –3 mm to +3 mm.



Wall-mount lower guide (with roller) (P.637) (Optional) Usage Example

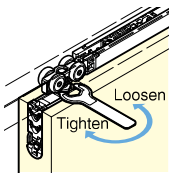
Door Adjustment Excluding the optional sliding door brake



- Adjustment is possible with one No.2 ⊕ screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

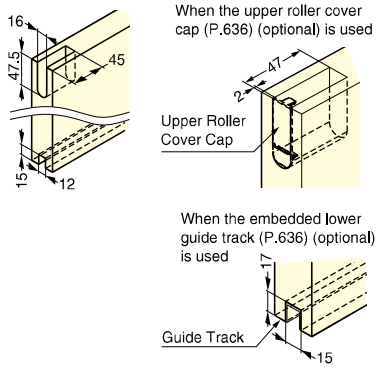
With bounce prevention function

Prevents the door from bouncing up while the soft-close function is operating.



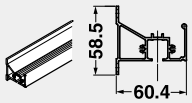
After adjusting, tighten the bounce prevention nuts (required part (2) (3) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Cut Out Dimensions



Types of Upper Track

Included screws: Cross-recessed flathead tapping screws 4 × 40

Type	Length	Silver	Amber	White
		Item Code Item Name	Item Code Item Name	Item Code Item Name
(1) Upper Track (outset)	2100 mm	250-022-269 FD30-TRA2100SL	250-022-270 FD30-TRA2100UM	250-025-172 FD30-TRA2100WT
	2730 mm	250-022-271 FD30-TRA2730SL	250-022-272 FD30-TRA2730UM	250-025-173 FD30-TRA2730WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Update: 04.04.2025

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD25SP Two-way Damper / Synchronized 2-door / Recessed Upper Roller NEW

Latest Info

- 2-door synchro model of FD25SP.
- Soft opening/closing motion.
- Lightest sliding in the FD series.

Passed Private 300K Cycle Test

Movement Features	Door Size (per door)	Adjustment
Two-Way Damper	30-38 mm / Max. 2400 mm / 464-1000 mm / MAX 25kg	±3 mm / ±2 mm

SCREW INSTRUCTION

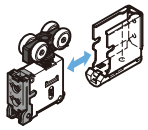
Precautions

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35EV (P.686~), LM-80 (P.770)).

1-Stage **Opens with a light touch.**

Self and soft closing length: 60 mm.

1-Stage **Damper also works in the opening direction.**

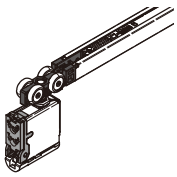


One-touch door hanging

(5) Upper Roller (Two-way Soft Closer)



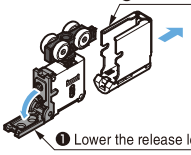
(11) Bumper Block



One-touch door hanging

(2) Two-way Soft Closer

❷ Remove the casing.



❶ Lower the release lever.

The large lever makes operation easy.

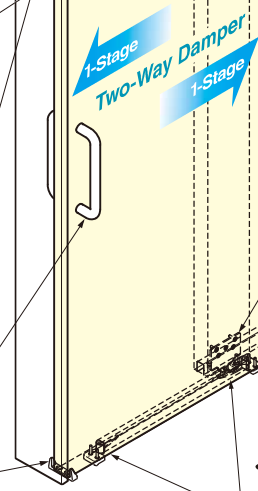


(8) Door-mount Lower Guide



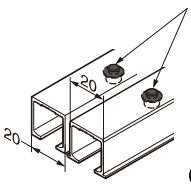
(9) Frame-mount Lower Guide

Do not use this to connect doors. Please use the lower guide (8).





(10) Lower Guide Block



Built-in trigger for easy installation Compact design of 20 mm width

(1) Upper Track

- To shorten the upper track, please cut it on the side without the trigger.
- The trigger mounting position is different from FD30.



(12) Recessed Lower Guide Track (1000 mm)

Handle (sold separately)

Anti-vibration Bracket (optional)



(7) Lower Guide Receiver

Parts detail:
• Anti-vibration bracket (P.637)

Standard Parts List

See [Types of Upper Tracks] for details (P.627).

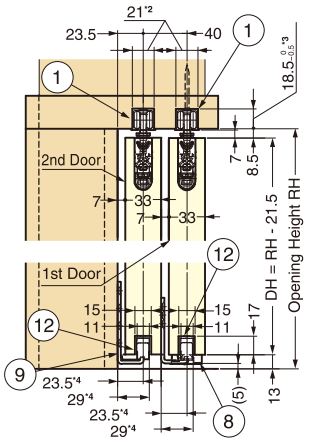
Parts	Selection		Required										
	(1) Upper Track Surface Mount	(1) Upper Track Recessed Mount	(2) Two-way Soft Closer*1	(6) Retrofit Trigger	(4) Jig	(5) Upper Roller (Two-way Soft Closer)	(6) Retrofit Trigger	(7) Lower Guide Receiver (1pc each L/R)	(8) Door-mount Lower Guide	(9) Frame-mount Lower Guide	(10) Lower Guide Block	(11) Bumper Block	(12) Recessed Lower Guide Track (1000 mm)
Item Code	Select upper track for either surface or recessed mount		250-050-820	Included with Two-way Soft Closer	Included with Two-way Soft Closer	250-050-822	250-052-630	250-022-261	250-022-262	250-022-263	250-022-264	250-022-265	250-022-266
Item Name			FD25SP-WRH-DSC			FD25SP-WRH-N	FD25SP-30-TRG	FD30-HRGU	FD30-HRDG	FD30-HBGF	FD30-HRDB	FD30-HBB	FD30-HBDR1000
	1820 mm × 2 pcs		2 pcs	2 pcs	1 pc	2 pcs	1 pc	1 set	1 pc	1 pc	1 pc	1 pc	2 pcs

Parts Set — Item Code: 250-054-978 — Item Name: FD25SP-HRP2

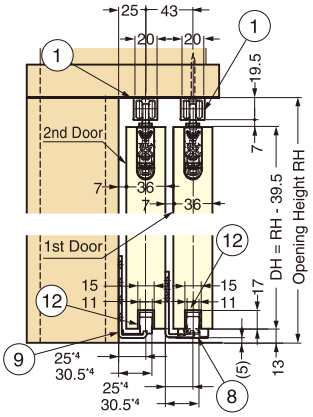
*1 Includes (3) Retrofit Trigger, (4) Trigger Mounting Jig and spanner. Also available for individual purchase. (P.632)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

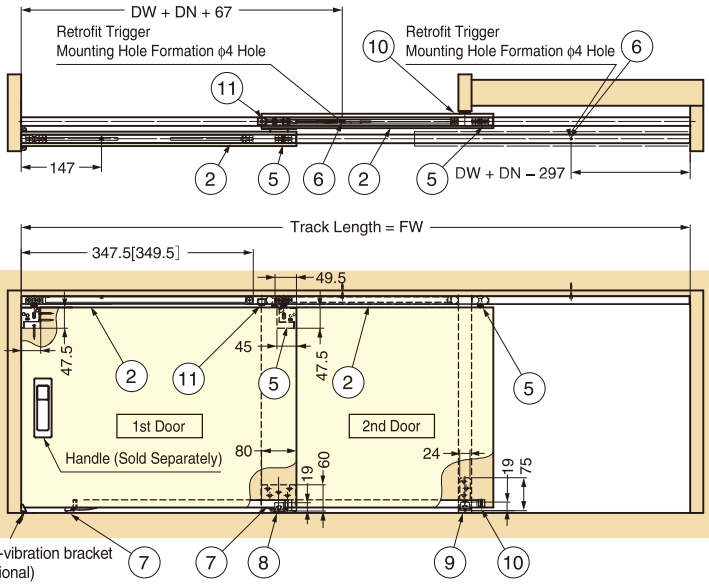


Door Thickness 33 mm (Recessed-mount upper track)

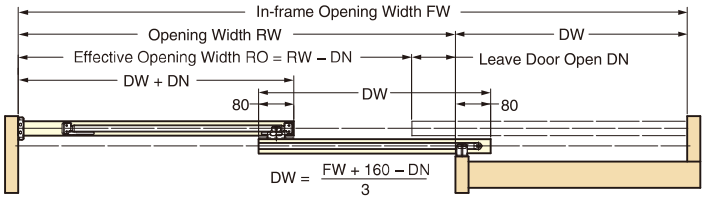


Door Thickness 36 mm (Surface-mount upper track)

Effective Opening Width RO = 766 to 1838 mm (when there is no door left open DN)
686 to 1758 mm (for door left open DN 80 mm)



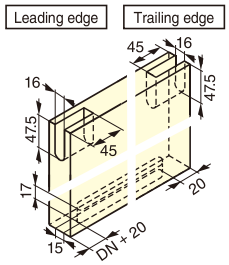
[ ] indicates the dimensions when the upper roller cover cap (P.636) (optional) is attached.



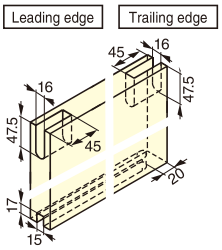
*2 Recess Fabrication Dimension is 21 (reference machining dimensions)
If wrapping with a cloth, account for the dimensions of the cloth.
*3 Reference machining dimensions
*4 Supported by replacing the guide block parts of the lower guide (8) with the door for interlock, and the lower guide with the frame (9).

Cut Out Dimensions

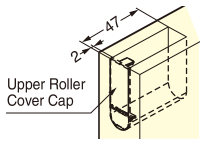
1st Door



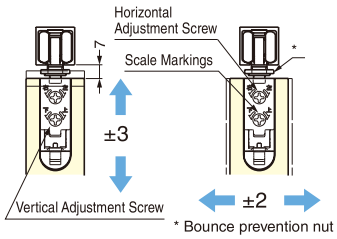
2nd Door



When the upper roller cover cap (P.636) (optional) is used



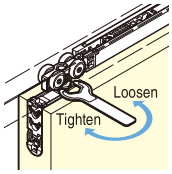
Door Adjustment



- Adjustment is possible with one No.2 ⊕ screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

With bounce prevention function

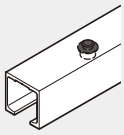
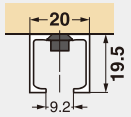
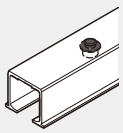
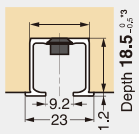
Prevents the door from bouncing up while the soft-close function is operating.



After adjusting, tighten the bounce prevention nuts (required parts (2) and (5)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track

Recommended screws: Cross-recessed flathead tapping screws 3.5 × 20

Type	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Upper Track Surface Mount	1820 mm	250-052-635 FD25SP-TRM1820SC-SL	250-052-636 FD25SP-TRM1820SC-UM	250-052-637 FD25SP-TRM1820SC-WT
	2000 mm	250-052-638 FD25SP-TRM2000SC-SL	250-052-639 FD25SP-TRM2000SC-UM	250-052-640 FD25SP-TRM2000SC-WT
	2730 mm	250-052-641 FD25SP-TRM2730SC-SL	250-052-642 FD25SP-TRM2730SC-UM	250-052-643 FD25SP-TRM2730SC-WT
	3640 mm	250-052-644 FD25SP-TRM3640SC-SL	250-052-645 FD25SP-TRM3640SC-UM	250-052-646 FD25SP-TRM3640SC-WT
(1) Upper Track Recessed Mount	1820 mm	250-052-647 FD25SP-TRH1820SC-SL	250-052-648 FD25SP-TRH1820SC-UM	250-052-649 FD25SP-TRH1820SC-WT
	2000 mm	250-052-650 FD25SP-TRH2000SC-SL	250-052-651 FD25SP-TRH2000SC-UM	250-052-652 FD25SP-TRH2000SC-WT
Width 21 0 -0.3 *3	2730 mm	250-052-653 FD25SP-TRH2730SC-SL	250-052-654 FD25SP-TRH2730SC-UM	250-052-655 FD25SP-TRH2730SC-WT
	3640 mm	250-052-656 FD25SP-TRH3640SC-SL	250-052-657 FD25SP-TRH3640SC-UM	250-052-658 FD25SP-TRH3640SC-WT

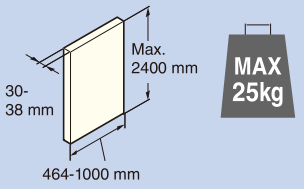
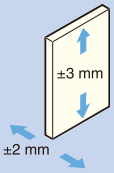
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD25SP Two-way Damper / Recessed Upper Roller / 3 Synchronised Doors NEW

Latest Info

- 3-door synchro model of FD25SP.
- Soft opening/closing motion.
- Lightest sliding in the FD series.

Passed Private 300K Cycle Test

Movement Features	Door Size (per door)	Adjustment
Two-Way Damper		

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

SCREW | INSTRUCTION

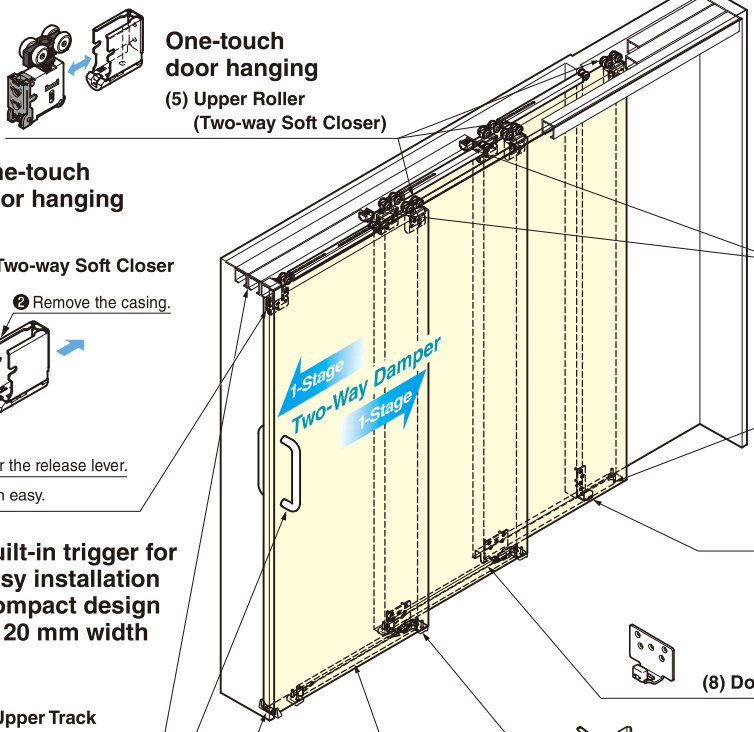
Precautions

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35EV (P.686~), LM-80 (P.770)).

1-Stage **Opens with a light touch.**

Self and soft closing length: **60 mm**.

1-Stage **Damper also works in the opening direction.**

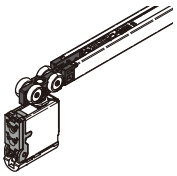


One-touch door hanging

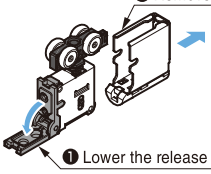
(5) Upper Roller (Two-way Soft Closer)

One-touch door hanging

(2) Two-way Soft Closer



❷ Remove the casing.



❶ Lower the release lever.

The large lever makes operation easy.



(11) Bumper Block



(10) Lower Guide Block



(9) Frame-mount Lower Guide

Do not use this to connect doors. Please use the lower guide (8).

(8) Door-mount Lower Guide

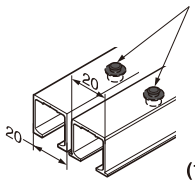


(7) Lower Guide Receiver



(12) Recessed Lower Guide Track (1000 mm)

Built-in trigger for easy installation Compact design of 20 mm width



(1) Upper Track

- To shorten the upper track, please cut it on the side without the trigger.
- The trigger mounting position is different from FD30.

Handle (Sold Separately)

Anti-vibration Bracket (optional)

Parts detail:
• Anti-vibration bracket (P.637)

Standard Parts List

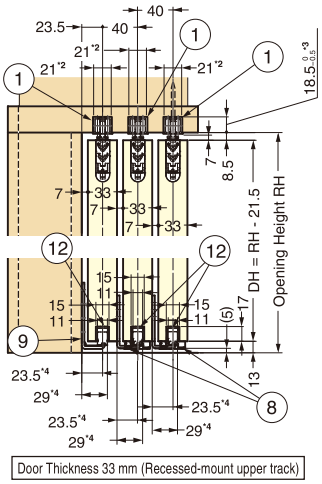
See [Types of Upper Tracks] for details (P.629).

Parts	Selection		Required										
	(1) Upper Track Surface Mount	(1) Upper Track Recessed Mount	(2) Two-way Soft Closer*1	(6) Retrofit Trigger	(4) Jig	(5) Upper Roller (Two-way Soft Closer)	(6) Retrofit Trigger	(7) Lower Guide Receiver (1pc each L/R)	(8) Door-mount Lower Guide	(9) Frame-mount Lower Guide	(10) Lower Guide Block	(11) Bumper Block	(12) Recessed Lower Guide Track (1000 mm)
Item Code	Select upper track for either surface or recessed mount		250-050-820	Included with Two-way Soft Closer	Included with Two-way Soft Closer	250-050-822	250-052-630	250-022-261	250-022-262	250-022-263	250-022-264	250-022-265	250-022-266
Item Name			FD25SP-WRH-DSC			FD25SP-WRH-N	FD25SP-30-TRG	FD30-HRGU	FD30-HRDG	FD30-HBGF	FD30-HRDB	FD30-HBB	FD30-HBDR1000
	1820 mm × 3 pcs		3 pcs	3 pcs	1 pc	3 pcs	2 pcs	2 set	2 pcs	1 pc	1 pc	2 pcs	3 pcs
			Parts Set — Item Code: 250-054-979 / Item Name: FD25SP-HRP3										

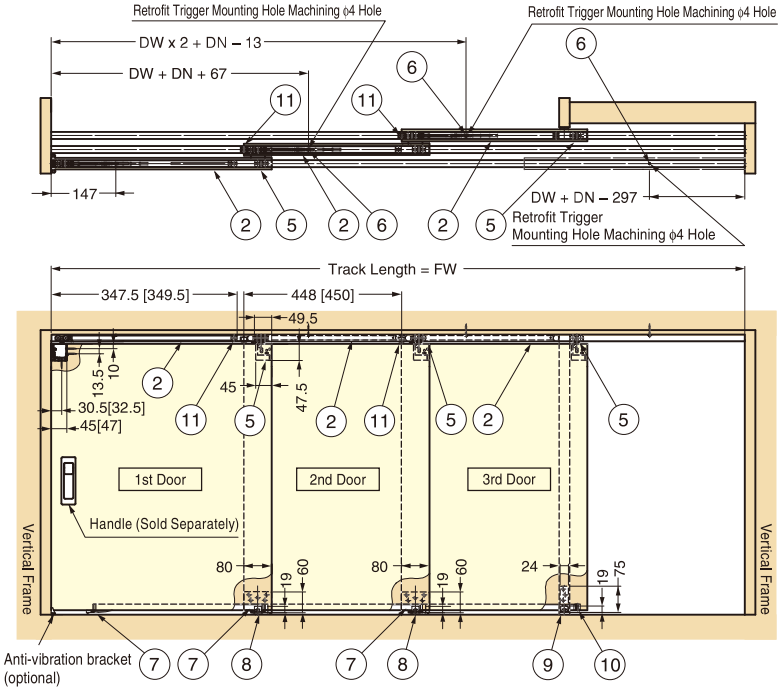
*1 Includes (3) Retrofit Trigger, (4) Trigger Mounting Jig and spanner. Also available for individual purchase. (P.632)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

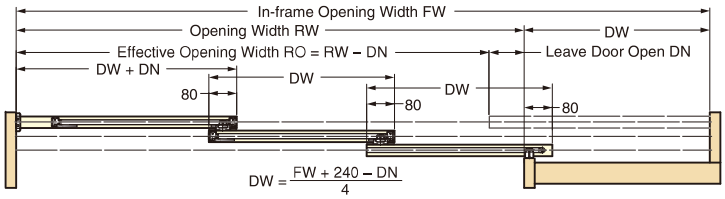
Installation Example



Effective Opening Width RO = 1152 mm to 2760 mm (when there is no door left open DN)
1072 mm to 2680 mm (when door left open DN 80 mm)



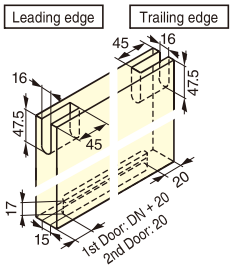
[ ] indicates the dimensions when the upper roller cover cap (P.636) (optional) is attached.



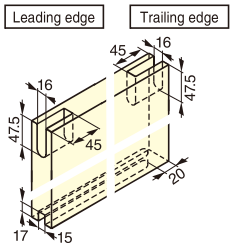
*2 Recess Fabrication Dimension is 21 (reference machining dimensions) If wrapping with a cloth, account for the dimensions of the cloth.
*3 Reference machining dimensions
*4 Supported by replacing the guide block parts of the lower guide (8) with the door for interlock, and the lower guide with the frame (9).

Cut Out Dimensions

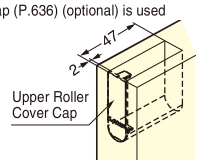
1st and 2nd Door



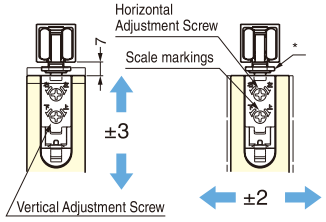
3rd Door



When the upper roller cover cap (P.636) (optional) is used



Door Adjustment

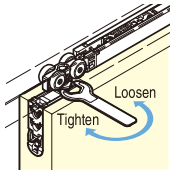


* Bounce prevention nut

- Adjustment is possible with one No.2 ⊕ screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

With bounce prevention function

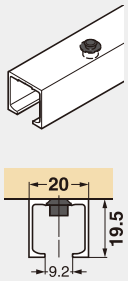
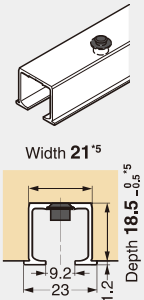
Prevents the door from bouncing up while the soft-close function is operating.



After adjusting, tighten the bounce prevention nuts (required parts (2) and (5)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track

Recommended screws: Cross-recessed flathead tapping screws 3.5 × 20

Type	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Upper Track Surface Mount 	1820 mm	250-052-635 FD25SP-TRM1820SC-SL	250-052-636 FD25SP-TRM1820SC-UM	250-052-637 FD25SP-TRM1820SC-WT
	2000 mm	250-052-638 FD25SP-TRM2000SC-SL	250-052-639 FD25SP-TRM2000SC-UM	250-052-640 FD25SP-TRM2000SC-WT
	2730 mm	250-052-641 FD25SP-TRM2730SC-SL	250-052-642 FD25SP-TRM2730SC-UM	250-052-643 FD25SP-TRM2730SC-WT
	3640 mm	250-052-644 FD25SP-TRM3640SC-SL	250-052-645 FD25SP-TRM3640SC-UM	250-052-646 FD25SP-TRM3640SC-WT
(1) Upper Track Recessed Mount 	1820 mm	250-052-647 FD25SP-TRH1820SC-SL	250-052-648 FD25SP-TRH1820SC-UM	250-052-649 FD25SP-TRH1820SC-WT
	2000 mm	250-052-650 FD25SP-TRH2000SC-SL	250-052-651 FD25SP-TRH2000SC-UM	250-052-652 FD25SP-TRH2000SC-WT
	2730 mm	250-052-653 FD25SP-TRH2730SC-SL	250-052-654 FD25SP-TRH2730SC-UM	250-052-655 FD25SP-TRH2730SC-WT
	3640 mm	250-052-656 FD25SP-TRH3640SC-SL	250-052-657 FD25SP-TRH3640SC-UM	250-052-658 FD25SP-TRH3640SC-WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD25SP Pocket Door / Two-way Damper / Recessed Upper Roller NEW

Latest Info

- Pocket door model of FD25SP.
- Separable upper tracks.
- Easy maintenance after installation.
- Soft opening/closing motion.
- Lightest sliding in the FD series.

Passed Private 300K Cycle Test

Movement Features	Door Size (per door)	Adjustment
Two-Way Damper	Min. 30 mm / Max. 2400 mm / 464-1000 mm / MAX 25kg	±3 mm / ±2 mm

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

SCREW INSTRUCTION

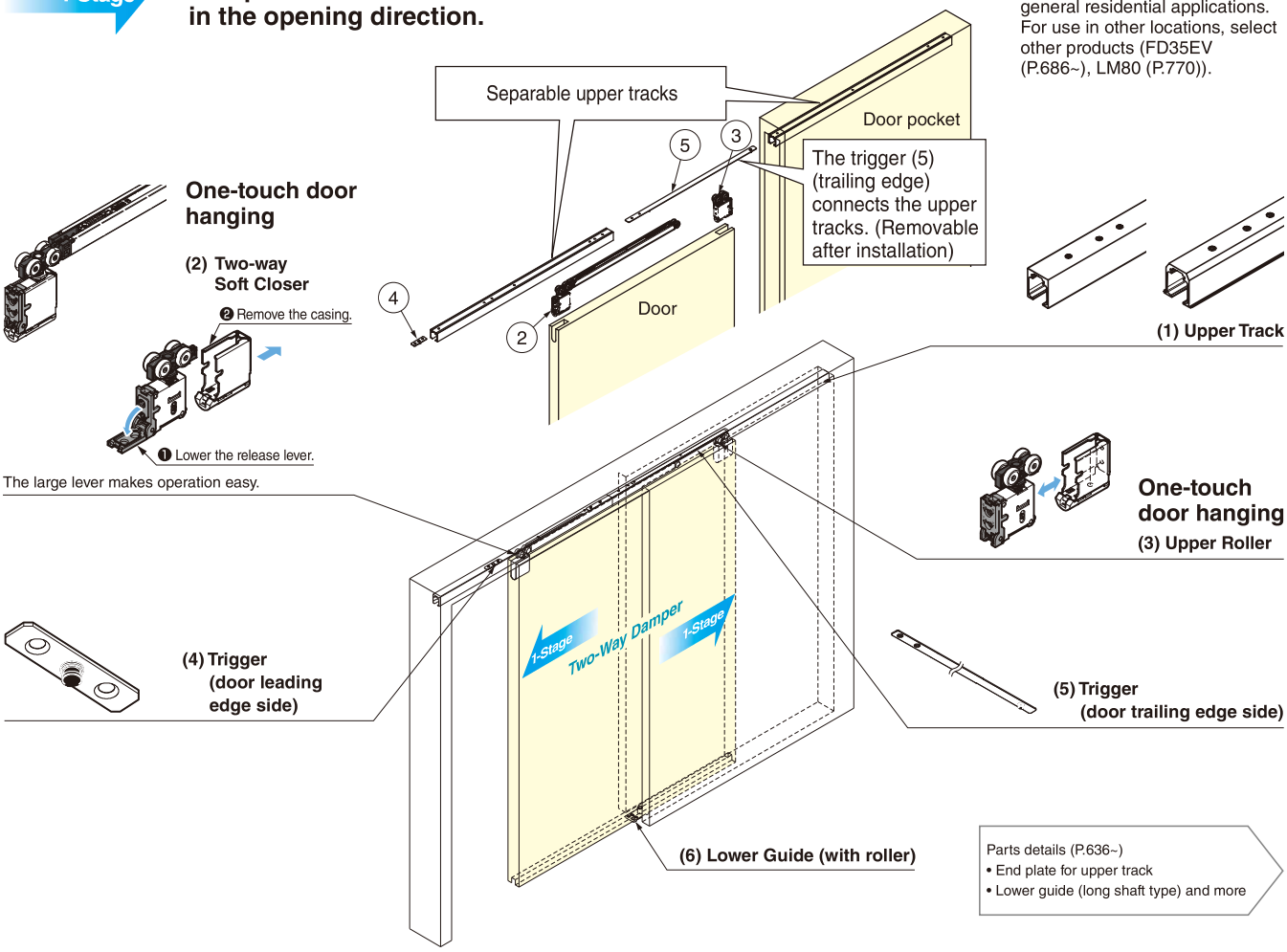
Precautions

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35EV (P.686~), LM80 (P.770)).

1-Stage **Opens with a light touch.**

Self and soft closing length: 60 mm.

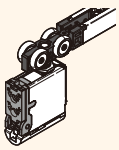
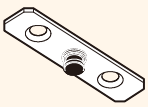
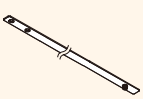
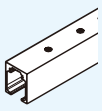
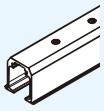
1-Stage **Damper also works in the opening direction.**



Parts details (P.636~)
- End plate for upper track
- Lower guide (long shaft type) and more

Standard Parts List

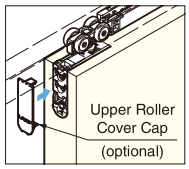
See [Types of Upper Tracks] for details (P.631).

Parts / Item Code / Item Name	Selection (1) Upper Track Surface Mount	Selection (1) Upper Track Recessed Mount	Required (2) Two-way Soft Closer*1	Required (3) Upper Roller	Required (4) Trigger	Required (5) Trigger	Required (6) Lower Guide (with roller)
							 Light brown colour. Other colours available (P.632).
							
Item Code			250-050-820	250-050-822	250-054-915	250-054-916	250-017-151
Item Name			FD25SP-WRH-DSC	FD25SP-WRH-N	FD25SP-TRGPF	FD25SP-TRGPB	FD30-HBG-LBR
	Select upper track for either surface or recessed mount		1 pc	1 pc	1 pc	1 pc	1 pc
	1860 mm × 1 pc (Cuttable)		Parts Set — Item Code: 250-054-981 — Item Name: FD25SPDHCP-PD				

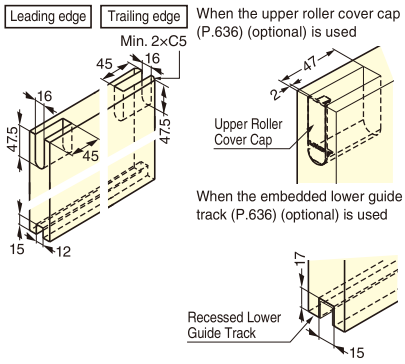
*1 Includes Retrofit Trigger, Trigger Mounting Jig and spanner. Also available for individual purchase. (P.632)

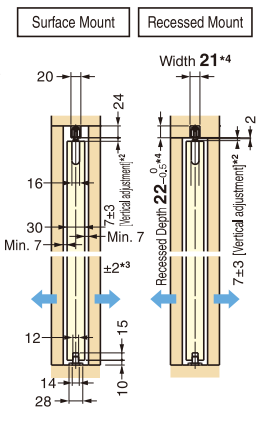
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

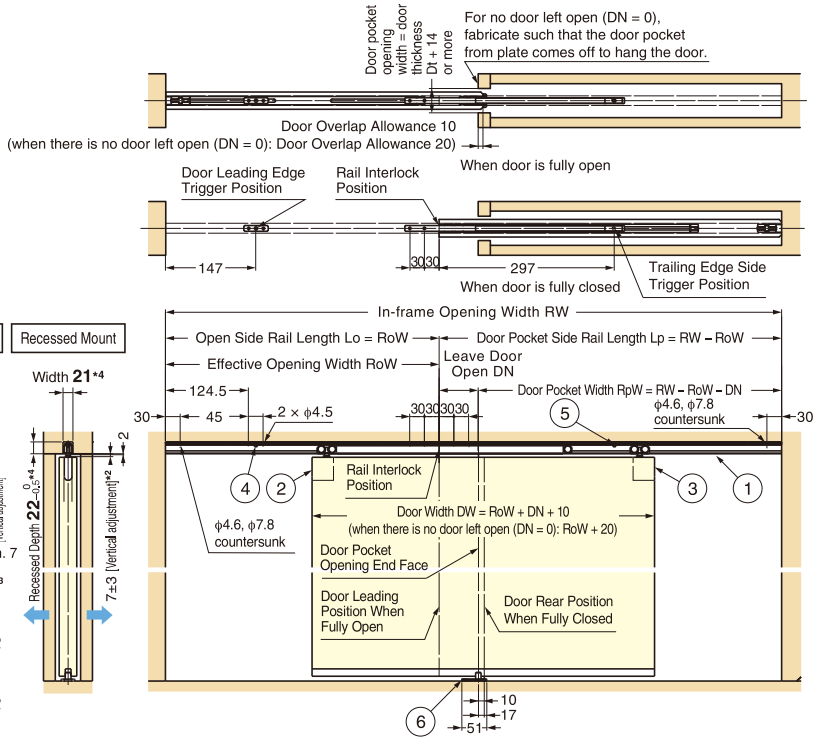


Cut Out Dimensions



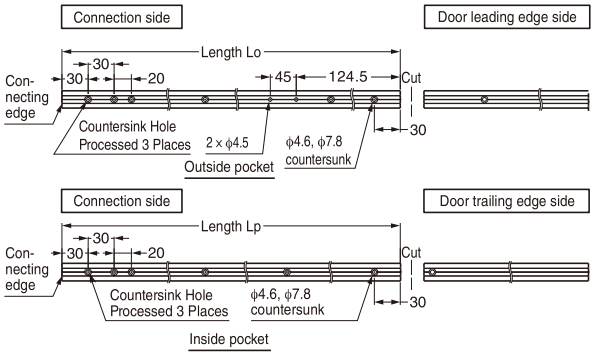


*2 The gap between the upper track and the door can be adjusted within a range of -3 mm to +4 mm.
*3 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm.
*4 If wrapping with a cloth, etc., account for the dimensions of the cloth.

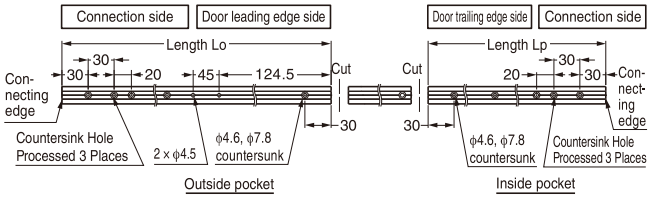


Upper Track Processing

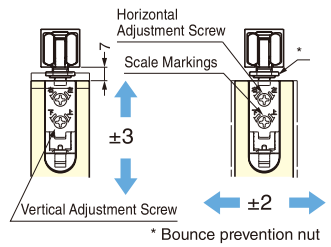
• Length: 860/1260mm (2pcs used)



• Length: 1860/2760/3960mm (1pc used)



Door Adjustment

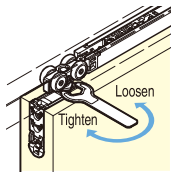


* Bounce prevention nut

- Adjustment is possible with one No.2 ⊕ screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

With bounce prevention function

Prevents the door from bouncing up while the soft-close function is operating.



After adjusting, tighten the bounce prevention nuts (required parts (2) and (3)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Tracks

Included screws: Cross-recessed flathead tapping screws 3.5 × 25

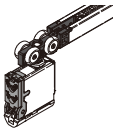
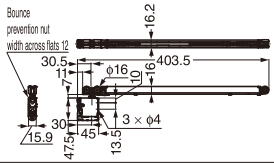
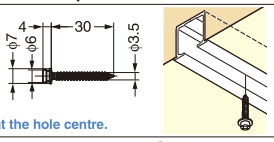
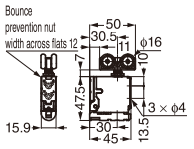
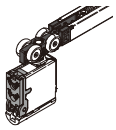
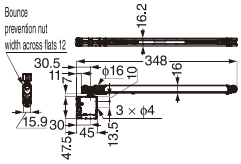
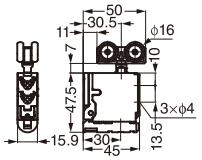
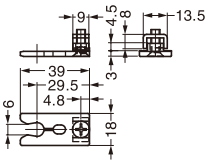
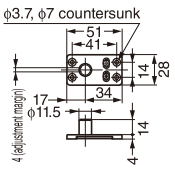
Type	Length	Silver Item Code	Silver Item Name	Amber Item Code	Amber Item Name	White Item Code	White Item Name
(1) Upper Track Surface Mount	860 mm	250-035-283	FD30-35EV-TRMP860-SL	250-035-288	FD30-35EV-TRMP860-UM	250-035-293	FD30-35EV-TRMP860-WT
	1260 mm	250-035-284	FD30-35EV-TRMP1260-SL	250-035-289	FD30-35EV-TRMP1260-UM	250-035-294	FD30-35EV-TRMP1260-WT
	1860 mm	250-035-285	FD30-35EV-TRMP1860-SL	250-035-290	FD30-35EV-TRMP1860-UM	250-035-295	FD30-35EV-TRMP1860-WT
	2760 mm	250-035-286	FD30-35EV-TRMP2760-SL	250-035-291	FD30-35EV-TRMP2760-UM	250-035-296	FD30-35EV-TRMP2760-WT
	3960 mm	250-035-287	FD30-35EV-TRMP3960-SL	250-035-292	FD30-35EV-TRMP3960-UM	250-035-297	FD30-35EV-TRMP3960-WT
(1) Upper Track Recessed Mount	860 mm	250-043-802	FD30-35EV-TRHP860-SL	250-043-807	FD30-35EV-TRHP860-UM	250-043-812	FD30-35EV-TRHP860-WT
	1260 mm	250-043-803	FD30-35EV-TRHP1260-SL	250-043-808	FD30-35EV-TRHP1260-UM	250-043-813	FD30-35EV-TRHP1260-WT
	1860 mm	250-043-804	FD30-35EV-TRHP1860-SL	250-043-809	FD30-35EV-TRHP1860-UM	250-043-814	FD30-35EV-TRHP1860-WT
	2760 mm	250-043-805	FD30-35EV-TRHP2760-SL	250-043-810	FD30-35EV-TRHP2760-UM	250-043-815	FD30-35EV-TRHP2760-WT
	3960 mm	250-043-806	FD30-35EV-TRHP3960-SL	250-043-811	FD30-35EV-TRHP3960-UM	250-043-816	FD30-35EV-TRHP3960-WT

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SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

PARTS TABLE

FD25SP (P.618~P.631)

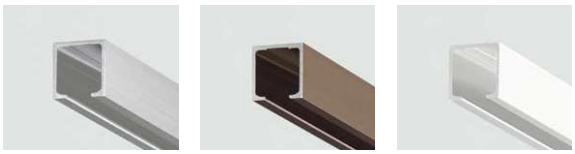
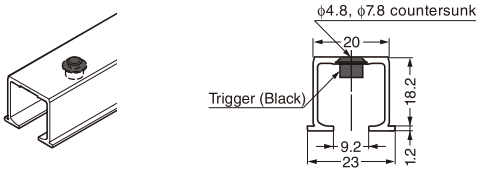
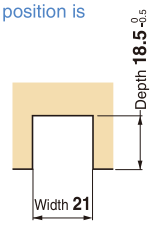
Name	Dimensions	Specifications		Item Code / Item Name
Two-Way Soft Closer Vertical Adjustment ±3 Horizontal Adjustment ±2 With retrofit trigger and trigger mounting jig for Two-Way Soft Close and synchronized sliding door specifications.  Dedicated machining jig (P.639)is available.		**A Two-Way Soft Close that slowly and safely opens and closes on both sides of the door. This recessed type enables the door to be mounted and removed without tools. The door can be adjusted vertically and horizontally comes with bounce prevention nuts.** • Main material: Steel/Polyacetal (POM) • Finish: Coloured chromate (trivalent)/Grey Included screws: Cross-recessed panhead tapping screws 3.5 × 30, 3 pcs		**250-050-820** **FD25SP-WRH-DSC**
Retrofit Trigger* *Included with Two-Way Damper and also available for individual purchase.  Be sure to mount vertically to the upper track and at the hole centre.		**Trigger used when retrofitting the Two-Way Soft Closer. 1 pc included with Two-Way Soft Closer. Track hole machining ϕ4 holes.** • Material: Steel • Finish: Black chromate (trivalent)		**250-052-630** **FD25SP-30-TRG**
Jig* *Included with Two-Way Damper and also available for individual purchase.  Read the precautions for installation (P.763) for information on using this product.	–	**A jig set to mount the FD25SP retrofit trigger on the track. 1 pc included with Two-Way Soft Closer.** • Material: Polyacetal (POM) • Colour: Orange		**250-024-555** **FD25SP-30-TRJ** **(Old Item Name: FD30-TRJ)**
Spanner 	–	**Use to tighten the hex heads of the bounce prevention nuts in the upper roller, Two-Way Soft Closer and Single Soft Closer. 1 pc included with Two-Way Soft Closer.** • Material: Steel • Finish: Coloured chromate (trivalent)		**250-052-629** **FDSP-SP**
Upper Roller (for Two-Way Soft Closer) Vertical Adjustment ±3 Horizontal Adjustment ±2  Dedicated machining jig (P.639) is available.		**This recessed type enables the door to be mounted and removed without tools. The door can be adjusted vertically and horizontally through controls at the door edge. With nuts to prevent door bouncing.** • Material: Steel/Polyacetal (POM) • Finish: Coloured chromate (trivalent)/Grey Included screws: Cross-recessed panhead tapping screws 3.5 × 30 3 pcs		**250-050-822** **FD25SP-WRH-N**
Single Soft Closer Vertical Adjustment ±3 Horizontal Adjustment ±2  Dedicated machining jig (P.639) is available.		**A Single Soft Closer which draws the door in slowly for safety. This recessed type enables the door to be mounted and removed without tools. The door can be adjusted vertically and horizontally. With nuts to prevent door bouncing.** • Main material: Steel/Polyacetal (POM) • Finish: Coloured chromate (trivalent)/Grey Included screws: Cross-recessed panhead tapping screws 3.5 × 30, 3 pcs		**250-050-821** **FD25SP-WRH-SC**
Spanner 	–	**Use to tighten the hex heads of the bounce prevention nuts in the upper roller, Two-Way Soft Closer and Single Soft Closer. 1 pc included with Single Soft Closer.** • Material: Steel • Finish: Coloured chromate (trivalent)		**250-052-629** **FDSP-SP**
Upper Roller Vertical Adjustment ±3 Horizontal Adjustment ±2  Dedicated machining jig (P.639) is available.		**This recessed type upper roller enables the door to be mounted and removed without tools. The door can be adjusted vertically and horizontally.** • Material: Steel/Polyacetal (POM) • Finish: Coloured chromate (trivalent)/ Grey Included screws: Cross-recessed panhead tapping screws 3.5 × 30 3 pcs		**250-050-823** **FD25SP-WRH**
Upper Catch  White  Grey  Dark Brown		**A upper catch to hold sliding doors closed.** • Material: Steel/Polyacetal (POM) • Finish: Coloured chromate/ White, grey, dark brown	White Grey Dark Brown	**250-025-698** **FD30-HTST-WT** **250-019-970** **FD30-HTST-GR** **250-019-969** **FD30-HTST-DB**
Lower Guide (with roller)  White  Light Brown  Dark Brown		**A lower guide with a depth adjustment mechanism.** • Material: Steel/Polyamide (PA) • Finish: Coloured chromate/ White, light brown, dark brown Included screws: Cross-recessed flathead tapping screws 3.5 × 30, 4 pcs	White Light Brown Dark Brown	**250-018-895** **FD30-HBG-WT** **250-017-151** **FD30-HBG-LBR** **(Old Item Name: FD30-HBG)** **250-018-896** **FD30-HBG-DB**

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UPPER TRACK FOR DAMPER MODEL

An end plate to cover the end of the top rail (P.636) and a cleaner to remove shavings left over after cutting the upper track (P.639) are also available.

FD25SP (P.618~P.623, P.626~P.629)

Name	Dimensions	Specifications			Item Code / Item Name
Upper Track (for surface mount)	  Hole Pitch: Approx. 300 mm Pitch End: Approx. 30 mm **[Caution]** • Do not cut the trigger end. This will cause the soft closing mechanism to stop working. If cut by accident, use the retrofit trigger (P.763). • The trigger mounting position is different from FD30.	**Comes with pre-assembled trigger for easy installation. This surface mount upper track has a rail width of 20 mm.** • Material Aluminium Alloy • Finish Silver: Silver Anodized + Coating/Clear Amber: Amber Anodized + Coating/Clear White: Anodized + Coating/White Recommended Screws Cross-recessed flathead tapping screws 3.5 × 20	Silver	Length 1820 mm	250-052-635 FD25SP-TRM1820SC-SL
				Length 2000 mm	250-052-638 FD25SP-TRM2000SC-SL
				Length 2730 mm	250-052-641 FD25SP-TRM2730SC-SL
				Length 3640 mm	250-052-644 FD25SP-TRM3640SC-SL
			Amber	Length 1820 mm	250-052-636 FD25SP-TRM1820SC-UM
				Length 2000 mm	250-052-639 FD25SP-TRM2000SC-UM
				Length 2730 mm	250-052-642 FD25SP-TRM2730SC-UM
				Length 3640 mm	250-052-645 FD25SP-TRM3640SC-UM
			White	Length 1820 mm	250-052-637 FD25SP-TRM1820SC-WT
				Length 2000 mm	250-052-640 FD25SP-TRM2000SC-WT
				Length 2730 mm	250-052-643 FD25SP-TRM2730SC-WT
				Length 3640 mm	250-052-646 FD25SP-TRM3640SC-WT
Upper Track (for recessed mount)	  Hole Pitch: Approx. 300 mm Pitch End: Approx. 30 mm **[Caution]** • Do not cut the trigger end. This will cause the soft closing mechanism to stop working. If cut by accident, use the retrofit trigger (P.763). • The trigger mounting position is different from FD30. 	**Comes with pre-assembled trigger for easy installation. This recessed mount upper track has a rail width of 20 mm.** • Material Aluminium Alloy • Finish Silver: Silver Anodized + Coating/Clear Amber: Amber Anodized + Coating/Clear White: Anodized + Coating/White Recommended Screws Cross-recessed flathead tapping screws 3.5 × 20	Silver	Length 1820 mm	250-052-647 FD25SP-TRH1820SC-SL
				Length 2000 mm	250-052-650 FD25SP-TRH2000SC-SL
				Length 2730 mm	250-052-653 FD25SP-TRH2730SC-SL
				Length 3640 mm	250-052-656 FD25SP-TRH3640SC-SL
			Amber	Length 1820 mm	250-052-648 FD25SP-TRH1820SC-UM
				Length 2000 mm	250-052-651 FD25SP-TRH2000SC-UM
				Length 2730 mm	250-052-654 FD25SP-TRH2730SC-UM
				Length 3640 mm	250-052-657 FD25SP-TRH3640SC-UM
			White	Length 1820 mm	250-052-649 FD25SP-TRH1820SC-WT
				Length 2000 mm	250-052-652 FD25SP-TRH2000SC-WT
				Length 2730 mm	250-052-655 FD25SP-TRH2730SC-WT
				Length 3640 mm	250-052-658 FD25SP-TRH3640SC-WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

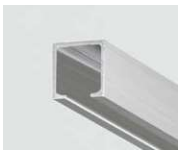
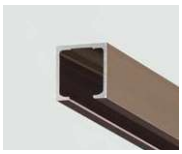
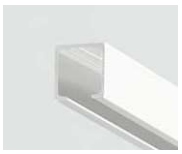
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

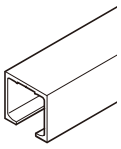
FD25SP (P.618~P.623, P.626~P.629)

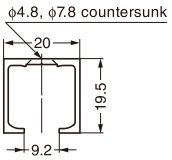
UPPER TRACK FOR DAMPERLESS MODEL

An end plate to cover the end of the top rail (P.636) and a cleaner to remove shavings left over after cutting the upper track (P.639) are also available.

Upper Track (For Surface Mount)





Hole Pitch: Approx. 300 mm
Pitch End: Approx. 30 mm

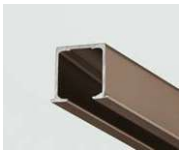
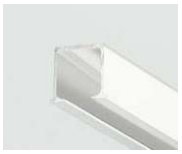
This surface mount upper track has a rail width of 20 mm.

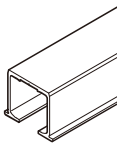
- Material
  Aluminium Alloy
- Finish
  Silver:
  Silver Anodized
  + Coating/Clear
  Amber:
  Amber Anodized
  + Coating/Clear
  White:
  Anodized
  + Coating/White

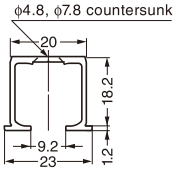
Recommended Screws
Cross-recessed flathead tapping screws
3.5 × 20

	Specifications	Item Code / Item Name
Silver	Length 910 mm	250-017-962 FD30-TRM910SIL
	Length 1820 mm	250-017-131 FD30-TRM1820SIL
	Length 2000 mm	250-018-861 FD30-TRM2000SIL
	Length 2730 mm	250-017-966 FD30-TRM2730SIL
	Length 3000 mm	250-018-865 FD30-TRM3000SIL
	Length 3640 mm	250-017-970 FD30-TRM3640SIL
	Length 4000 mm	250-018-869 FD30-TRM4000SIL
Amber	Length 910 mm	250-017-963 FD30-TRM910UM
	Length 1820 mm	250-017-132 FD30-TRM1820UM
	Length 2000 mm	250-018-862 FD30-TRM2000UM
	Length 2730 mm	250-017-967 FD30-TRM2730UM
	Length 3000 mm	250-018-866 FD30-TRM3000UM
	Length 3640 mm	250-017-971 FD30-TRM3640UM
	Length 4000 mm	250-018-870 FD30-TRM4000UM
White	Length 910 mm	250-025-152 FD30-TRM910WT
	Length 1820 mm	250-025-154 FD30-TRM1820WT
	Length 2000 mm	250-025-166 FD30-TRM2000WT
	Length 2730 mm	250-025-156 FD30-TRM2730WT
	Length 3000 mm	250-025-168 FD30-TRM3000WT
	Length 3640 mm	250-025-158 FD30-TRM3640WT
	Length 4000 mm	250-025-170 FD30-TRM4000WT

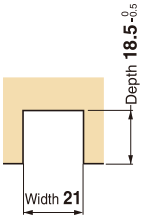
Upper Track (For Recessed Mount)





Hole Pitch: Approx. 300 mm
Pitch End: Approx. 30 mm



This recessed mount upper track has a rail width of 20 mm.

- Material
  Aluminium Alloy
- Finish
  Silver:
  Silver Anodized
  + Coating/Clear
  Amber:
  Amber Anodized
  + Coating/Clear
  White:
  Anodized
  + Coating/White

Recommended Screws
Cross-recessed flathead tapping screws
3.5 × 20

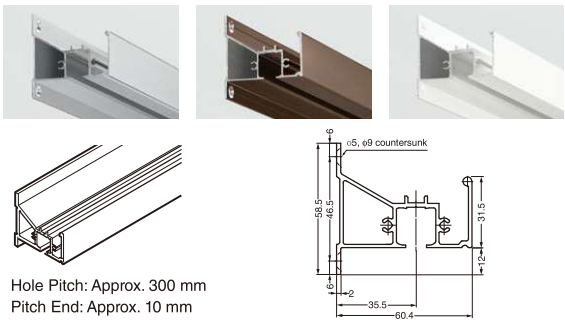
	Specifications	Item Code / Item Name
Silver	Length 910 mm	250-017-964 FD30-TRH910SIL
	Length 1820 mm	250-017-133 FD30-TRH1820SIL
	Length 2000 mm	250-018-863 FD30-TRH2000SIL
	Length 2730 mm	250-017-968 FD30-TRH2730SIL
	Length 3000 mm	250-018-867 FD30-TRH3000SIL
	Length 3640 mm	250-017-972 FD30-TRH3640SIL
	Length 4000 mm	250-018-871 FD30-TRH4000SIL
Amber	Length 910 mm	250-017-965 FD30-TRH910UM
	Length 1820 mm	250-017-134 FD30-TRH1820UM
	Length 2000 mm	250-018-864 FD30-TRH2000UM
	Length 2730 mm	250-017-969 FD30-TRH2730UM
	Length 3000 mm	250-018-868 FD30-TRH3000UM
	Length 3640 mm	250-017-973 FD30-TRH3640UM
	Length 4000 mm	250-018-872 FD30-TRH4000UM
White	Length 910 mm	250-025-153 FD30-TRH910WT
	Length 1820 mm	250-025-155 FD30-TRH1820WT
	Length 2000 mm	250-025-167 FD30-TRH2000WT
	Length 2730 mm	250-025-157 FD30-TRH2730WT
	Length 3000 mm	250-025-169 FD30-TRH3000WT
	Length 3640 mm	250-025-159 FD30-TRH3640WT
	Length 4000 mm	250-025-171 FD30-TRH4000WT

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UPPER TRACK FOR OUTSET MODEL

FD25SP (P.624)

Name	Dimensions	Mounting Example	Specifications			Item Code / Item Name
Upper Track (outset)			• Material: Aluminium alloy • Finish: Silver anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 4 × 40	Silver	Length 2100 mm	250-022-269 FD30-TRA2100SL
					Length 2730 mm	250-022-271 FD30-TRA2730SL
			• Material: Aluminium alloy • Finish: Amber Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 4 × 40 (Copper Antique Plating)	Amber	Length 2100 mm	250-022-270 FD30-TRA2100UM
					Length 2730 mm	250-022-272 FD30-TRA2730UM
			• Material: Aluminium alloy • Finish: Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 4 × 40 (Countersunk Head: Paint/White)	White	Length 2100 mm	250-025-172 FD30-TRA2100WT
					Length 2730 mm	250-025-173 FD30-TRA2730WT



Hole Pitch: Approx. 300 mm
Pitch End: Approx. 10 mm

An end plate (P.638) and cleaner for upper track (P.639) are also available.

UPPER TRACK FOR POCKET DOOR MODEL

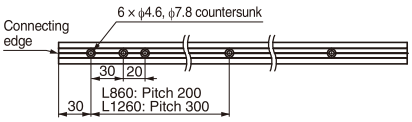
FD25SP (P.630)

Name	Dimensions	Specifications			Item Code / Item Name
Surface-mount Upper Track		• Material luminium Alloy • Finish Silver Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 3.5 × 25 (Chromate treated trivalent)	Silver	Length 860 mm	250-035-283 FD30-35EV-TRMP860-SL
				Length 1260 mm	250-035-284 FD30-35EV-TRMP1260-SL
				Length 1860 mm	250-035-285 FD30-35EV-TRMP1860-SL
				Length 2760 mm	250-035-286 FD30-35EV-TRMP2760-SL
				Length 3960 mm	250-035-287 FD30-35EV-TRMP3960-SL
		• Material Aluminium Alloy • Finish Amber Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 3.5 × 25 (Copper Antique Plating)	Amber	Length 860 mm	250-035-288 FD30-35EV-TRMP860-UM
				Length 1260 mm	250-035-289 FD30-35EV-TRMP1260-UM
				Length 1860 mm	250-035-290 FD30-35EV-TRMP1860-UM
				Length 2760 mm	250-035-291 FD30-35EV-TRMP2760-UM
				Length 3960 mm	250-035-292 FD30-35EV-TRMP3960-UM
		• Material Aluminium Alloy • Finish Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 3.5 × 25 (Countersunk Head: Paint/White)	White	Length 860 mm	250-035-293 FD30-35EV-TRMP860-WT
				Length 1260 mm	250-035-294 FD30-35EV-TRMP1260-WT
				Length 1860 mm	250-035-295 FD30-35EV-TRMP1860-WT
				Length 2760 mm	250-035-296 FD30-35EV-TRMP2760-WT
				Length 3960 mm	250-035-297 FD30-35EV-TRMP3960-WT
Recessed-mount Upper Track		• Material: Aluminium alloy • Finish: Silver anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 3.5 × 25	Silver	Length 860 mm	250-043-802 FD30-35EV-TRHP860-SL
				Length 1260 mm	250-043-803 FD30-35EV-TRHP1260-SL
				Length 1860 mm	250-043-804 FD30-35EV-TRHP1860-SL
				Length 2760 mm	250-043-805 FD30-35EV-TRHP2760-SL
				Length 3960 mm	250-043-806 FD30-35EV-TRHP3960-SL
		• Material: Aluminium alloy • Finish: Amber Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 3.5 × 25 (Copper Antique Plating)	Amber	Length 860 mm	250-043-807 FD30-35EV-TRHP860-UM
				Length 1260 mm	250-043-808 FD30-35EV-TRHP1260-UM
				Length 1860 mm	250-043-809 FD30-35EV-TRHP1860-UM
				Length 2760 mm	250-043-810 FD30-35EV-TRHP2760-UM
				Length 3960 mm	250-043-811 FD30-35EV-TRHP3960-UM
		• Material: Aluminium alloy • Finish: Anodized + White Baked Paint Included screws: Cross-recessed flathead tapping screws 3.5 × 25 (Countersunk Head: Paint/White)	White	Length 860 mm	250-043-812 FD30-35EV-TRHP860-WT
				Length 1260 mm	250-043-813 FD30-35EV-TRHP1260-WT
				Length 1860 mm	250-043-814 FD30-35EV-TRHP1860-WT
				Length 2760 mm	250-043-815 FD30-35EV-TRHP2760-WT
				Length 3960 mm	250-043-816 FD30-35EV-TRHP3960-WT

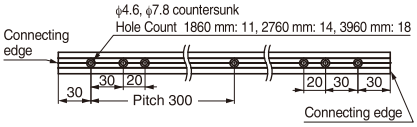


Dimensions

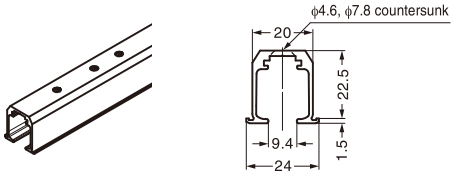
• Track Length 860 mm, 1260 mm



• Track Length 1860 mm, 2760 mm, 3960 mm







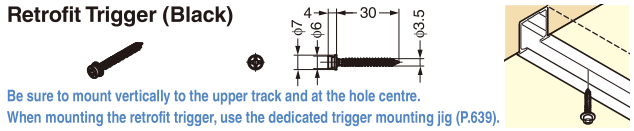
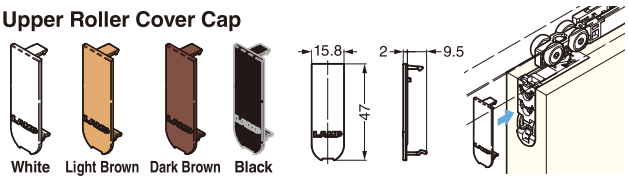
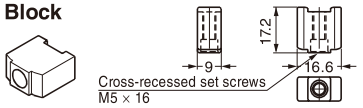
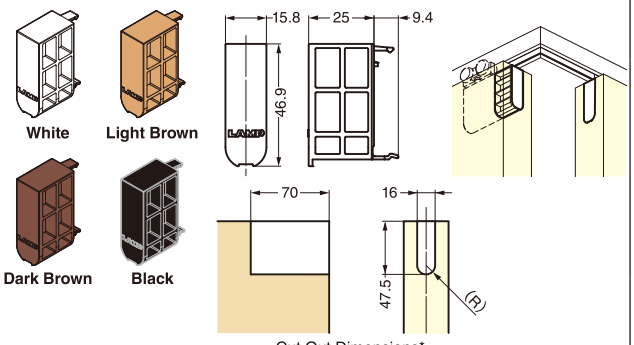
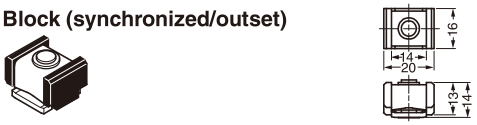
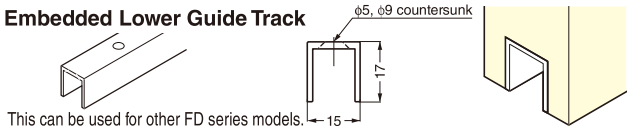
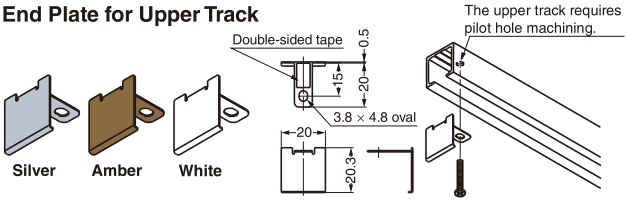
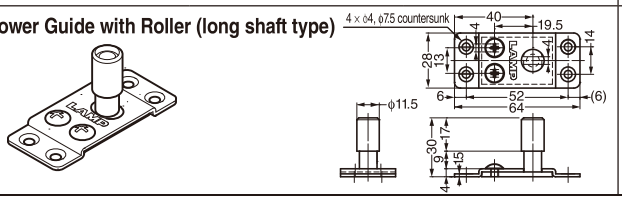
* The dimensions are the same as the surface-mount type.

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SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

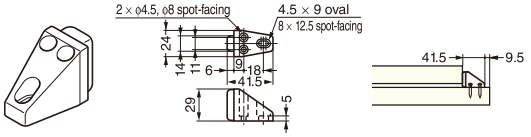
OPTIONAL PARTS

FD25SP (P.618~P.623)

Name	Dimensions / Mounting Example	Specifications		Item Code / Item Name
Retrofit Trigger (Black)		**Trigger used when retrofitting the Two-Way Soft Closer.** **Track hole machining ϕ4 holes.** • Material: Steel • Finish: Black chromate (trivalent)		250-052-630 FD25SP-30-TRG
Be sure to mount vertically to the upper track and at the hole centre. When mounting the retrofit trigger, use the dedicated trigger mounting jig (P.639).				
Upper Roller Cover Cap	 White Light Brown Dark Brown Black	**Cover cap for upper roller.** • Material: Polypropylene (PP) • Colour: White, light brown, dark brown, black	White	250-052-632 FDSP-WRH-CP-WT
			Light Brown	250-052-633 FDSP-WRH-CP-LBR
			Dark Brown	250-052-634 FDSP-WRH-CP-DBR
			Black	250-056-482 FDSP-WRH-CP-BL
Stopper Block	 Cross-recessed set screws M5 × 16	**Door stopper assembled into upper track. This stops the upper roller at a suitable position and prevents the door from coming off the lower guide.** • Material: Polyacetal (POM) • Colour: Dark Brown		250-017-139 FD30-HSB
Spacer Cap (for 90° Convex Corners)	 White Light Brown Dark Brown Black Cut Out Dimensions*	**This spacer creates distance between the door end and the roller, enabling the door to fit in a 90° convex corner.** Caution: Be sure to use with the Soft Closer. • Material: Polypropylene (PP) • Colour: White, light brown, dark brown, black	White	250-056-038 FDSP-WRH-SCP25-WT
*In combination with Upper Roller FD25SP-WRH			Light Brown	250-056-039 FDSP-WRH-SCP25-LBR
			Dark Brown	250-056-040 FDSP-WRH-SCP25-DBR
			Black	250-056-041 FDSP-WRH-SCP25-BL
Bumper Block (synchronized/outset)		**A bumper used for outset and synchronized sliding door specifications.** • Main material: Steel/Ethylene propylene rubber (EPDM) • Finish: Chromate/Black		250-022-265 FD30-HBB
Embedded Lower Guide Track	 This can be used for other FD series models.	**Embedded lower guide rail.** • Material: Aluminium alloy • Finish: Silver anodized + coating/Clear	Length 1000 mm	250-021-996 FD30-HBRT1000SIL
			Length 1500 mm	250-019-971 FD30-HBRT1500SIL
End Plate for Upper Track	 Silver Amber White Double-sided tape 3.8 × 4.8 oval The upper track requires pilot hole machining.	**A cover to conceal the end of the FD25SP Upper Track (P.633~P.634).** **Also used to hide the machined end of the upper frame groove in recessed mounting.** Caution: Cannot be used as a stopper for the upper track end. • Material: Steel • Finish: Baked acrylic finish Included screws: Cross-recessed panhead tapping screws 3 × 20	Silver	250-029-710 FD30-TREP-SL
			Amber	250-029-711 FD30-TREP-UM
			White	250-029-712 FD30-TREP-WT
Lower Guide with Roller (long shaft type)	 4 × ϕ4, ϕ7.5 countersunk	**Use when space under the door is required.** • Material: Stainless Steel/ Polyacetal (POM) • Finish: Polished Included screws: Cross-recessed flathead tapping screws 3.5 × 30 (stainless steel), 4 pcs		250-024-547 FD30-HBGH

OTHER OPTION

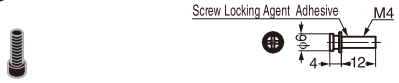
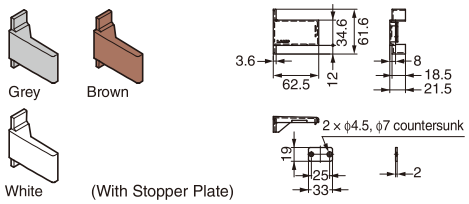
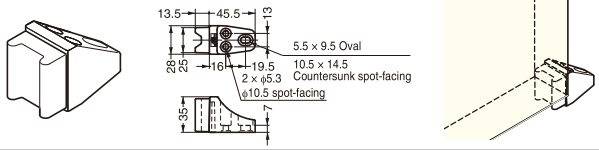
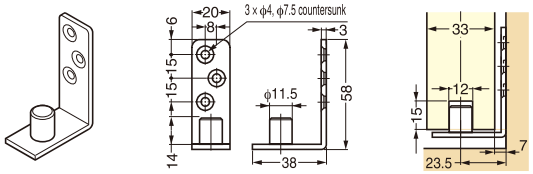
FD25SP (P.618~P.623)

Name	Dimensions / Mounting Example	Specifications	Item Code / Item Name
Stopper for sliding doors (for door mounting)	 2 × ϕ4.5, ϕ8 spot-facing 4.5 × 9 oval ϕ8 × 12.5 spot-facing	**A stopper for mounting on sliding doors.** • Material: Polyamide (PA)/Rubber • Colour: Light Brown Included screws: Cross-recessed binding head tapping screws 3.5 × 25, 3 pcs	250-017-150 FD30-HTK

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

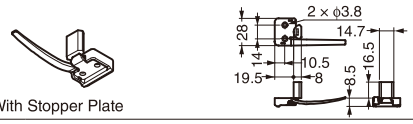
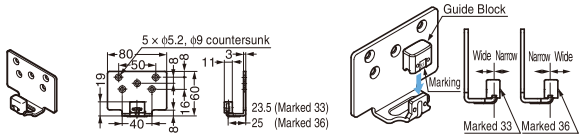
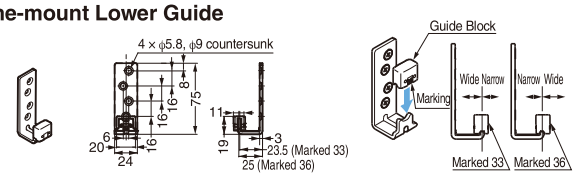
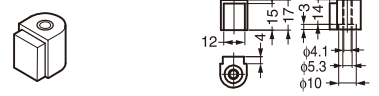
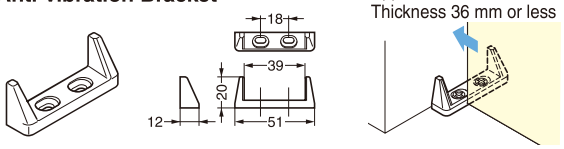
PARTS FOR OUTSET MODEL

FD25SP (P.624)

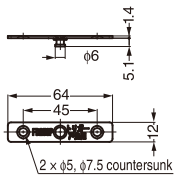
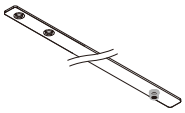
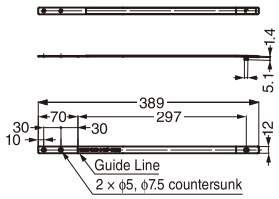
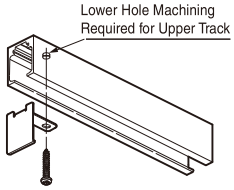
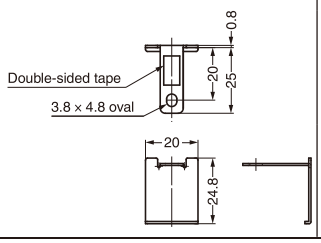
Name / Dimensions / Mounting Example	Specifications		Item Code / Item Name
Trigger 	• Material: Steel • Finish: Black chromate (trivalent) Insert 2 pieces, with M4 nut		250-054-917 FD25SP-TRGA
Side Cover 	Cover for outset upper track • Material: Steel/ABS Resin • Finish/color Chromate/ Grey, Brown, White Included screws: Countersunk S Tight Screw with Cross Hole 4 × 25 (head diameter φ6) 4	Grey (1 pc. each for left and right)	250-022-273 FD30-HASC-GR
		Brown (1 pc. each for left and right)	250-022-449 FD30-HASC-BR
		White (1 pc. each for left and right)	250-025-640 FD30-HASC-WT
Floor-mount Door Stopper 	Prevents the door from hitting the frame. • Material: Zinc alloy/Rubber • Finish: Silver coating/Black Included screws: Cross-recessed binding head tapping screws 4 × 30, 3 pcs		250-018-497 FD30-HTKY
Options **Wall-mount Lower Guide (with roller)** 	This wall-mount guide should be used when the floor-mount lower guide cannot be installed. **Caution: For wall-mounting only.** **Use frames or stoppers to keep the door in the track.** • Material: Steel/Polyacetal (POM) • Finish: Coloured chromate/Light Brown Included screws: Cross-recessed flathead tapping screws 3.5 × 30, 3 pcs		250-019-968 FD30-HBGK

PARTS FOR SYNCHRO MODEL

FD25SP (P.626~P.629)

Name / Dimensions / Mounting Example	Specifications	Item Code / Item Name
Lower Guide Receiver 	Mounted on the bottom of the door. • Material: Stainless Steel(SUS304)/Polyacetal (POM) • Finish: Polished/Grey 1 Set: 1 pc. each for left and right	250-022-261 FD30-HRGU
Door-mount Lower Guide 	Mounted on the 2nd/3rd door of synchronised doors. Accommodate two door thicknesses by flipping the block 180 degrees to change its orientation. Door Thickness 30 to 34 mm: Marked 33 Door Thickness 35 to 38 mm: Marked 36 • Material: Stainless Steel(SUS304)/Polyacetal (POM) • Finish: Polished/Grey	250-022-262 FD30-HRDG
Frame-mount Lower Guide 	A frame-mount lower guide for 2nd/3rd door of synchronised doors. Accommodate two door thicknesses by flipping the block 180 degrees to change its orientation. Door Thickness 30 to 34 mm: Marked 33 Door Thickness 35 to 38 mm: Marked 36 • Material: Stainless Steel(SUS304)/Polyacetal (POM) • Finish: Polished/Grey	250-022-263 FD30-HBGF
Lower Guide Block 	A lower guide block for synchronised door models. • Main material: Ethylene propylene rubber (EPDM) • Color: Black	250-022-264 FD30-HRDB
Recessed Lower Guide Track (1000 mm) 	This guide track is used to be recessed in the floor. • Main Material: ABS Resin • Color: Black	250-022-266 FD30-HBDR1000
Options **Anti-vibration Bracket** 	Prevents the vibration of the door's leading edge. • Material: Polyamide (PA) • Colour: Light Brown Included screws: Cross-recessed flathead tapping screws 3.5 × 25, 2 pcs	250-017-157 FD30-HTF

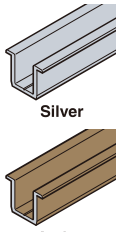
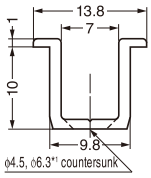
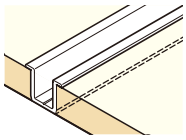
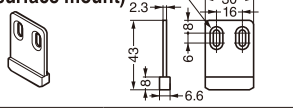
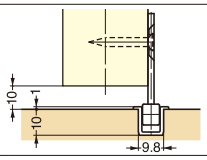
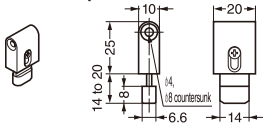
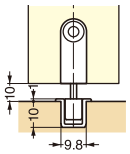
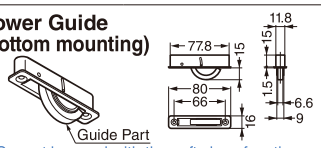
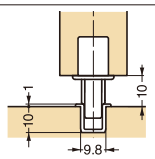
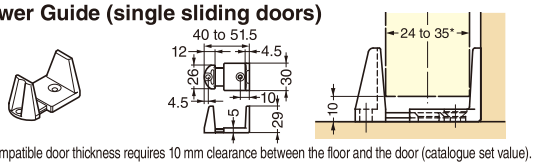
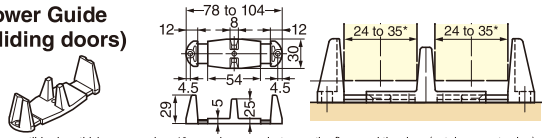
PARTS FOR POCKET DOOR MODEL

	Name	Dimensions	Specifications		Item Code / Item Name
FD25SP (P.630)	**Trigger (for door leading edge)**	 	• Material: Steel • Finish: Coloured chromate (trivalent), Black chromate (trivalent) Included screws: Cross-recessed flathead tapping screws 4 × 30		**250-054-915** **FD25SP-TRGPF**
	Trigger (for door trailing edge)	 	• Material: Steel • Finish: Coloured chromate (trivalent), Black chromate (trivalent) Included screws: Cross-recessed flathead tapping screws 4 × 30		**250-054-916** **FD25SP-TRGPB**
	Options **End Plate for Upper Track**   	Covers the edge of the upper tracks (surface-mount/recessed-mount). • Material: Steel (SECC) • Finish: Baked acrylic finish Included screws: Cross-recessed panhead tapping screws 3.5 × 20 **Caution: This is only for the pocket door model of the FD25SP.**	Silver	**250-044-999** **FD30-35EV-TRPEP-SL**
				Amber	**250-045-000** **FD30-35EV-TRPEP-UM**
				White	**250-045-001** **FD30-35EV-TRPEP-WT**

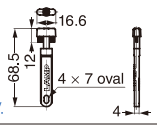
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LOWER GUIDE PARTS

The guide pin floats up from the floor only when the sliding door passes.
Anti-vibration magnetic lower guides (FD30-MG) (P.669) are also available.

	Name	Dimensions	Mounting Example	Specifications			Item Code / Item Name
FD25SP (P.618~P.631)	Lower Guide Track	**Lower Track (for recessed mount)**	 Silver / Amber   Hole Pitch: Approx. 300 mm Pitch End: Approx. 30 mm For part numbers marked with *, the *1 dimension in the figure above will change from 6.8 mm to 6.3 mm as soon as stock runs out.	**Recessed lower track mounted into the floor.** • Material Aluminium Alloy • Finish Silver: Silver Anodized + Coating/Clear Amber: Amber Anodized + Coating/Clear White: Anodized + Coating/White Included Screws Cross-recessed flathead tapping screws 3.5 × 25 (head diameter ϕ6)	Silver	Length 910 mm	250-018-086 *FD30-HBR910SIL
						Length 1820 mm	250-017-148 FD30-HBR1820SIL
						Length 2730 mm	250-018-088 FD30-HBR2730SIL
						Length 3640 mm	250-018-090 FD30-HBR3640SIL
					Amber	Length 910 mm	250-018-087 *FD30-HBR910UM
						Length 1820 mm	250-017-149 *FD30-HBR1820UM
						Length 2730 mm	250-018-089 *FD30-HBR2730UM
						Length 3640 mm	250-018-091 *FD30-HBR3640UM
	Compatible Lower Guide	**Lower Guide (for surface mount)**	 	**Lower guide surface-mounted under the door.** • Material: Steel/Polyacetal (POM) • Colour: Dark Brown Included screws: Cross-recessed flathead tapping screws 3.5 × 20 2 pcs			250-017-152 FD30-HGM
		Lower Guide (end surface mounting)	 	**Lower guide mounted into the bottom of the door.** • Material: Polyamide (PA)/ Polyacetal (POM) • Colour: Light Brown Included screws: Cross-recessed flathead tapping screws 3.5 × 35 1 pc			250-017-153 FD30-HGK
		Lower Guide (bottom mounting) Guide Part *Cannot be used with the soft close function.	 	**Lower guide mounted into the bottom of the door. The spring structure of the guide aids with uneven floor surfaces.** • Material: Polyacetal (POM) • Colour: Light Brown Included screws: Cross-recessed flathead tapping screws 3.5 × 30 2 pcs			250-017-154 FD30-HGR
		Lower Guide (single sliding doors) *Compatible door thickness requires 10 mm clearance between the floor and the door (catalogue set value).		**Lower guide for single sliding doors.** • Material: Polyamide (PA) • Colour: Light Brown Included Screws Cross-recessed panhead tapping screws 3.5 × 30 1 pc Cross-recessed flathead tapping screws 3.5 × 30 1 pc			250-017-155 FD30-HGS
		Lower Guide (sliding doors) *Compatible door thickness requires 10 mm clearance between the floor and the door (catalogue set value).		**Lower guide for sliding doors.** • Material: Polyamide (PA) • Colour: Light Brown Included Screws Cross-recessed panhead tapping screws 3.5 × 30 3 pcs			250-017-156 FD30-HGW

JIG TOOLS

	Name	Dimensions	Specifications	Item Code / Item Name
FD25SP (P.618~P.631)	**Jig** Read the precautions for installation (P.763) for information on using this product.	 –	**A jig set to mount the FD25SP retrofit trigger (P.636) on the track.** • Material: Polyacetal (POM) • Colour: Orange	250-024-555 FD25SP-30-TRJ (Old Item Name: FD30-TRJ)
	Spanner	 –	**Use to tighten the hex heads of the bounce prevention nuts in the upper roller, Two-Way Soft Closer and Single Soft Closer.** • Material: Steel • Finish: Coloured chromate (trivalent)	250-052-629 FDSP-SP
	Cleaner for Upper Track *This optional part is common for FD30, FD30EX, and FD35EV.	 	**A brush for cleaning debris from the FD25SP upper track (P.633), such as shavings left over after cutting.** • Material: Polypropylene (PP)/ Polyamide (PA) • Colour: Orange	250-025-992 FD30-TRC
	Machining Jig Tool for FD25SP/FD30/FD30EX	 –	**A machining jig tool for FD25SP/FD30/FD30EX recessed end mounting. Recessed machining using a router can be done easily. The use of methacrylic resin enables repeated use.** • Material: Methacrylic resin (PMMA) • Colour: Clear	250-024-567 FD30-WRH-N-TMP

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LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD27EV Two-Way Damper / Surface Mounted Roller NEW

Latest Info

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

- Supports doors 27kg max.
- Durable construction & smooth operation.
- Can be used in public facilities.

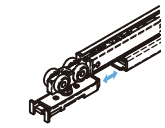
Passed Private 300K Cycle Test

Movement Features	Door Size (per door)	Adjustment
Two-Way Damper	Min. 22 mm / Max. 2,700 mm / MAX 27kg 480-1200 mm (Height: <2400 mm) 700-1200 mm (Height: 2401-2700 mm)	+2 mm −4 mm

1-Stage **Opens with a light touch.**

Self and soft closing length: 60 mm.

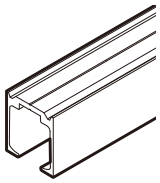
1-Stage **Damper also works in the opening direction.**



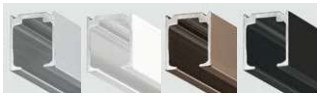
One-touch door hanging
(2) Two-Way Soft Closer



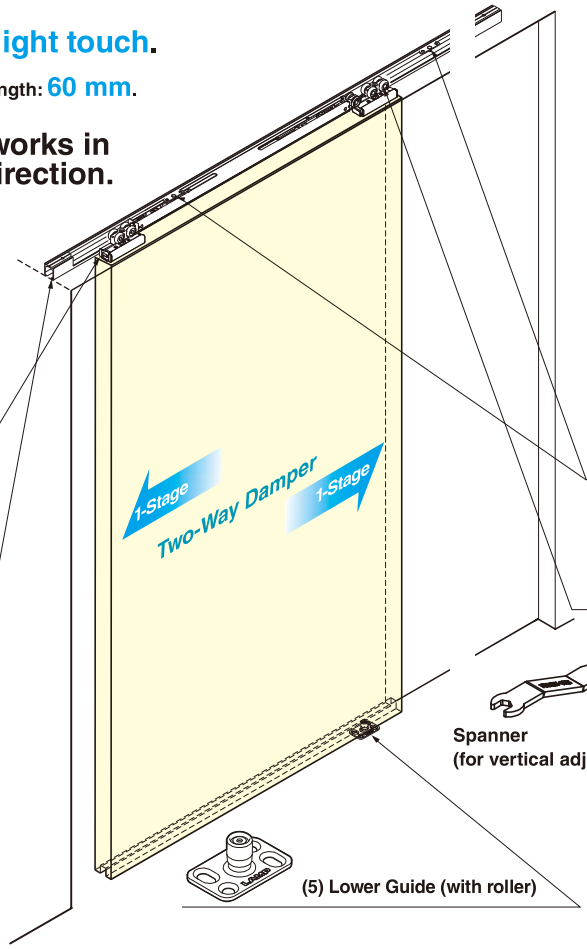
Trigger Mounting Jig (included with (2))



Compact design with a width of 20mm
(1) Upper Track



4 colours are available. See (P.643).



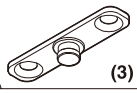
(5) Lower Guide (with roller)

INSTRUCTION

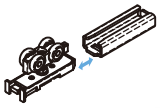
Precautions
- Be sure to read the Precautions (P.762).

Application Example





(3) Retrofit Trigger



One-touch door hanging
(4) Upper Roller



Spanner
(for vertical adjustment and door removal)

Pats details (P.642).

Parts List

Parts	Selection	Required					Recommended Option
	(1) Upper Track	(2) Two-Way Soft Closer*1	(3) Retrofit Trigger	(4) Upper Roller	(5) Lower Guide (with roller)	(6) Bumper Block	(7) Embedded Lower Guide Track
	Surface Mount / Recessed Mount						
Item Code Item Name		250-054-268 FD27EV-WRM-DSC	Included with (2)	250-048-914 FD35EV-WRM	250-029-718 FD50-BGR18	For details, see(P.642).	250-019-971 FD30-HBRT1500SIL
Single Sliding Door	1820 mm × 1 pc	1 pc	2 pcs	1 pc	1 pc	—	(1 pc)
Overlapping Sliding Doors	1820 mm × 2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	—	(2 pcs)
Opposite Opening Sliding Doors	3640 mm × 1 pc	2 pcs	4 pcs	2 pcs	2 pcs	1 pc	(2 pcs)

Parts Set
Item Code: 250-055-190
Item Name: FD27EVDHCMP
×2

*1 Includes (3) Retrofit Trigger, Trigger Mounting Jig and Spanner. Also available for individual purchase. (P.642)

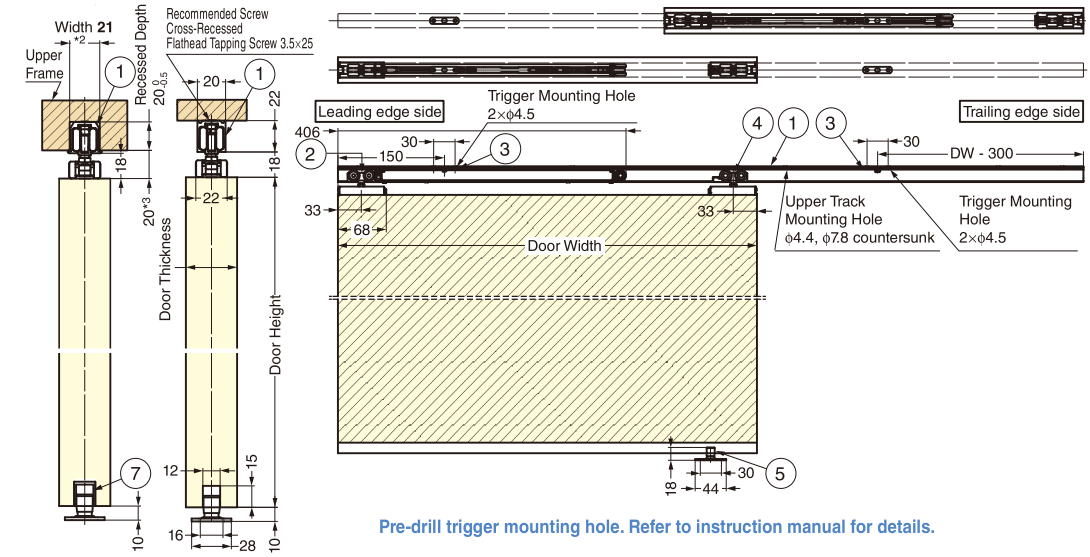
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SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Installation Example

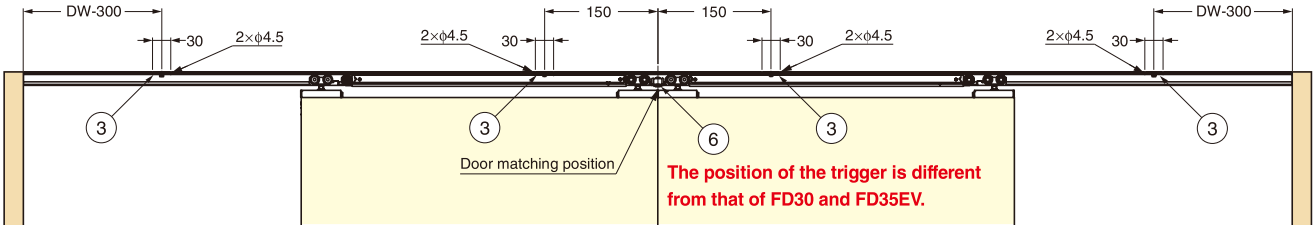
*2 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*3 The gap between the upper track and the door can be adjusted within a range of -4 mm to +2 mm.

Recessed Mount | Surface Mount

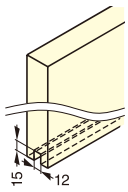


Pre-drill trigger mounting hole. Refer to instruction manual for details.

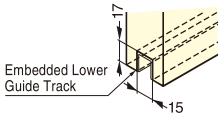
When Using with Bumper Blocks opposite opening sliding doors



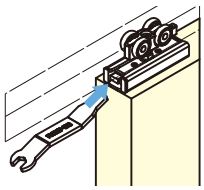
Cut Out Dimensions



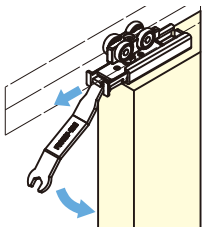
When the embedded lower guide track ⑦ shown in 1 (P.636) is used



■How to Remove the Door

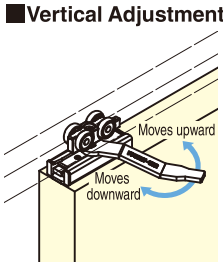


Insert the backside of the spanner or a slotted screwdriver (or similar tool) under the lever inside of the upper roller.



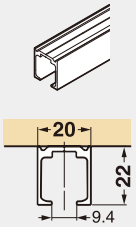
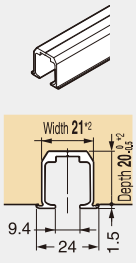
Lift the lever by pushing down on the spanner (or other tool) to detach the roller.

■Vertical Adjustment of Door



Use the spanner to rotate the vertical adjustment nut on the upper roller to adjust the position of the door upwards or downwards.

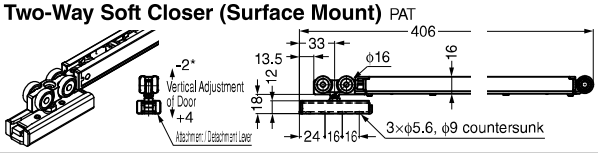
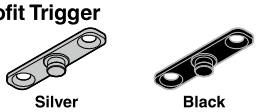
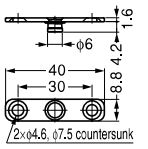
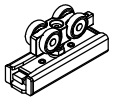
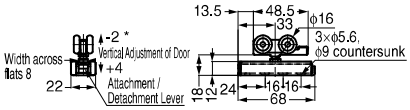
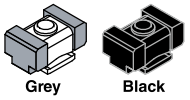
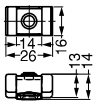
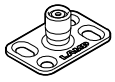
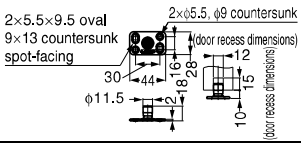
Type of Upper Track Recommended screws: Cross-recessed flathead tapping screws 3.5 × 25

Upper Track	Length mm	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name	Black Item Code Item Name
Surface Mount 	1820	250-033-816 FD35EV-TRM1820-SL	250-033-819 FD35EV-TRM1820-UM	250-033-822 FD35EV-TRM1820-WT	250-048-948 FD35EV-TRM1820-BL
	2000	250-035-929 FD35EV-TRM2000-SL	250-035-932 FD35EV-TRM2000-UM	–	–
	2730	250-033-817 FD35EV-TRM2730-SL	250-033-820 FD35EV-TRM2730-UM	250-033-823 FD35EV-TRM2730-WT	–
	3000	250-035-930 FD35EV-TRM3000-SL	250-035-933 FD35EV-TRM3000-UM	–	–
	3640	250-033-818 FD35EV-TRM3640-SL	250-033-821 FD35EV-TRM3640-UM	250-033-824 FD35EV-TRM3640-WT	–
	4000	250-035-931 FD35EV-TRM4000-SL	250-035-934 FD35EV-TRM4000-UM	–	250-048-949 FD35EV-TRM4000-BL
Recessed Mount 	1820	250-033-834 FD35EV-TRH1820-SL	250-033-837 FD35EV-TRH1820-UM	250-033-840 FD35EV-TRH1820-WT	250-048-946 FD35EV-TRH1820-BL
	2000	250-035-941 FD35EV-TRH2000-SL	250-035-944 FD35EV-TRH2000-UM	–	–
	2730	250-033-835 FD35EV-TRH2730-SL	250-033-838 FD35EV-TRH2730-UM	250-033-841 FD35EV-TRH2730-WT	–
	3000	250-035-942 FD35EV-TRH3000-SL	250-035-945 FD35EV-TRH3000-UM	–	–
	3640	250-033-836 FD35EV-TRH3640-SL	250-033-839 FD35EV-TRH3640-UM	250-033-842 FD35EV-TRH3640-WT	–
	4000	250-035-943 FD35EV-TRH4000-SL	250-035-946 FD35EV-TRH4000-UM	–	250-048-947 FD35EV-TRH4000-BL

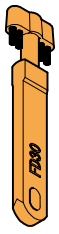
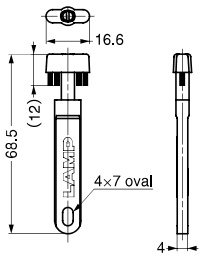
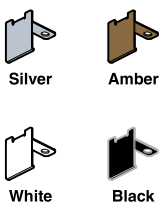
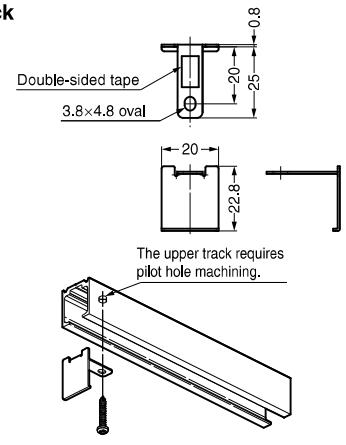
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

PARTS TABLE

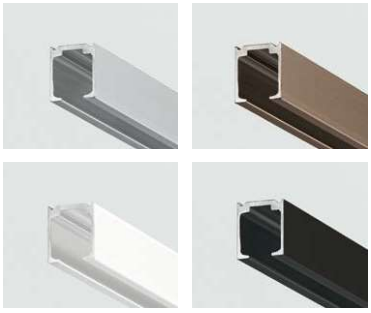
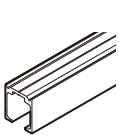
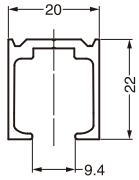
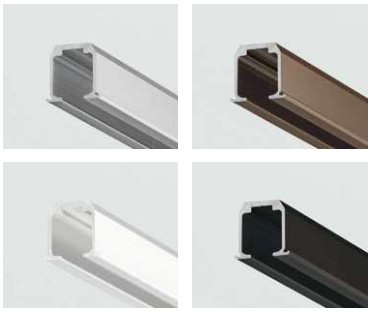
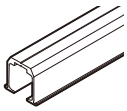
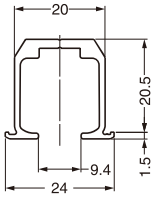
	Name / Dimensions	Specifications		Item Code / Item Name
FD27EV	**Two-Way Soft Closer (Surface Mount)** PAT 	**A Two-Way Soft Closer that slowly and safely opens and closes on both sides of the door. The door can be adjusted vertically.** • Main material: Steel/Polyacetal (POM) • Finish: Coloured chromate /Grey Included screws: Cross-recessed countersunk tapping screws 4×40, 3 pcs		**250-054-268** **FD27EV-WRM-DSC**
	Spanner  —	**This is a tool for upper roller and Two-Way soft closer. This tool is used for removal of door and adjustment of vertical position. 1 pc included with Two-Way soft closer.** • Material: Steel • Finish: Black chromate (trivalent)		**250-048-915** **FD35EV-WRM-SP8**
	Retrofit Trigger  Included with Two-Way Soft Closer, and also available for individual purchase. 	**Trigger for operating the Two-Way Soft Closer. 2 pcs included.** • Material: Steel • Finishing silver: coloured chromate (trivalent) Black: black chromate (trivalent) Included screw: Cross-recessed countersunk tapping screws 4x30, 2pcs Silver: (size: 6, chromate, trivalent) Black: (size: 6, black chromate, trivalent)	Silver	**250-033-814** **FD35EV-TRG**
			Black	**250-052-701** **FD35EV-TRG-BL**
	Trigger Mounting Jig  Included with Two-Way Soft Closer, and also available for individual purchase. —	**A jig used to mount the retrofit trigger on the track. 1 pc included with Two-Way Soft Closer.** • Material: Polyacetal (POM) • Colour: Red		**250-033-815** **FD35EV-TRJ**
	Upper Roller  	**A surface mounted roller with vertical adjustment.** • Material: Zinc alloy/Polyacetal (POM) • Finish: Coloured chromate/Grey Included screws: Cross-recessed countersunk tapping screws 4×40, 3 pcs		**250-048-914** **FD35EV-WRM**
	Bumper Block  	**Bumper used for Two-Way Damper** • Main material: Steel/Ethylene propylene rubber (EPDM) • Finish: Coloured Chromate finish (trivalent) / Grey, Black	Grey	**250-034-114** **FD35EV-HBB-GR**
			Black	**250-050-835** **FD35EV-HBB-BL**
	Lower Guide (with roller)  	**Lower guide with roller** • Material: Stainless Steel/Polyacetal (POM) • Colour: Base material / Natural Included screws: Cross-recessed countersunk tapping screws 4×20 (stainless steel), 4 pcs		**250-029-718** **FD50-BGR18**

OPTIONS

	Name / Dimensions	Specifications		Item Code / Item Name
FD27EV	**Cleaner for Upper Track**  	**A brush for cleaning shavings left over after cutting.** • Material: Polypropylene (PP)/Polyamide (PA) • Colour: Orange		**250-025-992** **FD30-TRC**
	End Plate for Upper Track  	**A cover to conceal the end of the Upper Track.** • Material: Steel (SECC) • Finish: Baked acrylic finish Included screws: Cross-recessed panhead tapping screws 3.5×20	Silver	**250-036-278** **FD35EV-TREP-SL**
			Amber	**250-036-279** **FD35EV-TREP-UM**
			White	**250-036-280** **FD35EV-TREP-WT**
			Black	**250-048-960** **FD35EV-TREP-BL**

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

UPPER TRACK

	Name	Dimensions	Specifications			Item Code / Item Name
FD27EV	**Upper Track (Surface Mount)**	  	**A surface mount upper track with 20mm rail width.** • Material Aluminium Alloy • Finish Silver: Silver Anodized + Coating/Clear Amber: Amber Anodized + Coating/Clear White: Silver Anodized +White Electrodeposition Coating Black: Black Anodized + Coating/Clear Recommended screws: Cross-recessed countersunk tapping screws 3.5×25	Silver	Length 1820mm	**250-033-816** **FD35EV-TRM1820-SL**
					Length 2000mm	**250-035-929** **FD35EV-TRM2000-SL**
					Length 2730mm	**250-033-817** **FD35EV-TRM2730-SL**
					Length 3000mm	**250-035-930** **FD35EV-TRM3000-SL**
					Length 3640mm	**250-033-818** **FD35EV-TRM3640-SL**
					Length 4000mm	**250-035-931** **FD35EV-TRM4000-SL**
				Amber	Length 1820mm	**250-033-819** **FD35EV-TRM1820-UM**
					Length 2000mm	**250-035-932** **FD35EV-TRM2000-UM**
					Length 2730mm	**250-033-820** **FD35EV-TRM2730-UM**
					Length 3000mm	**250-035-933** **FD35EV-TRM3000-UM**
					Length 3640mm	**250-033-821** **FD35EV-TRM3640-UM**
					Length 4000mm	**250-035-934** **FD35EV-TRM4000-UM**
				White	Length 1820mm	**250-033-822** **FD35EV-TRM1820-WT**
					Length 2730mm	**250-033-823** **FD35EV-TRM2730-WT**
					Length 3640mm	**250-033-824** **FD35EV-TRM3640-WT**
	Use a black retrofit trigger (P.642) for a black upper track on a single sliding door or opposite-opening sliding door applications. (2pcs/door)			Black	Length 1820mm	**250-048-948** **FD35EV-TRM1820-BL**
					Length 4000mm	**250-048-949** **FD35EV-TRM4000-BL**
	Upper Track (Recessed Mount)	  	**- Upper track for recessed mount.** **- 20 mm width.** • Material Aluminium Alloy • Finish Silver: Silver Anodized + Coating/Clear Amber: Amber Anodized + Coating/Clear White: Silver Anodized +White Electrodeposition Coating Black: Black Anodized + Coating/Clear Recommended screws: Cross-recessed countersunk tapping screws 3.5×25	Silver	Length 1820mm	**250-033-834** **FD35EV-TRH1820-SL**
					Length 2000mm	**250-035-941** **FD35EV-TRH2000-SL**
					Length 2730mm	**250-033-835** **FD35EV-TRH2730-SL**
					Length 3000mm	**250-035-942** **FD35EV-TRH3000-SL**
					Length 3640mm	**250-033-836** **FD35EV-TRH3640-SL**
					Length 4000mm	**250-035-943** **FD35EV-TRH4000-SL**
				Amber	Length 1820mm	**250-033-837** **FD35EV-TRH1820-UM**
					Length 2000mm	**250-035-944** **FD35EV-TRH2000-UM**
					Length 2730mm	**250-033-838** **FD35EV-TRH2730-UM**
					Length 3000mm	**250-035-945** **FD35EV-TRH3000-UM**
					Length 3640mm	**250-033-839** **FD35EV-TRH3640-UM**
					Length 4000mm	**250-035-946** **FD35EV-TRH4000-UM**
				White	Length 1820mm	**250-033-840** **FD35EV-TRH1820-WT**
					Length 2730mm	**250-033-841** **FD35EV-TRH2730-WT**
					Length 3640mm	**250-033-842** **FD35EV-TRH3640-WT**
	Use a black retrofit trigger (P.642) for a black upper track on a single sliding door or opposite-opening sliding door applications. (2pcs/door)			Black	Length 1820mm	**250-048-946** **FD35EV-TRH1820-BL**
					Length 4000mm	**250-048-947** **FD35EV-TRH4000-BL**

MOUNTING SCREW FOR UPPER TRACK

	Name	Specifications	Item Code / Item Name
FD27EV	**Cross-recessed countersunk tapping screws 3.5×25 (black)** **Set of 100 pieces**  ×100	• Material Steel • Finish Black chromate (trivalent)	**250-052-702** **FD35EV-TR-SC3525-BL**

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD30SP Two-way Damper / Recessed Upper Roller NEW

Latest Info

- Two-way soft-close model of FD30SP.
- Upgraded for easier installation.

Passed Private 300K Cycle Test

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	Min. 24mm, Max. 2400mm, 590-1000mm MAX 30kg 10 kg or more recommended	±3mm, ±2mm

2-Stage

Reliable soft closing from approx. 100mm

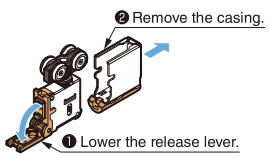
The Two-Way Damper requires less force to open the door.

1-Stage

Damper also works in the opening direction from around 50 mm on trailing edge side.

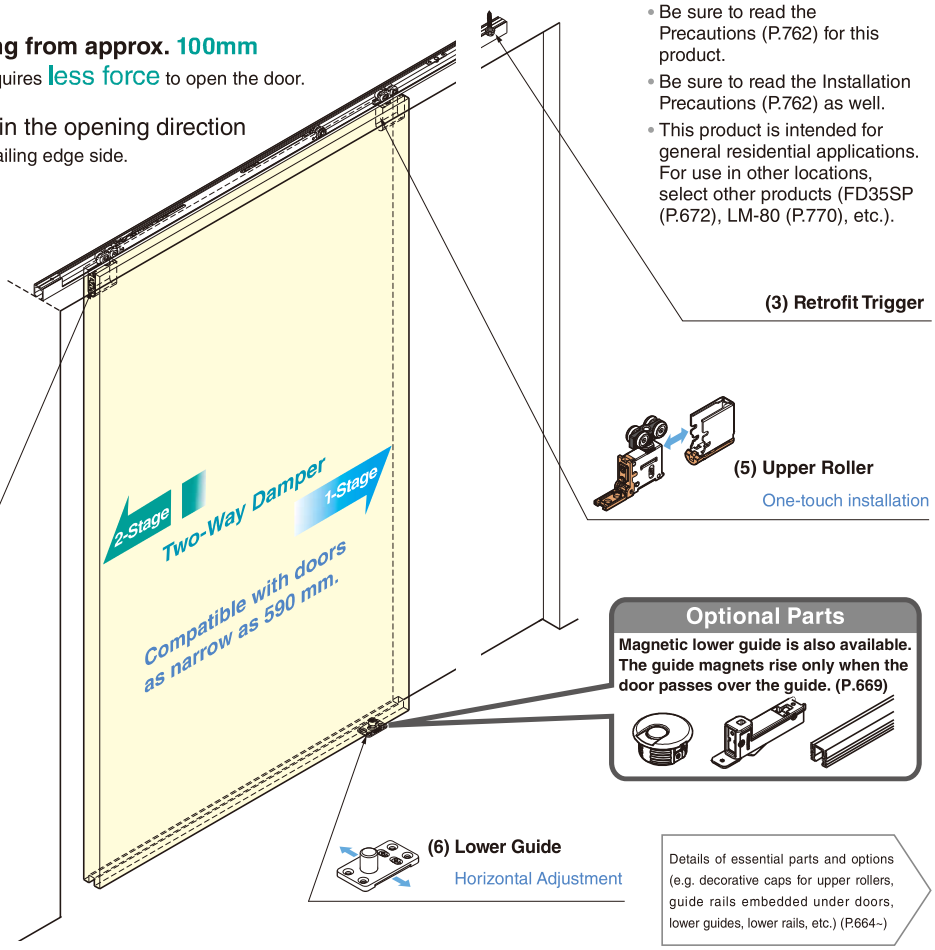
One-touch door hanging

(2) Two-Way Soft Closer



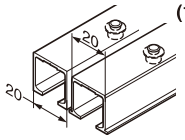
The large lever makes operation easy.

- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.



(1) Upper Track

20 mm compact design
Built-in damper



To shorten the upper track, cut the end without the trigger.

(3) Retrofit Trigger

(5) Upper Roller

One-touch installation

(6) Lower Guide

Horizontal Adjustment

INSTRUCTION

Remarks

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35SP (P.672), LM-80 (P.770), etc.).

Optional Parts

Magnetic lower guide is also available. The guide magnets rise only when the door passes over the guide. (P.669)

Details of essential parts and options (e.g. decorative caps for upper rollers, guide rails embedded under doors, lower guides, lower rails, etc.) (P.664~)

Standard part list

Please also refer to "Types of Upper track." (P.645)

Upgraded parts

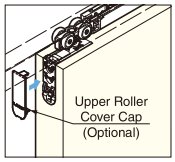
Parts	Selection		Required Parts						Required Parts
	(1) Upper Track Surface Mount	(1) Upper Track Recessed Mount	(2) Two-Way Soft Closer*	(3) Retrofit Trigger	(4) Jig for Trigger	(5) Upper Roller	(6) Lower Guide (with Roller)	(7) Stopper Block	
Item Code Item Name			250-055-992 FD30SP-WRH-DSC	Included	Included	250-055-996 FD30SP-WRH-N	250-017-151 FD30-HBG-LBR	250-017-139 FD30-HSB	
Single Sliding	1820 mm × 1 pc		1 pc	1 pc	1 pc	1 pc	1 pc	—	
				Parts Set	Item Code: 250-056-244 Item Name: FD30SPDHCP				
Overlapping Sliding	1820 mm × 2 pcs		2 pcs	2 pcs	2 pcs	2 pcs	2 pcs	—	
				Parts Set	Item Code: 250-056-244 Item Name: FD30SPDHCP × 2				
Opposite Opening Sliding	1820 mm × 2 pcs		2 pcs	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs	
				Parts Set	Item Code: 250-056-244 Item Name: FD30SPDHCP × 2				

*Includes Retrofit Trigger, Jig for Trigger, and spanner. Can also be purchased separately. (P.660)

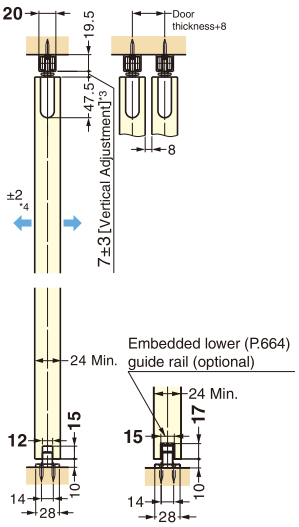
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

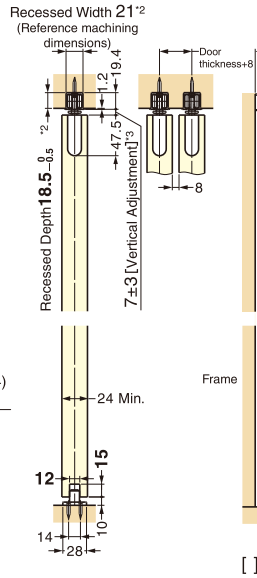
*2 If the surface is lined, account for the thickness of the material.
*3 The gap between the upper track and the door can be adjusted within a range of -3 mm to +3 mm.
*4 The horizontal position of the door can be adjusted within a range of -2mm or +2 mm from the end of the door.

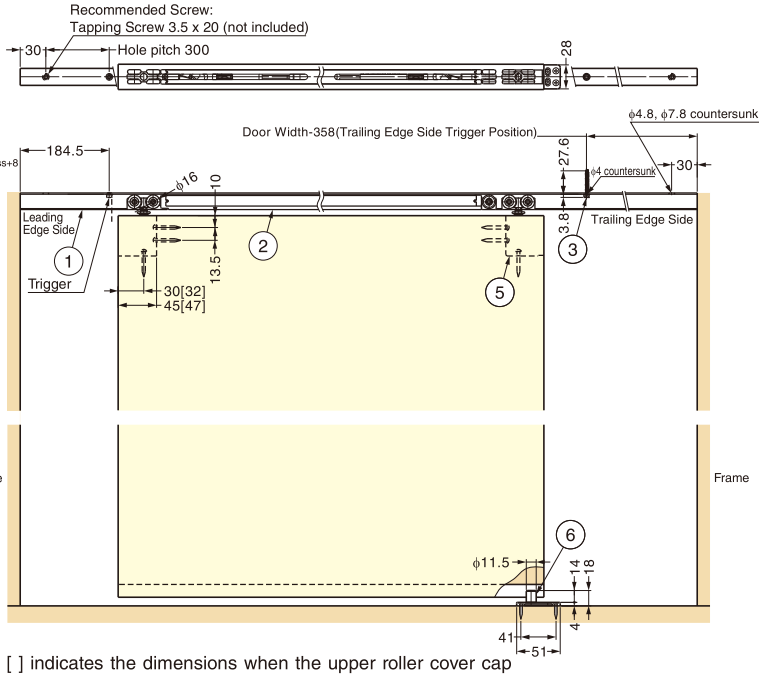


Surface Mount



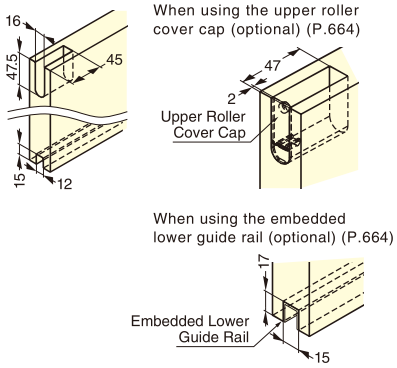
Recessed Mount



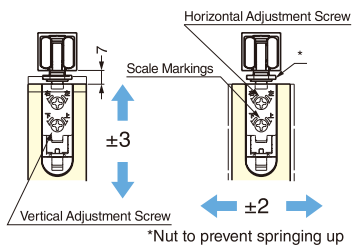


[ ] indicates the dimensions when the upper roller cover cap (optional) is attached. (P.664)

Cut Out Dimensions



Door Adjustment

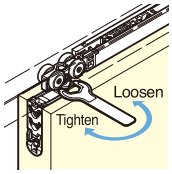


*Nut to prevent springing up

- Can be adjusted with one No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2) and (5)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track Recommended screws: Cross-recessed flat head tapping screws 3.5 x 20

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Surface Mount	1820mm	250-017-805 FD30-TRM1820SCSIL	250-017-806 FD30-TRM1820SCUM	250-025-146 FD30-TRM1820SCWT
	2000mm	250-018-873 FD30-TRM2000SCSIL	250-018-874 FD30-TRM2000SCUM	250-025-160 FD30-TRM2000SCWT
	2730mm	250-017-978 FD30-TRM2730SCSIL	250-017-979 FD30-TRM2730SCUM	250-025-148 FD30-TRM2730SCWT
	3000mm	250-018-877 FD30-TRM3000SCSIL	250-018-878 FD30-TRM3000SCUM	250-025-162 FD30-TRM3000SCWT
	3640mm	250-017-982 FD30-TRM3640SCSIL	250-017-983 FD30-TRM3640SCUM	250-025-150 FD30-TRM3640SCWT
	4000mm	250-018-881 FD30-TRM4000SCSIL	250-018-882 FD30-TRM4000SCUM	250-025-164 FD30-TRM4000SCWT
Recessed Mount	1820mm	250-017-807 FD30-TRH1820SCSIL	250-017-808 FD30-TRH1820SCUM	250-025-147 FD30-TRH1820SCWT
	2000mm	250-018-875 FD30-TRH2000SCSIL	250-018-876 FD30-TRH2000SCUM	250-025-161 FD30-TRH2000SCWT
	2730mm	250-017-980 FD30-TRH2730SCSIL	250-017-981 FD30-TRH2730SCUM	250-025-149 FD30-TRH2730SCWT
	3000mm	250-018-879 FD30-TRH3000SCSIL	250-018-880 FD30-TRH3000SCUM	250-025-163 FD30-TRH3000SCWT
	3640mm	250-017-984 FD30-TRH3640SCSIL	250-017-985 FD30-TRH3640SCUM	250-025-151 FD30-TRH3640SCWT
	4000mm	250-018-883 FD30-TRH4000SCSIL	250-018-884 FD30-TRH4000SCUM	250-025-165 FD30-TRH4000SCWT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD30SP One-way Damper / Recessed Upper Roller NEW

Latest Info

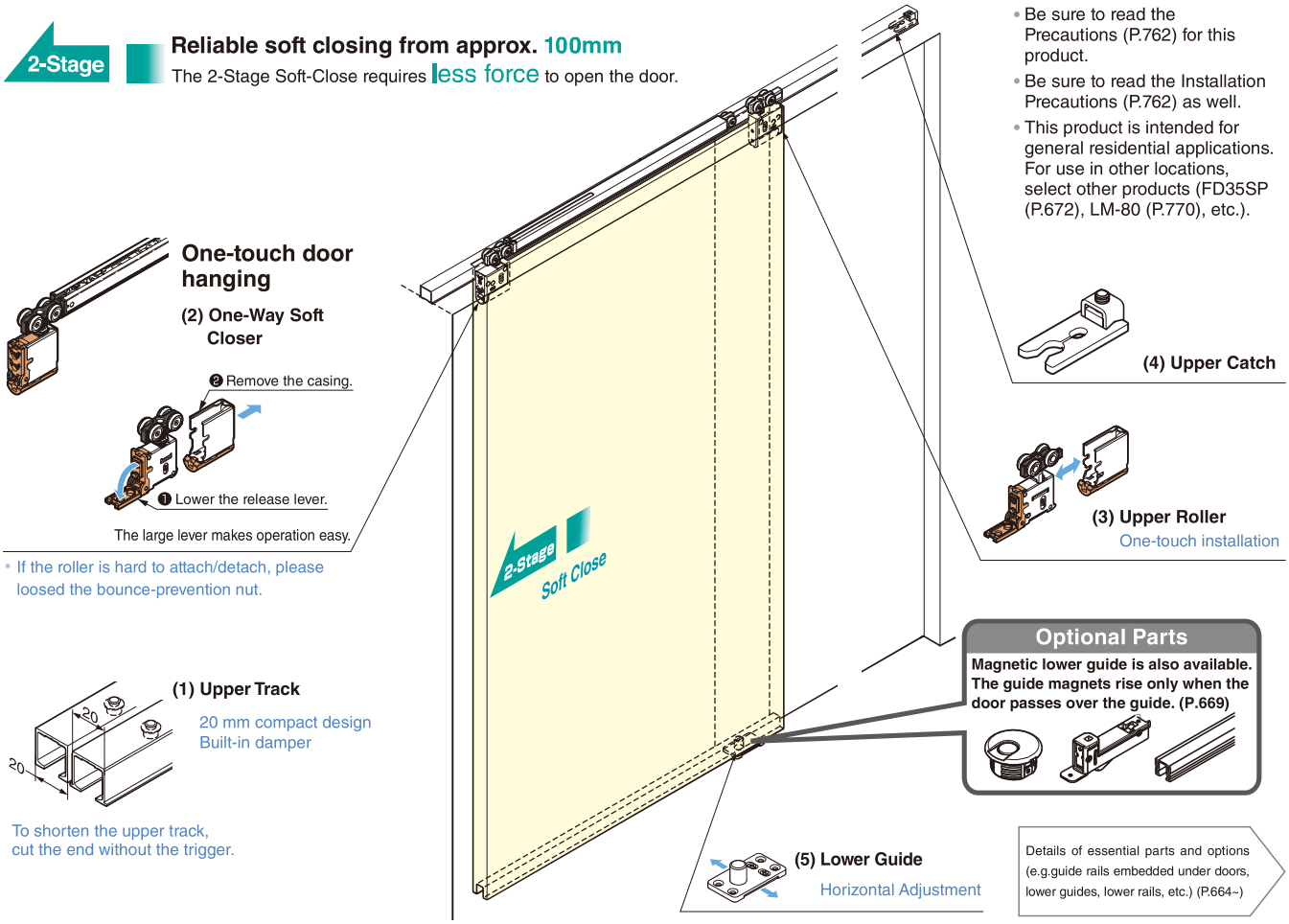
- One-way soft-close model of FD30SP.
- Upgraded for easier installation.

Passed Private 300K Cycle Test

Features	Door Size (per door)	Adjustment
One-Way Damper 2-Stage Soft Close	Min. 24mm / Max. 2400mm / 510-1000mm MAX 30kg 10 kg or more recommended	±3mm / ±2mm

2-Stage **Reliable soft closing from approx. 100mm**

The 2-Stage Soft-Close requires less force to open the door.



One-touch door hanging

(2) One-Way Soft Closer

❷ Remove the casing.

❶ Lower the release lever.

The large lever makes operation easy.

- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.

(1) Upper Track

20 mm compact design
Built-in damper

To shorten the upper track, cut the end without the trigger.

(4) Upper Catch

(3) Upper Roller

One-touch installation

(5) Lower Guide

Horizontal Adjustment

Optional Parts

Magnetic lower guide is also available. The guide magnets rise only when the door passes over the guide. (P.669)

Details of essential parts and options (e.g.guide rails embedded under doors, lower guides, lower rails, etc.) (P.664~)

INSTRUCTION

Remarks

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35SP (P.672), LM-80 (P.770), etc.).

Standard part list

Please also refer to "Types of Upper track" (P.647)

Upgraded parts

Parts / Item Code / Item Name	Selection: (1) Upper Track Surface Mount	Selection: (1) Upper Track Recessed Mount	Required Parts: (2) One-Way Soft Closer* 250-055-994 FD30SP-WRH-SC	Required Parts: (3) Upper Roller 250-055-995 FD30SP-WRH	Required Parts: (4) Upper Catch 250-019-969 FD30-HTST-DB	Required Parts: (5) Lower Guide (with Roller) 250-017-151 FD30-HBG-LBR	Required Parts: (6) Stopper Block 250-017-139 FD30-HSB
Single Sliding	1820 mm × 1 pc		1 pc	1 pc	1 pc	1 pc	—
			Parts Set: Item Code: 250-056-245 Item Name: FD30SPHCP				
Overlapping Sliding	1820 mm × 2pcs		2 pcs	2 pcs	2 pcs	2 pcs	—
			Parts Set: Item Code: 250-056-245 Item Name: FD30SP-HCP × 2				
Opposite Opening Sliding	1820 mm × 2 pcs		2 pcs	2 pcs	2 pcs	2 pcs	2 pcs
			Parts Set: Item Code: 250-056-245 Item Name: FD30SP-HCP × 2				

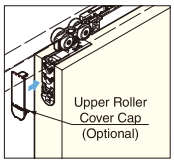
To be installed into upper track.

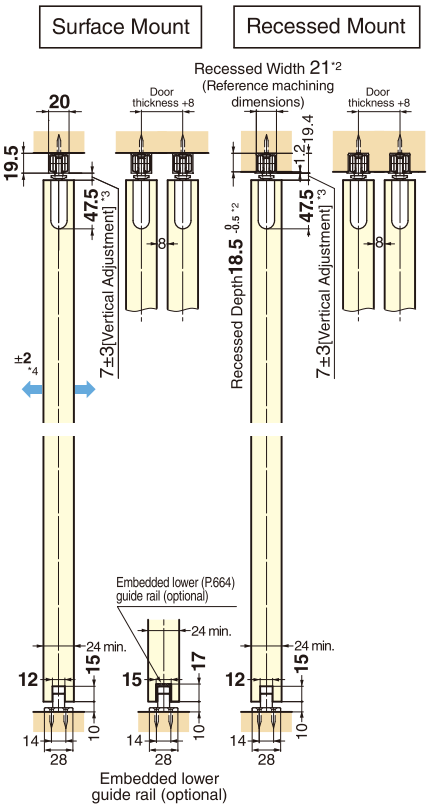
*Includes spanner. Can also be purchased separately. (P.660)

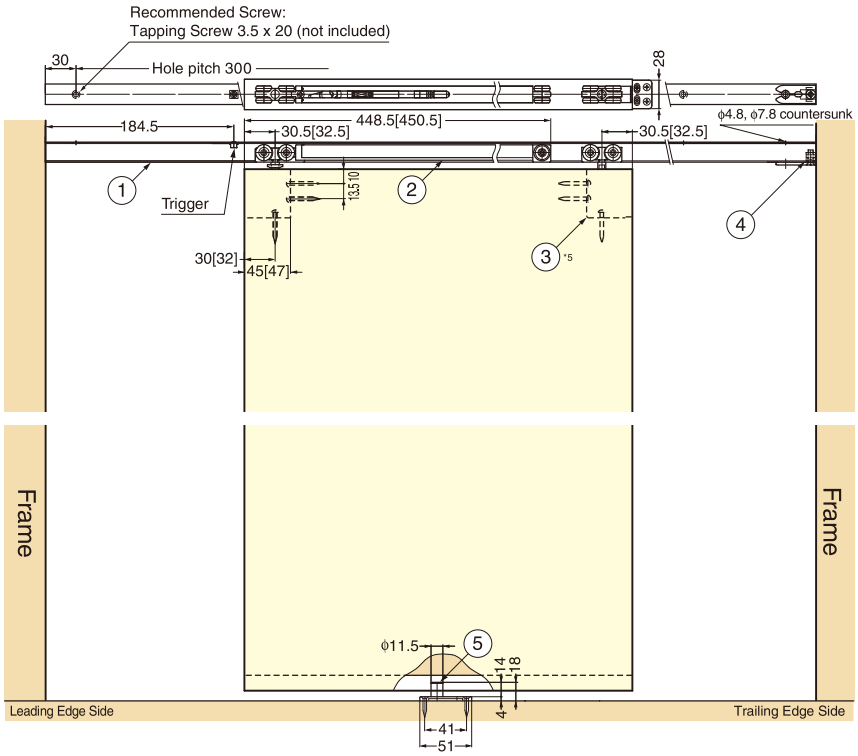
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

*2 If the surface is lined, account for the thickness of the material.
*3 The gap between the upper track and the door can be adjusted within a range of -3 mm to +3 mm.
*4 The horizontal position of the door can be adjusted within a range of -2mm to +2 mm from the end of the door.
*5 If the upper roller on the trailing edge side is replaced with a single soft closer (P.660) and a retrofit trigger (P.660), the door opening direction can be set to the soft-close specification (minimum door width 910mm).

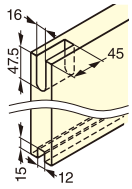




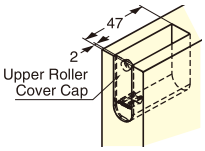


[ ] indicates the dimensions when the upper roller cover cap (optional) is attached. (P.664)

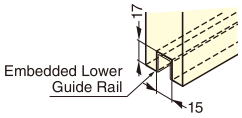
Cut Out Dimensions



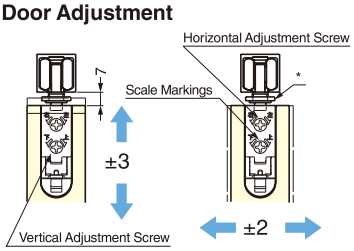
When using the upper roller cover cap (optional) (P.664)



When using the embedded lower guide rail (optional) (P.664)



Door Adjustment

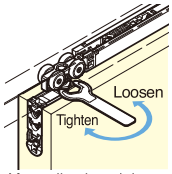


*Nut to prevent springing up

- Can be adjusted with one No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track

Recommended screws: Cross-recessed flat head tapping screws 3.5 x 20

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Surface Mount	1820mm	250-017-805 FD30-TRM1820SCSIL	250-017-806 FD30-TRM1820SCUM	250-025-146 FD30-TRM1820SCWT
	2000mm	250-018-873 FD30-TRM2000SCSIL	250-018-874 FD30-TRM2000SCUM	250-025-160 FD30-TRM2000SCWT
	2730mm	250-017-978 FD30-TRM2730SCSIL	250-017-979 FD30-TRM2730SCUM	250-025-148 FD30-TRM2730SCWT
	3000mm	250-018-877 FD30-TRM3000SCSIL	250-018-878 FD30-TRM3000SCUM	250-025-162 FD30-TRM3000SCWT
	3640mm	250-017-982 FD30-TRM3640SCSIL	250-017-983 FD30-TRM3640SCUM	250-025-150 FD30-TRM3640SCWT
	4000mm	250-018-881 FD30-TRM4000SCSIL	250-018-882 FD30-TRM4000SCUM	250-025-164 FD30-TRM4000SCWT
Recessed Mount	1820mm	250-017-807 FD30-TRH1820SCSIL	250-017-808 FD30-TRH1820SCUM	250-025-147 FD30-TRH1820SCWT
	2000mm	250-018-875 FD30-TRH2000SCSIL	250-018-876 FD30-TRH2000SCUM	250-025-161 FD30-TRH2000SCWT
	2730mm	250-017-980 FD30-TRH2730SCSIL	250-017-981 FD30-TRH2730SCUM	250-025-149 FD30-TRH2730SCWT
	3000mm	250-018-879 FD30-TRH3000SCSIL	250-018-880 FD30-TRH3000SCUM	250-025-163 FD30-TRH3000SCWT
	3640mm	250-017-984 FD30-TRH3640SCSIL	250-017-985 FD30-TRH3640SCUM	250-025-151 FD30-TRH3640SCWT
	4000mm	250-018-883 FD30-TRH4000SCSIL	250-018-884 FD30-TRH4000SCUM	250-025-165 FD30-TRH4000SCWT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD30SP Without Damper / Recessed Upper Roller NEW

Latest Info

- Without damper model of FD30SP.
- Upgraded for easier installation.

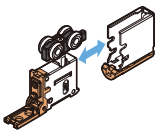
Passed Private 200K Cycle Test

Features	Door Size (per door)	Adjustment
–	Minimum 24 mm / Maximum 2400 mm / 510 - 1000 mm / MAX 30kg	±3 mm / ±2 mm

INSTRUCTION

Remarks

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35SP (P.672), LM-80 (P.770), etc.).

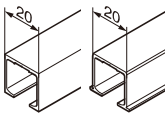


One-touch door hanging

(2) Upper Roller

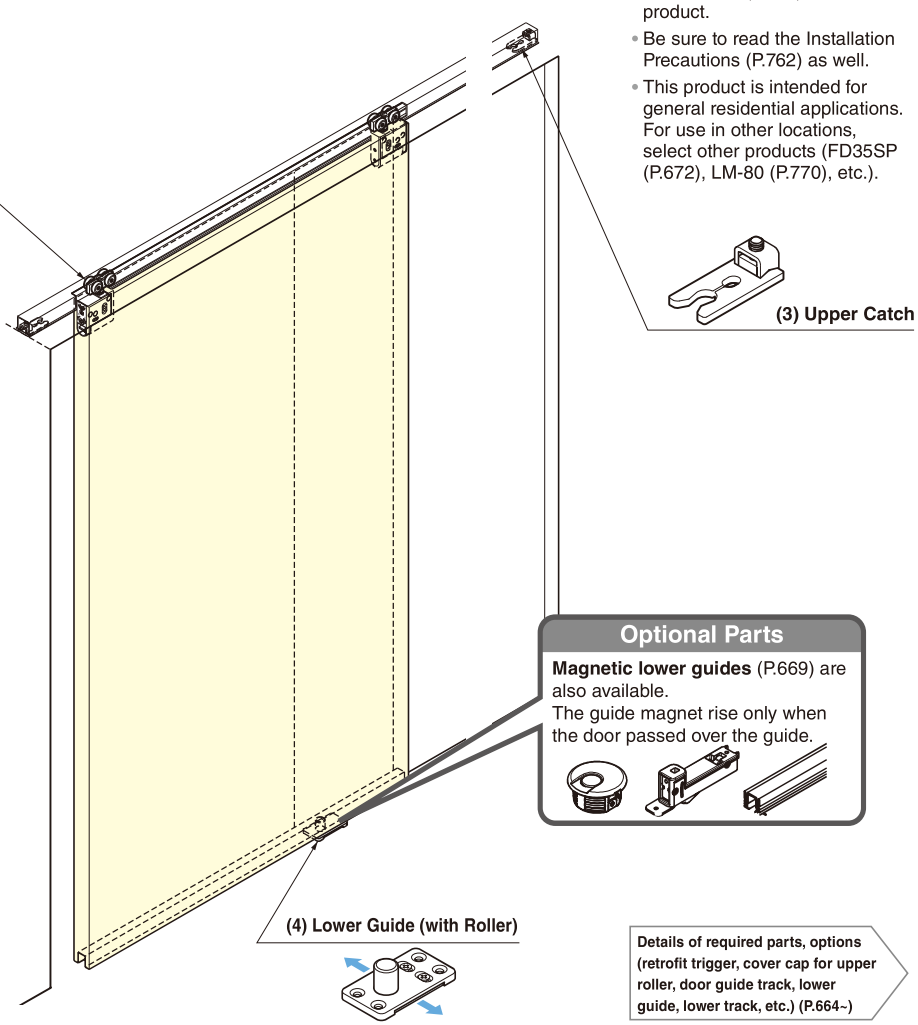
The roller can be mounted or removed easily.

- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.



Only 20 mm wide compact design, strong enough to suspend and slide a 30 kg door.

(1) Upper Track



(3) Upper Catch

Optional Parts

Magnetic lower guides (P.669) are also available.
The guide magnet rise only when the door passed over the guide.

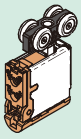
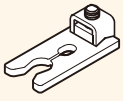
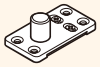
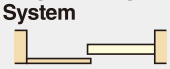
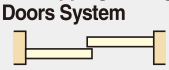
(4) Lower Guide (with Roller)

Details of required parts, options (retrofit trigger, cover cap for upper roller, door guide track, lower guide, lower track, etc.) (P.664~)

Standard Parts List

For details of (1) Upper track, see "Type of Upper Track" (P.649).

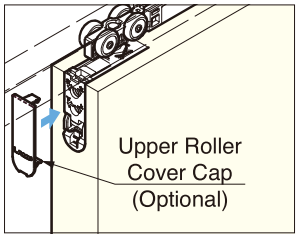
Upgraded part

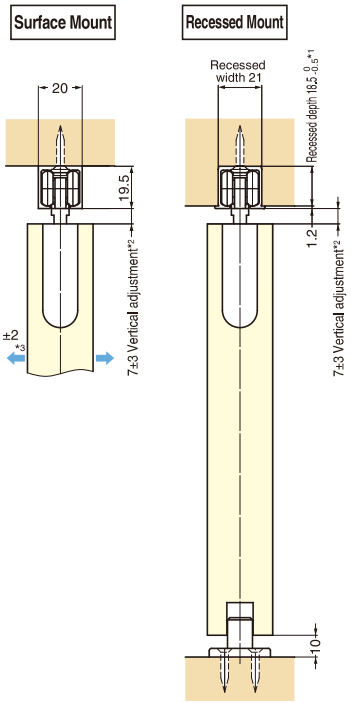
Parts	Selection		Required Parts		
	(1) Upper Track	(1) Upper Track	(2) Upper Roller (recessed mount)	(3) Upper Catch	(4) Lower Guide (with Roller)
	Surface Mount	Recessed Mount			
Item Code Item Name	Select surface or recessed mount		250-055-995 FD30SP-WRH	250-019-969 FD30-HTST-DB	250-017-151 FD30-HBG-LBR
Single Sliding Door System 	1820 mm x 1 pc		2 pcs	2 pcs	1 pc
			Parts Set	Item Code: 250-056-246 Item Name: FD30SPHHP	
Overlapping Sliding Doors System 	1820 mm x 2 pcs		4 pcs	4 pcs	2 pcs
			Parts Set	Item Code: 250-056-246 Item Name: FD30SPHHP × 2	

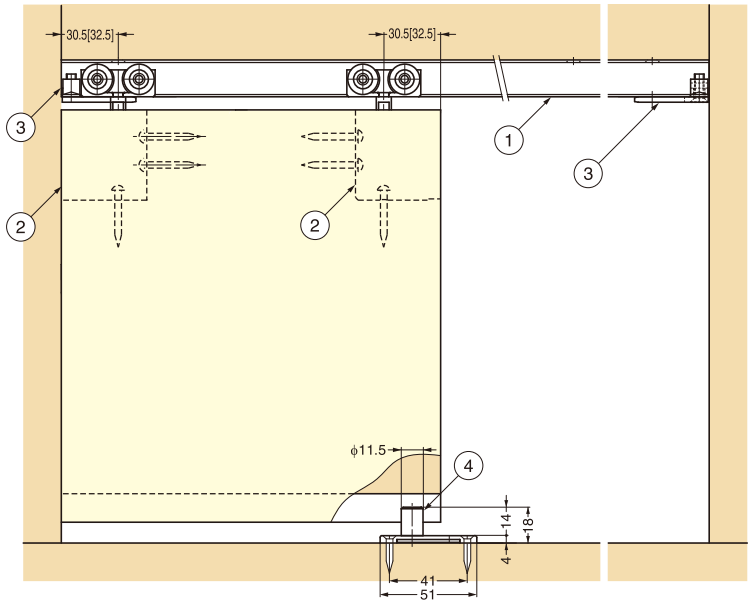
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

*1 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*2 The gap between the upper track and the door can be adjusted within a range of -3 mm to +3 mm.
*3 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm from the end of the door.

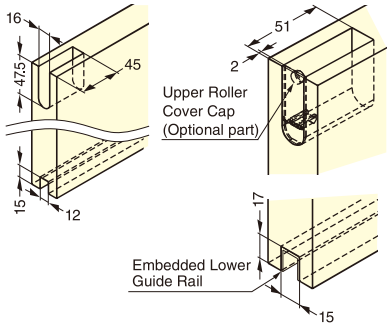




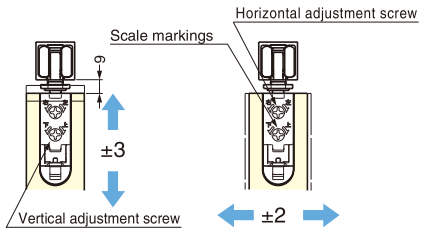


[ ] indicates the dimensions when the upper roller cover cap (optional) is attached.

Cut Out Dimensions



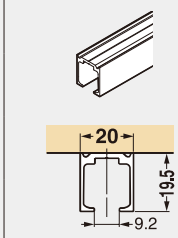
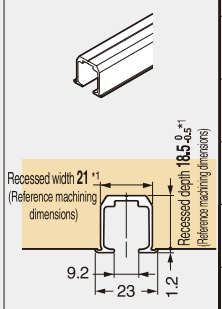
Door Adjustment



· Can be adjusted with one ⊕No. 2 screwdriver.
· Scale markings are provided for horizontal adjustment from the end of the door.

Type of Upper Track

Recommended screws: Cross-recessed flat head tapping screws 3.5 x 25

Specifications		Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Upper Track	Surface Mount 	910mm	250-017-962 FD30-TRM910SIL	250-017-963 FD30-TRM910UM	250-025-152 FD30-TRM910WT
		1820mm	250-017-131 FD30-TRM1820SIL	250-017-132 FD30-TRM1820UM	250-025-154 FD30-TRM1820WT
		2000mm	250-018-861 FD30-TRM2000SIL	250-018-862 FD30-TRM2000UM	250-025-166 FD30-TRM2000WT
		2730mm	250-017-966 FD30-TRM2730SIL	250-017-967 FD30-TRM2730UM	250-025-156 FD30-TRM2730WT
		3000mm	250-018-865 FD30-TRM3000SIL	250-018-866 FD30-TRM3000UM	250-025-168 FD30-TRM3000WT
		3640mm	250-017-970 FD30-TRM3640SIL	250-017-971 FD30-TRM3640UM	250-025-158 FD30-TRM3640WT
		4000mm	250-018-869 FD30-TRM4000SIL	250-018-870 FD30-TRM4000UM	250-025-170 FD30-TRM4000WT
	Recessed Mount 	910mm	250-017-964 FD30-TRH910SIL	250-017-965 FD30-TRH910UM	250-025-153 FD30-TRH910WT
		1820mm	250-017-133 FD30-TRH1820SIL	250-017-134 FD30-TRH1820UM	250-025-155 FD30-TRH1820WT
		2000mm	250-018-863 FD30-TRH2000SIL	250-018-864 FD30-TRH2000UM	250-025-167 FD30-TRH2000WT
		2730mm	250-017-968 FD30-TRH2730SIL	250-017-969 FD30-TRH2730UM	250-025-157 FD30-TRH2730WT
		3000mm	250-018-867 FD30-TRH3000SIL	250-018-868 FD30-TRH3000UM	250-025-169 FD30-TRH3000WT
		3640mm	250-017-972 FD30-TRH3640SIL	250-017-973 FD30-TRH3640UM	250-025-159 FD30-TRH3640WT
		4000mm	250-018-871 FD30-TRH4000SIL	250-018-872 FD30-TRH4000UM	250-025-171 FD30-TRH4000WT

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD30EX Two-way Damper / Side-Mount Roller Standard Sliding NEW

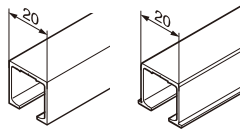
Latest Info

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

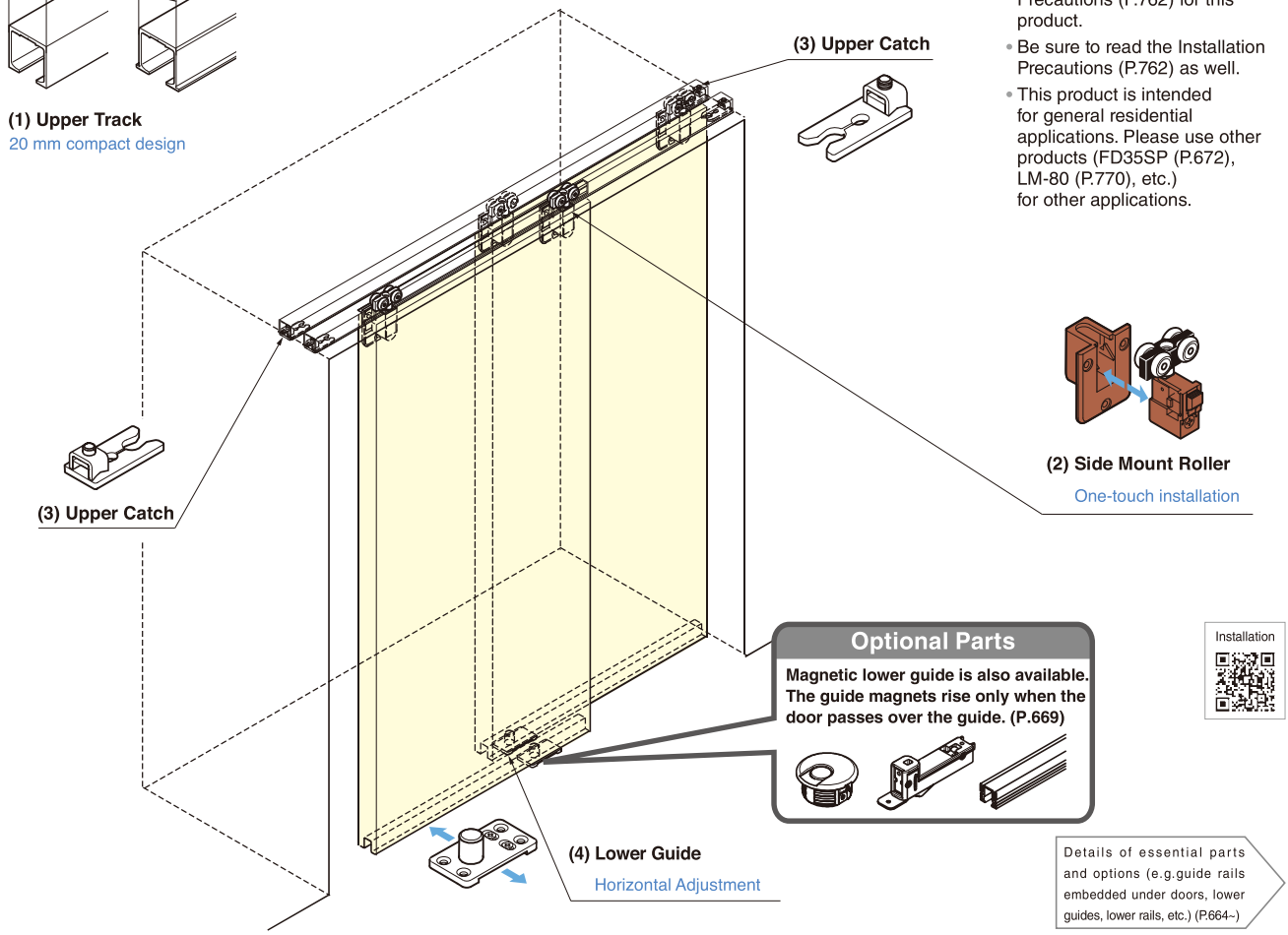
- Thin profile allows for flexible design and many different types of installations.

Passed Private 200K Cycle Test

Features	Door Size (per door)	Adjustment
–	Min. 28mm, Max. 2400mm, Max. 1000mm, MAX 30kg	±4 mm



(1) Upper Track
20 mm compact design



INSTRUCTION

Remarks

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. Please use other products (FD35SP (P.672), LM-80 (P.770), etc.) for other applications.

Optional Parts

Magnetic lower guide is also available. The guide magnets rise only when the door passes over the guide. (P.669)

Installation

Details of essential parts and options (e.g.guide rails embedded under doors, lower guides, lower rails, etc.) (P.664~)

Standard part list

Please also refer to "Types of Upper track" (P.651).

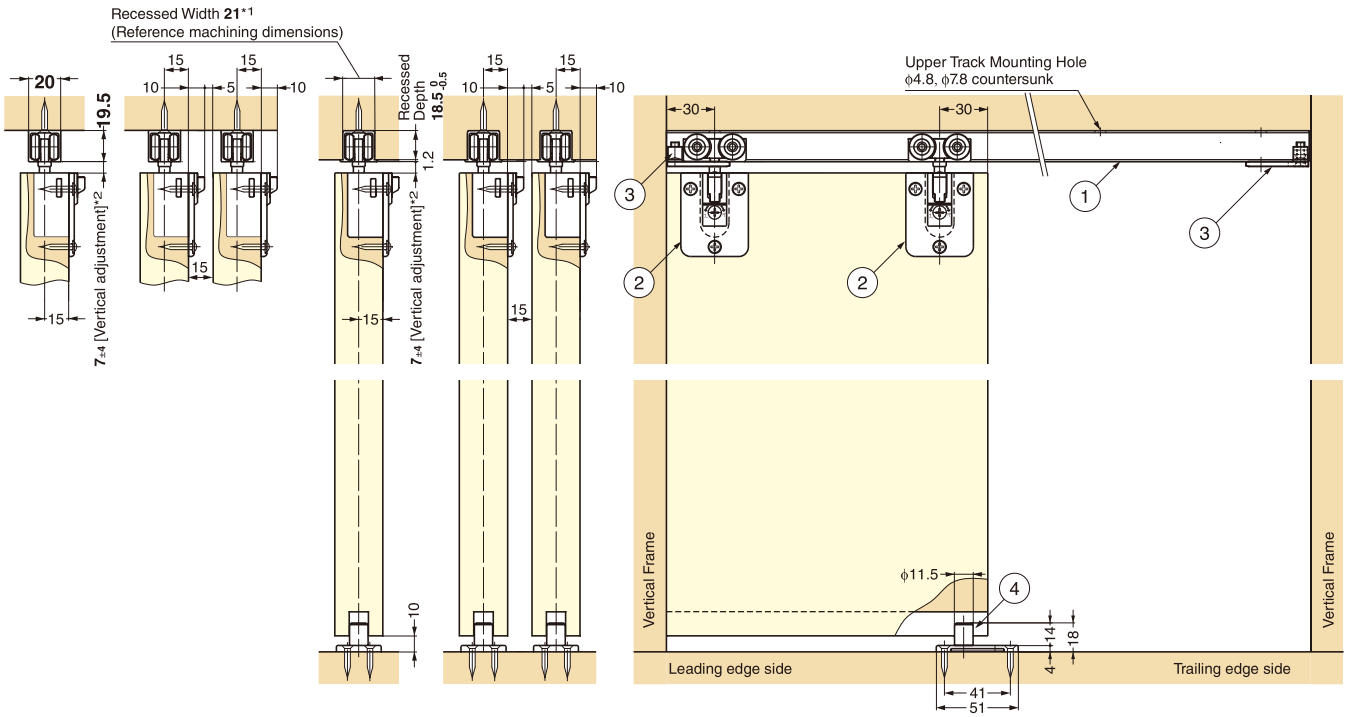
Parts	Selection		Required Parts		
	(1) Upper Track Surface Mount	(1) Upper Track Recessed Mount	(2) Side Mount Roller	(3) Upper Catch	(4) Lower Guide (with Roller)
Item Code / Item Name	Select surface or recessed mount		250-017-142 FD30-WRU	250-019-969 FD30-HTST-DB	250-017-151 FD30-HBG-LBR
Single Sliding	1820 mm × 1 pc		2 pcs	2 pcs Parts Set Item Code: 250-017-904 Item Name: FD30HUP	1 pc
Overlapping Sliding	1820 mm × 2 pcs		4 pcs	4 pcs Parts Set Item Code: 250-017-904 Item Name: FD30HUP	2 pcs × 2

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

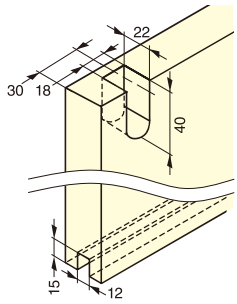
Installation Example

Surface Mount　　Recessed Mount

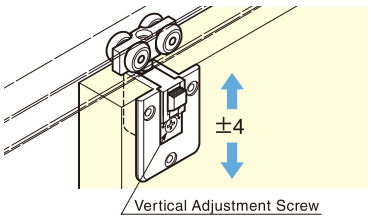
*1 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*2 The door position can be adjusted vertically within a range of -4 mm to +4 mm.



Cut Out Dimensions

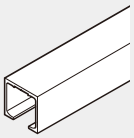
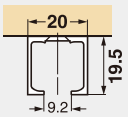
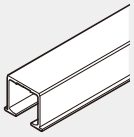
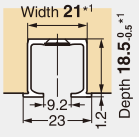


Door Adjustment



· Can be adjusted with one ⊕No. 2 screwdriver.

Type of Upper Track Recommended screws: Cross-recessed flathead tapping screws 3.5 × 20

Upper Track	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Surface Mount	910mm	250-017-962 FD30-TRM910SIL	250-017-963 FD30-TRM910UM	250-025-152 FD30-TRM910WT
	1820mm	250-017-131 FD30-TRM1820SIL	250-017-132 FD30-TRM1820UM	250-025-154 FD30-TRM1820WT
	2000mm	250-018-861 FD30-TRM2000SIL	250-018-862 FD30-TRM2000UM	250-025-166 FD30-TRM2000WT
	2730mm	250-017-966 FD30-TRM2730SIL	250-017-967 FD30-TRM2730UM	250-025-156 FD30-TRM2730WT
	3000mm	250-018-865 FD30-TRM3000SIL	250-018-866 FD30-TRM3000UM	250-025-168 FD30-TRM3000WT
	3640mm	250-017-970 FD30-TRM3640SIL	250-017-971 FD30-TRM3640UM	250-025-158 FD30-TRM3640WT
	4000mm	250-018-869 FD30-TRM4000SIL	250-018-870 FD30-TRM4000UM	250-025-170 FD30-TRM4000WT
Recessed Mount	910mm	250-017-964 FD30-TRH910SIL	250-017-965 FD30-TRH910UM	250-025-153 FD30-TRH910WT
	1820mm	250-017-133 FD30-TRH1820SIL	250-017-134 FD30-TRH1820UM	250-025-155 FD30-TRH1820WT
	2000mm	250-018-863 FD30-TRH2000SIL	250-018-864 FD30-TRH2000UM	250-025-167 FD30-TRH2000WT
	2730mm	250-017-968 FD30-TRH2730SIL	250-017-969 FD30-TRH2730UM	250-025-157 FD30-TRH2730WT
	3000mm	250-018-867 FD30-TRH3000SIL	250-018-868 FD30-TRH3000UM	250-025-169 FD30-TRH3000WT
	3640mm	250-017-972 FD30-TRH3640SIL	250-017-973 FD30-TRH3640UM	250-025-159 FD30-TRH3640WT
	4000mm	250-018-871 FD30-TRH4000SIL	250-018-872 FD30-TRH4000UM	250-025-171 FD30-TRH4000WT

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD30SP Two-way Damper / Outset / Recessed Upper Roller NEW

Latest Info

- Outset model of FD30SP.
- Wall-mounted upper track.
- Soft opening/closing motion.
- Upgraded for easier installation.

Passed Private 300K Cycle Test

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	30 - 36 mm Max. 2400 mm 590 - 1000 mm MAX 30kg 10 kg or more recommended	±3mm ±2mm

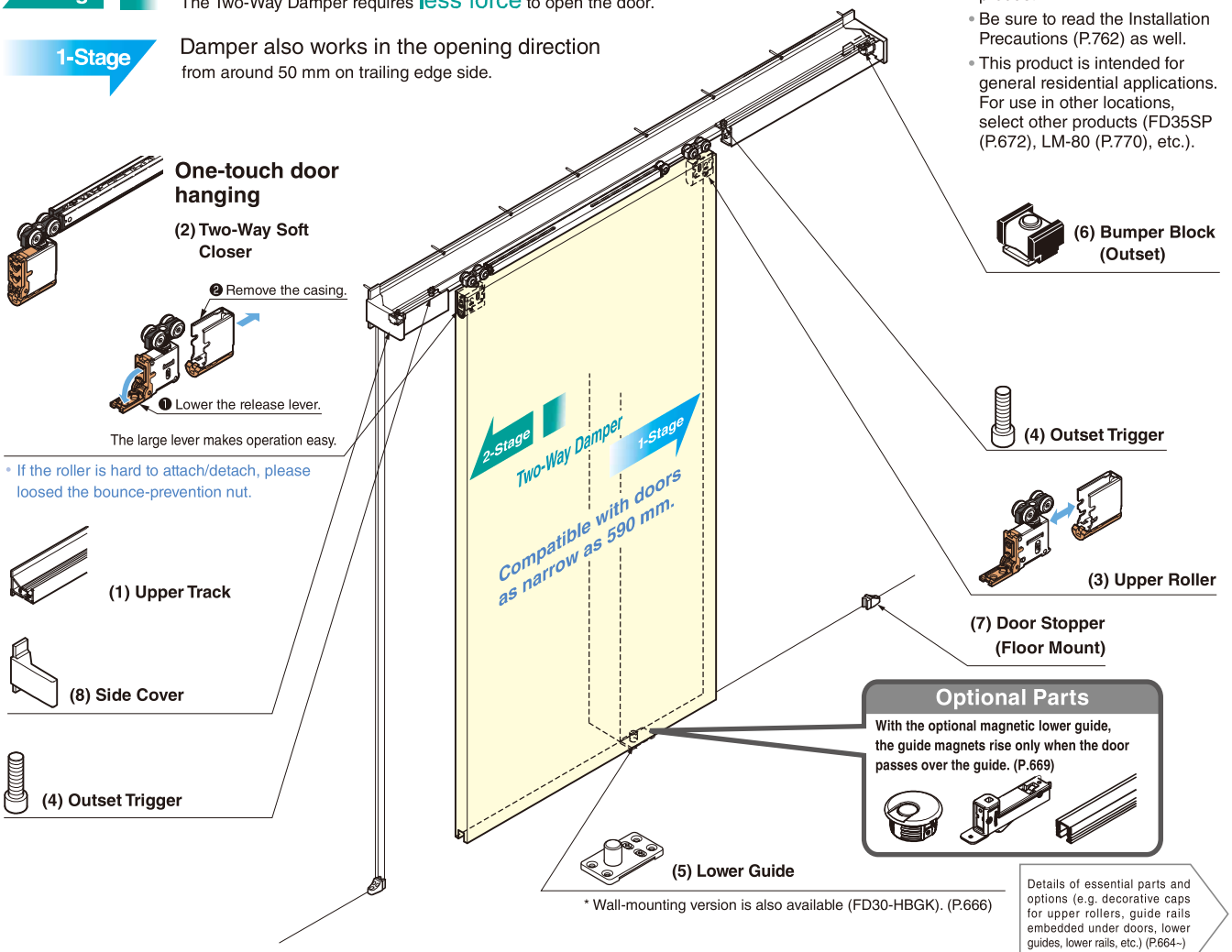
INSTRUCTION

Remarks

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35SP (P.672), LM-80 (P.770), etc.).

2-Stage
Reliable soft closing from approx. 100mm
The Two-Way Damper requires less force to open the door.

1-Stage
Damper also works in the opening direction
from around 50 mm on trailing edge side.



Optional Parts

With the optional magnetic lower guide, the guide magnets rise only when the door passes over the guide. (P.669)

* Wall-mounting version is also available (FD30-HBGK). (P.666)

Details of essential parts and options (e.g. decorative caps for upper rollers, guide rails embedded under doors, lower guides, lower rails, etc.) (P.664~)

Standard part list

Please also refer to "Types of Upper track." (P.653)

Upgraded parts

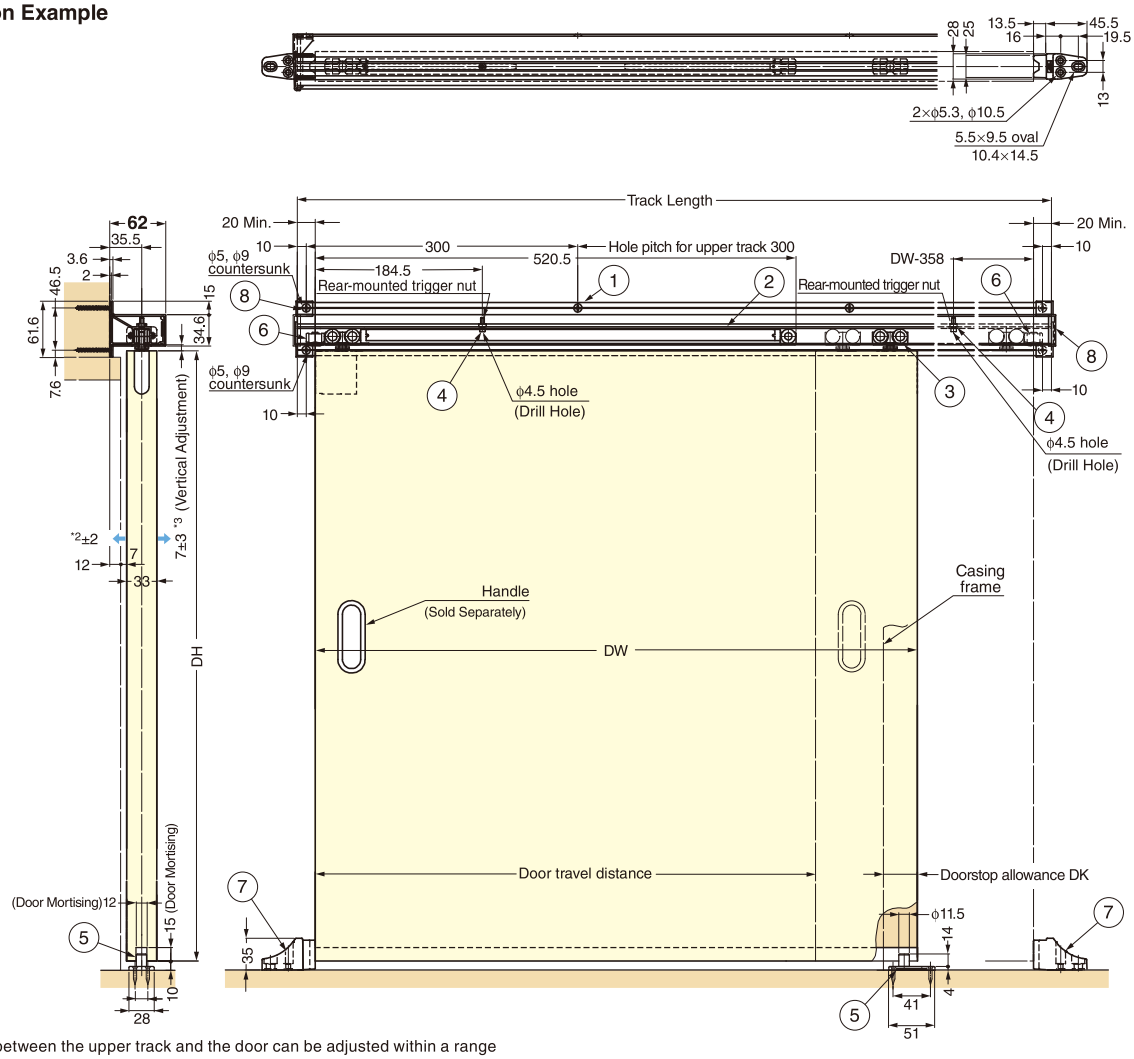
	Selection	Required Parts						Required Parts
Parts	(1) Upper Track	(2) Two-Way Soft Closer*	(3) Upper Roller	(4) Outset Trigger (2 pcs)	(5) Lower Guide (with Roller)	(6) Outset Bumper Block	(7) Door Stopper	(8) Side Cover
Item Code Item Name		250-055-992 FD30SP-WRH-DSC	250-055-996 FD30SP-WRH-N	250-022-274 FD30-HATG	250-017-151 FD30-HBG-LBR	250-022-265 FD30-HBB	250-018-497 FD30-HTKY	
Two-Way Damper	2100 mm × 1 pc	1 pc	1 pc	1 set	1 pc	2 pcs	2 pcs	1 set (grey) 250-022-273 FD30-HASC-GR 1 set (brown) 250-022-449 FD30-HASC-BR 1 set (white) 250-025-640 FD30-HASC-WT

Parts Set — Item Code: 250-056-247 — Item Name: FD30SPDHCP-AK

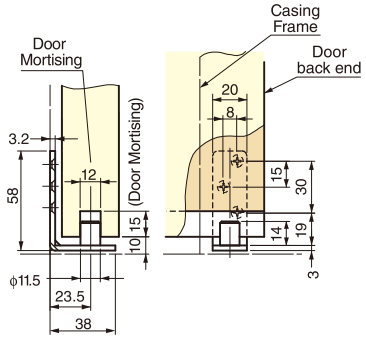
*Includes a spanner. Can also be purchased separately. (P.660)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example



*2 The gap between the upper track and the door can be adjusted within a range of -3 mm to +3 mm.
*3 The horizontal position of the door can be adjusted within a range of -2mm ro +2 mm from the end of the door.

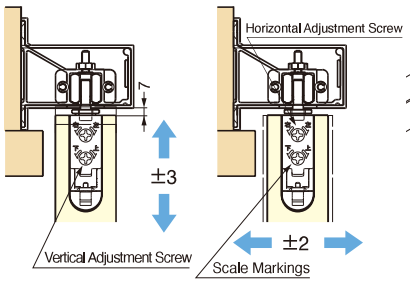


Example of wall mount lower guide roller (P.666)

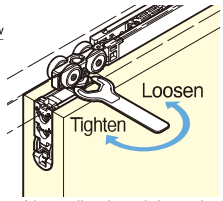
Door Adjustment

Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



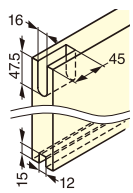
*Nut to prevent springing up



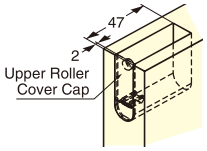
After adjusting, tighten the spring up prevention nuts (necessary parts (2) and (3)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

· Can be adjusted with one No. 2 screwdriver.
· Scale markings are provided for horizontal adjustment from the end of the door.

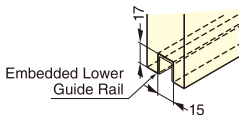
Cut Out Dimensions



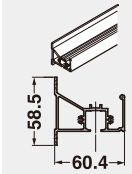
When using the upper roller cover cap (optional) (P.664)



When using the embedded lower guide rail (optional) (P.664)



Type of Outset Upper Track Included screws: Cross-recessed flat head tapping screws 4 x 40

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Outset 	2100mm	250-022-269 FD30-TRA2100SL	250-022-270 FD30-TRA2100UM	250-025-172 FD30-TRA2100WT
	2730mm	250-022-271 FD30-TRA2730SL	250-022-272 FD30-TRA2730UM	250-025-173 FD30-TRA2730WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD30SP Two-way Damper / Synchronized 2-door / Recessed Upper Roller NEW

Latest Info

- 2-door synchro model of FD30SP.
- Soft opening/closing motion.
- Upgraded for easier installation.

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	30 - 38mm Max. 2400mm MAX 30kg 10 kg or more recommended Main Door 590 - 1000mm (Two-Way Soft Close) Secondary Door 510 - 1000mm (One-Way Soft Close)	±3mm ±2mm

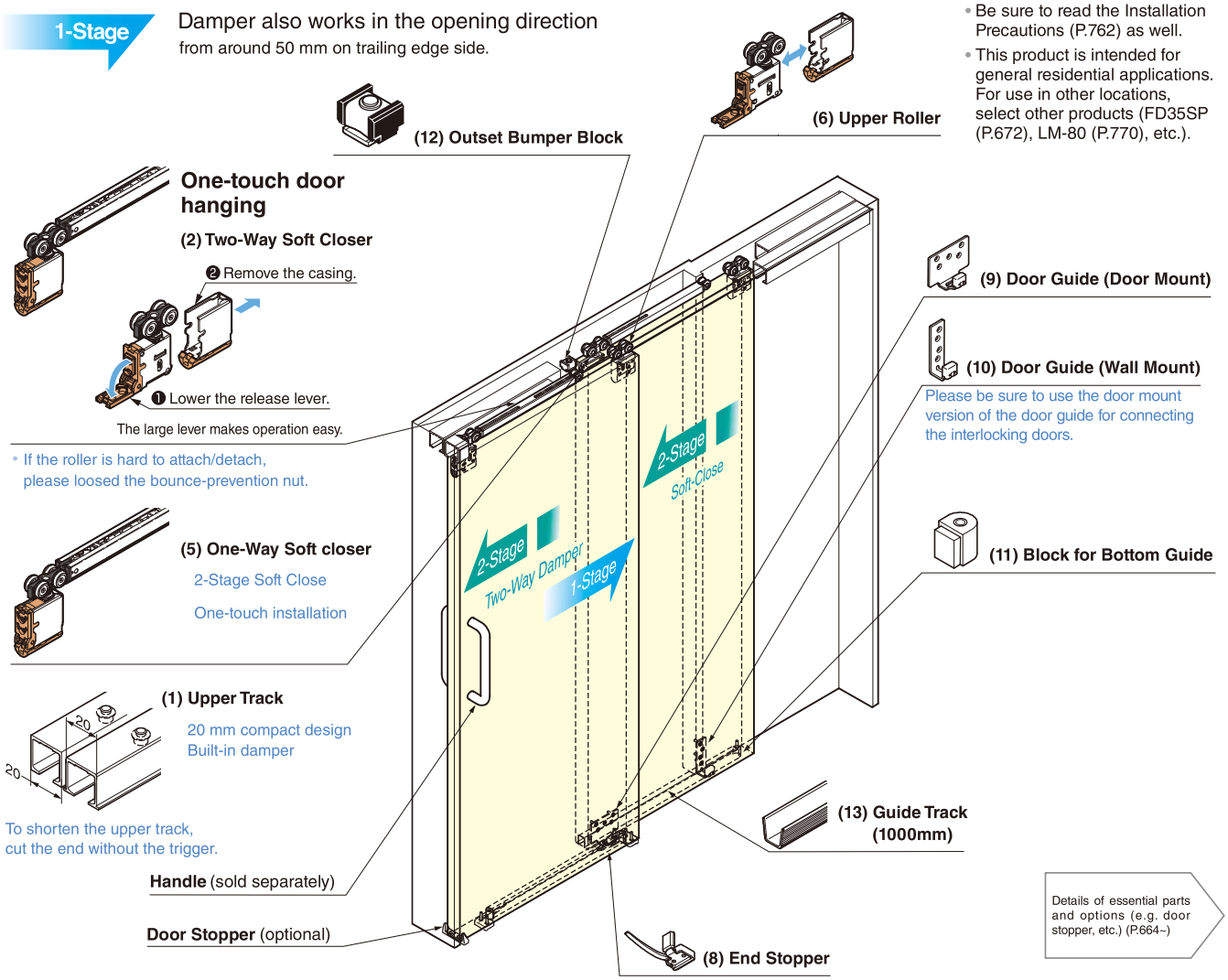
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35SP (P.672), LM-80 (P.770), etc.).

2-Stage Reliable soft closing from approx. 100mm
The Two-Way Damper requires less force to open the door.

1-Stage Damper also works in the opening direction
from around 50 mm on trailing edge side.



Details of essential parts and options (e.g. door stopper, etc.) (P.664~)

Standard part list

Please also refer to "Types of Upper track." (P.655)

Upgraded parts

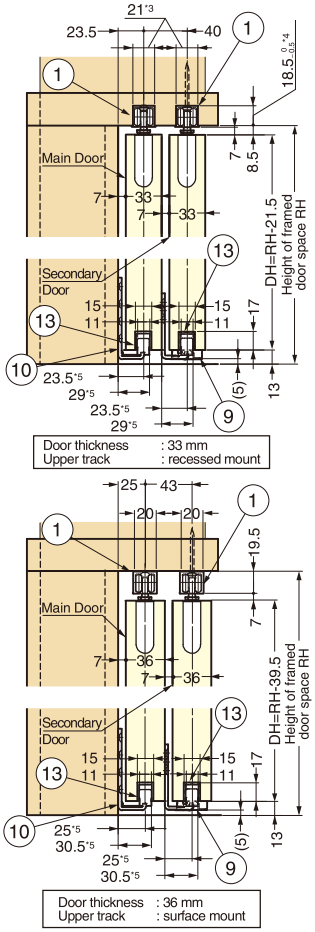
Parts	Selection		Required Parts											
	(1) Upper Track	(1) Upper Track	(2) Two-Way Soft Closer*1	(3) Retro-fit trigger	(4) Jig for Trigger	(5) One-Way Soft Closer*2	(6) Upper Roller	(7) Retro-fit trigger	(8) End Stopper (2 pcs)	(9) Door Guide (Door Mount)	(10) Door Guide (Wall Mount)	(11) Block for Bottom Guide	(12) Outset Bumper Block	(13) Guide Track
	Surface Mount	Recessed Mount												
Item Code			250-055-992			250-055-994	250-055-996	250-052-630	250-022-261	250-022-262	250-022-263	250-022-264	250-022-265	250-022-266
Item Name			FD30SP-WRH-DSC	Included	Included	FD30SP-WRH-SC	FD30SP-WRH-N	FD25SP-30-TRG	FD30-HRGU	FD30-HRDG	FD30-HBGF	FD30-HRDB	FD30-HBB	FD30-HBDR1000
Interlocking Panels (x2)	1820 mm × 2 pcs		1 pc	1 pc	1 pc	1 pc	2 pcs	1 pc	1 set	1 pc	1 pc	1 pc	1 pc	2 pcs

Parts Set — Item Code: 250-056-248 — Item Name: FD30SP-HRP2

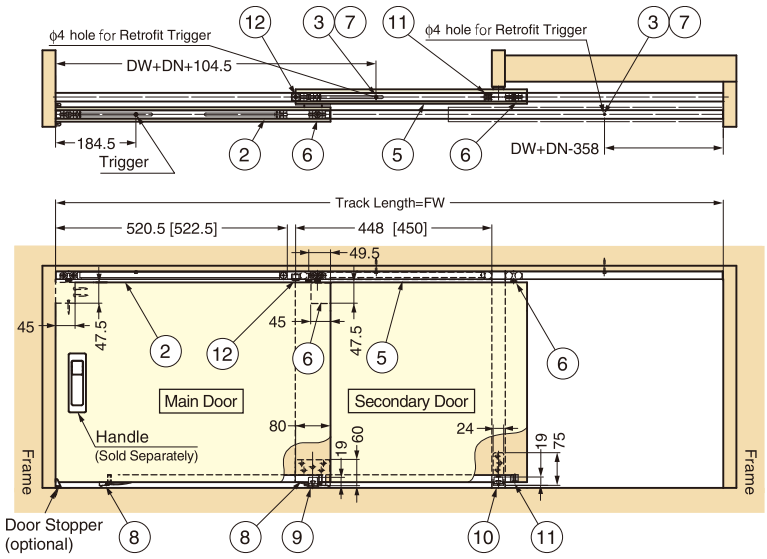
*1 Includes Retrofit Trigger, Jig for Trigger, and spanner. *2 Includes a spanner. Can also be purchased separately. (P.660)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

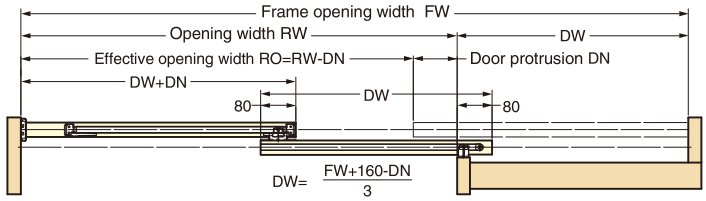
Installation Example



Effective opening width RO = 1018 - 1838mm (without door protrusion DN)
858 - 1758mm (with door protrusion DN80mm)



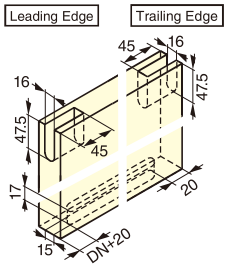
[ ] indicates the dimensions when the upper roller cover cap (optional) is attached. (P.664)



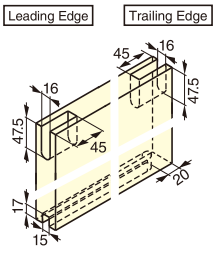
*3 **21** shows the recessed mount dimensions (mortising dimensions).
*4 Reference dimensions.
*5 For this condition, replace the guide blocks with the Door Guide (Wall Mount) ⑨ and the Block for Bottom Guide ⑩.

Cut Out Dimensions

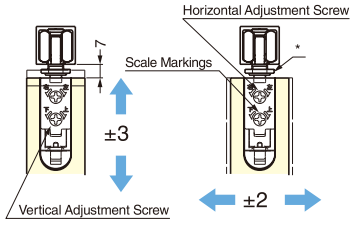
Main Door



Secondary Door



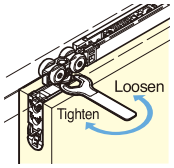
Door Adjustment



· Can be adjusted with one No. 2 screwdriver.
· Scale markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

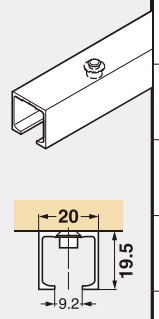
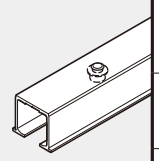
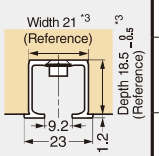
Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2), (5), and (6)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track

Recommended screws: Cross-recessed flat head tapping screws 3.5 x 20

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Surface Mount	1820mm	250-017-805 FD30-TRM1820SCSIL	250-017-806 FD30-TRM1820SCUM	250-025-146 FD30-TRM1820SCWT
	2000mm	250-018-873 FD30-TRM2000SCSIL	250-018-874 FD30-TRM2000SCUM	250-025-160 FD30-TRM2000SCWT
	2730mm	250-017-978 FD30-TRM2730SCSIL	250-017-979 FD30-TRM2730SCUM	250-025-148 FD30-TRM2730SCWT
	3000mm	250-018-877 FD30-TRM3000SCSIL	250-018-878 FD30-TRM3000SCUM	250-025-162 FD30-TRM3000SCWT
	3640mm	250-017-982 FD30-TRM3640SCSIL	250-017-983 FD30-TRM3640SCUM	250-025-150 FD30-TRM3640SCWT
	4000mm	250-018-881 FD30-TRM4000SCSIL	250-018-882 FD30-TRM4000SCUM	250-025-164 FD30-TRM4000SCWT
Recessed Mount	1820mm	250-017-807 FD30-TRH1820SCSIL	250-017-808 FD30-TRH1820SCUM	250-025-147 FD30-TRH1820SCWT
	2000mm	250-018-875 FD30-TRH2000SCSIL	250-018-876 FD30-TRH2000SCUM	250-025-161 FD30-TRH2000SCWT
	2730mm	250-017-980 FD30-TRH2730SCSIL	250-017-981 FD30-TRH2730SCUM	250-025-149 FD30-TRH2730SCWT
	3000mm	250-018-879 FD30-TRH3000SCSIL	250-018-880 FD30-TRH3000SCUM	250-025-163 FD30-TRH3000SCWT
	3640mm	250-017-984 FD30-TRH3640SCSIL	250-017-985 FD30-TRH3640SCUM	250-025-151 FD30-TRH3640SCWT
	4000mm	250-018-883 FD30-TRH4000SCSIL	250-018-884 FD30-TRH4000SCUM	250-025-165 FD30-TRH4000SCWT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD30SP Two-way Damper / Synchronized 3-door / Recessed Upper Roller NEW

Latest Info

- 3-door synchro model of FD30SP.
- Soft opening/closing motion.
- Upgraded for easier installation.

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	30 - 38mm Max. 2400mm MAX 30kg 10 kg or more recommended Main Door 590 - 1000 mm (Two-Way Soft Close) Secondary Door 510 - 1000 mm (One-Way Soft Close)	±3 mm ±2 mm

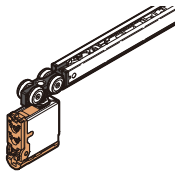
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35SP (P.672), LM-80 (P.770), etc.).

2-Stage Reliable soft closing from approx. 100 mm
The Two-Way Damper requires less force to open the door.

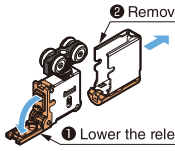
1-Stage Damper also works in the opening direction
from around 50 mm on trailing edge side.



One-touch door hanging

(2) Two-Way Soft Closer

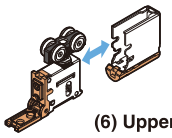
❷ Remove the casing.



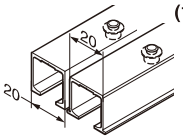
❶ Lower the release lever.

The large lever makes operation easy.

- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.



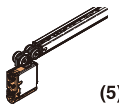
(6) Upper Roller



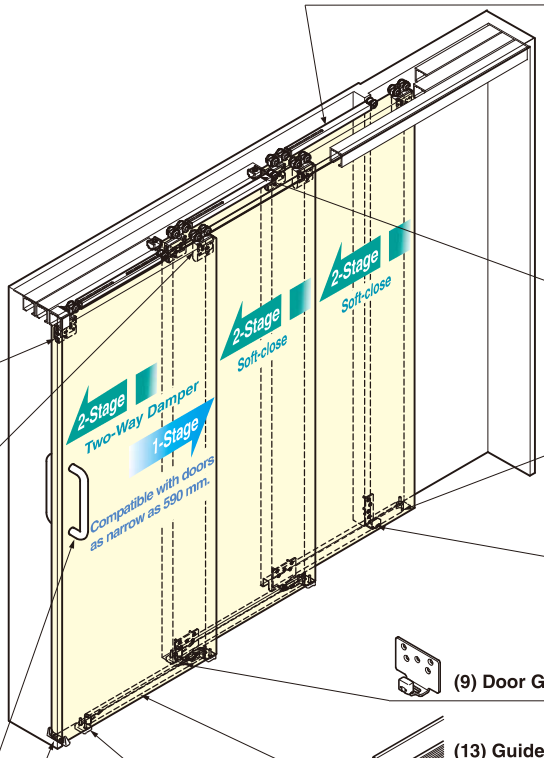
(1) Upper Track

20 mm compact design
Built-in damper

To shorten the upper track, cut the end without the trigger.



(5) One-Way Soft closer





(12) Outset Bumper Block



(11) Block for Bottom Guide



(10) Door Guide (Wall Mount)

Please be sure to use the door mount version of the door guide for connecting the interlocking doors.

(9) Door Guide (Door Mount)



(13) Guide Track (1000 mm)



(8) End Stopper

Handle (sold separately)

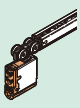
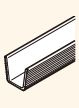
Door Stopper (optional)

Details of essential parts and options (e.g. door stopper, etc.) (P.664~)

Standard part list

Please also refer to "Types of Upper track." (P.657)

Upgraded parts

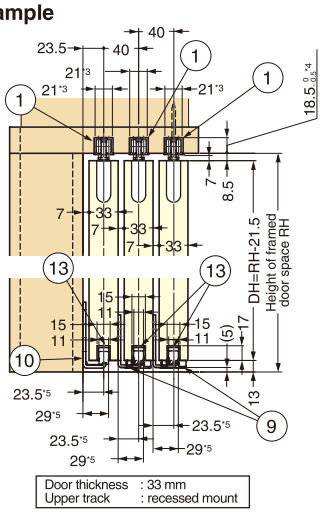
Parts	Selection		Required Parts											
	(1) Upper Track	(1) Upper Track	(2) Two-Way Soft Closer*1	(3) Retro-fit trigger	(4) Jig for Trigger	(5) One-Way Soft Closer*2	(6) Upper Roller	(7) Retro-fit trigger	(8) End Stopper (2 pcs)	(9) Door Guide (Door Mount)	(10) Door Guide (Wall Mount)	(11) Block for Bottom Guide	(12) Outset Bumper Block	(13) Guide Track
	Surface Mount	Recessed Mount												
Item Code			250-055-992			250-055-994	250-055-996	250-052-630	250-022-261	250-022-262	250-022-263	250-022-264	250-022-265	250-022-266
Item Name			FD30SP-WRH-DSC	Included	Included	FD30SP-WRH-SC	FD30SP-WRH-N	FD25SP-30-TRG	FD30-HRGU	FD30-HRDG	FD30-HBGF	FD30-HRDB	FD30-HBB	FD30-HBDR1000
Interlocking Panels (x3)	2730 mm × 3 pcs		1 pc	1 pc	1 pc	2 pcs	3 pcs	2 pcs	2 sets	2 pcs	1 pc	1 pc	2 pcs	3 pcs

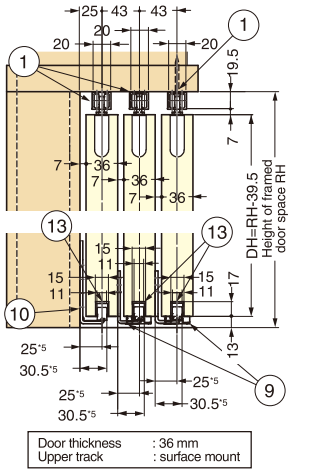
Parts Set — Item Code: 250-056-249 — Item Name: FD30SP-HRP3

*1 Includes Retrofit Trigger, Jig for Trigger, and spanner. *2 Includes a spanner. Can also be purchased separately. (P.660)

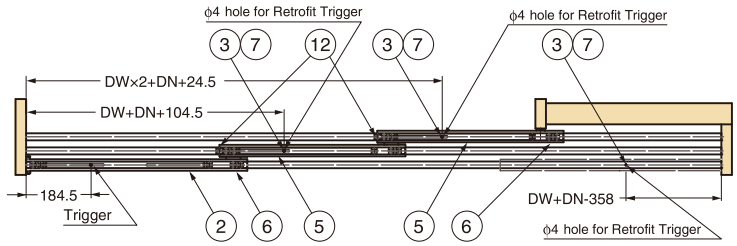
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

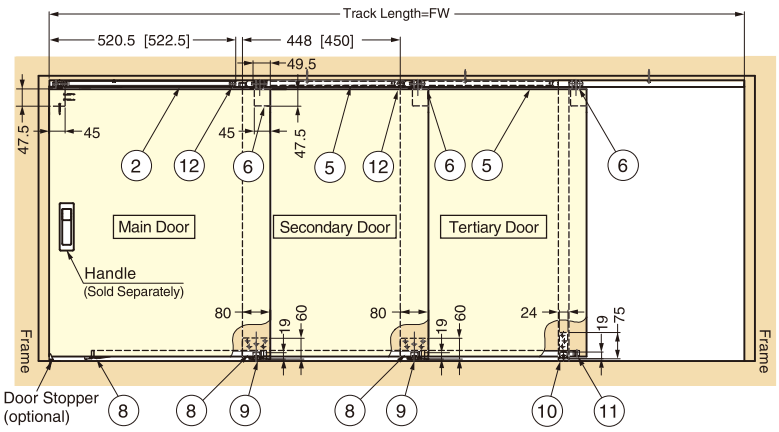
Installation Example



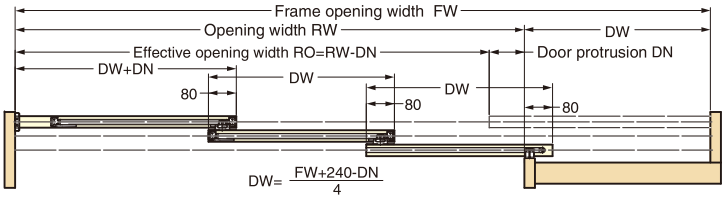


Effective opening width RO = 1530 - 2760 mm (without door protrusion DN)
1290 - 2680 mm (with door protrusion DN80 mm)





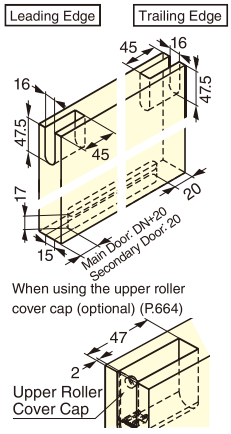
[ ] indicates the dimensions when the upper roller cover cap (optional) is attached. (P.664)



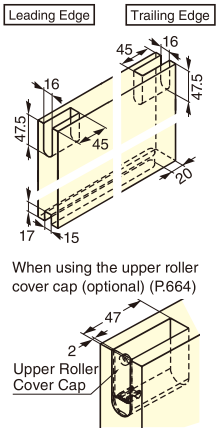
*3 **21** shows the recessed mount dimensions (mortissing dimensions).
*4 Reference dimensions.
*5 For this condition, replace the guide blocks with the Door Guide (Wall Mount) ⑨ and the Block for Bottom Guide ⑩.

Cut Out Dimensions

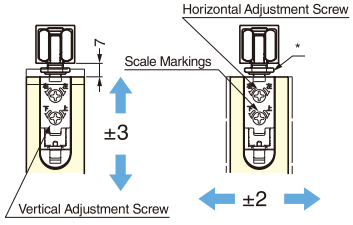
Main & Secondary Door



Tertiary Door



Door Adjustment

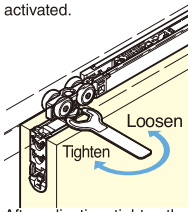


*Nut to prevent springing up

- Can be adjusted with one No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

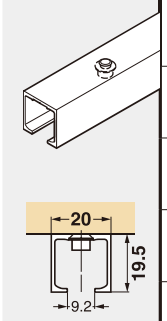
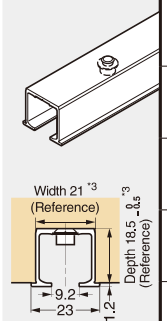
Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2), (5), and (6)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track Recommended screws: Cross-recessed flat head tapping screws 3.5 x 20

Upper Tracks	Length	Silver Item Code / Item Name	Amber Item Code / Item Name	White Item Code / Item Name
Surface Mount 	1820 mm	250-017-805 FD30-TRM1820SCSIL	250-018-806 FD30-TRM1820SCUM	250-025-146 FD30-TRM1820SCWT
	2000 mm	250-018-873 FD30-TRM2000SCSIL	250-018-874 FD30-TRM2000SCUM	250-025-160 FD30-TRM2000SCWT
	2730 mm	250-017-978 FD30-TRM2730SCSIL	250-017-979 FD30-TRM2730SCUM	250-025-148 FD30-TRM2730SCWT
	3000 mm	250-018-877 FD30-TRM3000SCSIL	250-018-878 FD30-TRM3000SCUM	250-025-162 FD30-TRM3000SCWT
	3640 mm	250-017-982 FD30-TRM3640SCSIL	250-017-983 FD30-TRM3640SCUM	250-025-150 FD30-TRM3640SCWT
	4000 mm	250-018-881 FD30-TRM4000SCSIL	250-018-882 FD30-TRM4000SCUM	250-025-164 FD30-TRM4000SCWT
Recessed Mount 	1820 mm	250-017-807 FD30-TRH1820SCSIL	250-017-808 FD30-TRH1820SCUM	250-025-147 FD30-TRH1820SCWT
	2000 mm	250-018-875 FD30-TRH2000SCSIL	250-018-876 FD30-TRH2000SCUM	250-025-161 FD30-TRH2000SCWT
	2730 mm	250-017-980 FD30-TRH2730SCSIL	250-017-981 FD30-TRH2730SCUM	250-025-149 FD30-TRH2730SCWT
	3000 mm	250-018-879 FD30-TRH3000SCSIL	250-018-880 FD30-TRH3000SCUM	250-025-163 FD30-TRH3000SCWT
	3640 mm	250-017-984 FD30-TRH3640SCSIL	250-017-985 FD30-TRH3640SCUM	250-025-151 FD30-TRH3640SCWT
	4000 mm	250-018-883 FD30-TRH4000SCSIL	250-018-884 FD30-TRH4000SCUM	250-025-165 FD30-TRH4000SCWT

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD30SP Pocket Door / Two-way Damper / Recessed Upper Roller NEW

Latest Info

- Pocket door model of FD30SP.
- Separable upper tracks.
- Easy maintenance after installation.
- Soft opening/closing motion.
- Upgraded for easier installation.

Passed Private 300K Cycle Test

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	Min. 30 mm Max. 2400 mm 590-1000 mm MAX 30kg 10 kg or more recommended	±3 mm ±2 mm

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

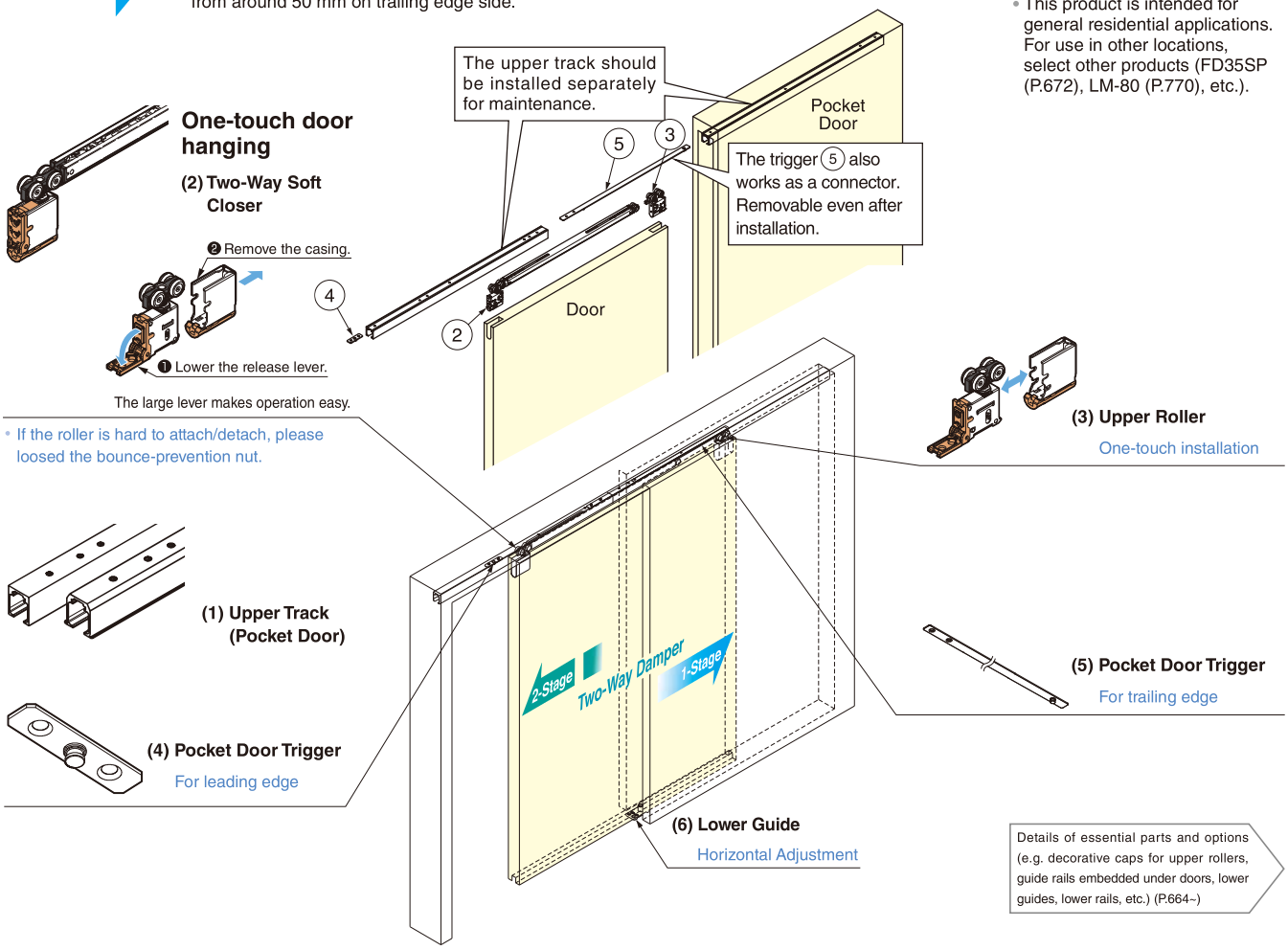
INSTRUCTION

Remarks

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.
- This product is intended for general residential applications. For use in other locations, select other products (FD35SP (P.672), LM-80 (P.770), etc.).

2-Stage **Reliable soft closing from approx. 100 mm**
The Two-Way Damper requires less force to open the door.

1-Stage Damper also works in the opening direction
from around 50 mm on trailing edge side.



Details of essential parts and options (e.g. decorative caps for upper rollers, guide rails embedded under doors, lower guides, lower rails, etc.) (P.664~)

Standard part list

Please also refer to "Types of Upper track." (P.659)

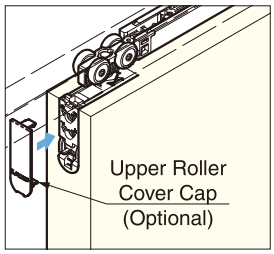
Upgraded parts

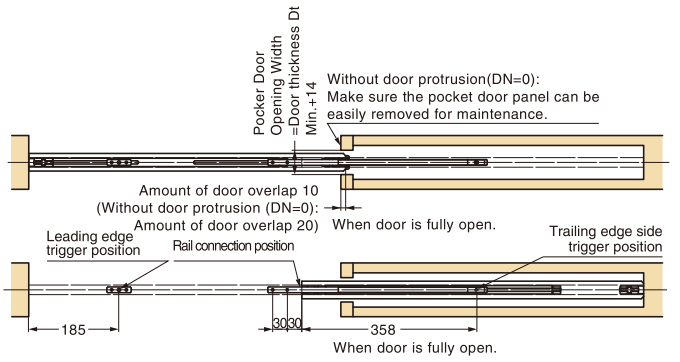
Parts	Selection		Required Parts				
	(1) Upper Track Surface Mount	(1) Upper Track Recessed Mount	(2) Two-Way Soft Closer*1	(3) Upper Roller	(4) Pocket Door Trigger (Leading Edge)	(5) Pocket Door Trigger (Leading Edge)	(6) Lower Guide (with roller)
Item Code Item Name			250-055-992 FD30SP-WRH-DSC	250-055-996 FD30SP-WRH-N	250-029-705 FD30-TRGPF	250-029-704 FD30-TRGPB	250-017-151 FD30-HBG-LBR
Pocket Door	1860 mm × 1 pc (can be cut to size)		1 pc	1 pc	1 pc	1 pc	1 pc
Parts Set			Item Code: 250-056-250 Item Name: FD30SPDHCP-PD				

*1 Includes a spanner. Can also be purchased separately. (P.660)

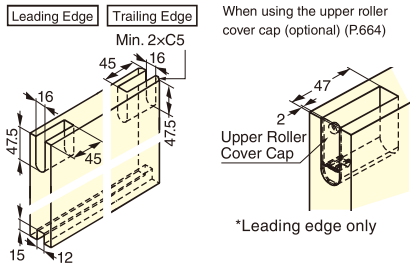
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

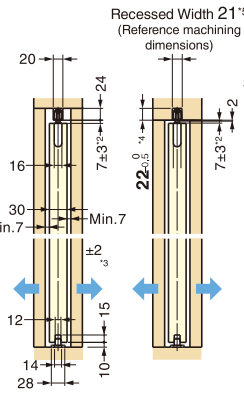


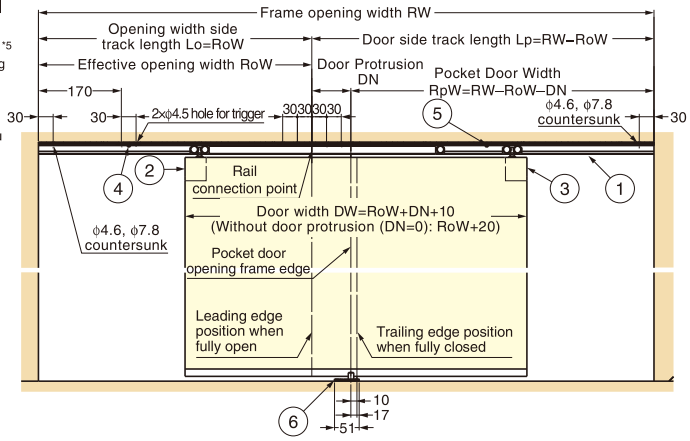


Cut Out Dimensions



Surface Mount | Recessed Mount

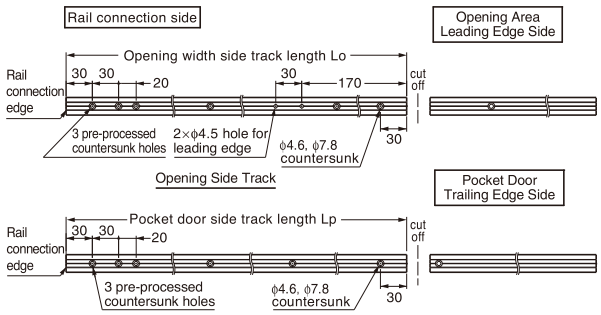




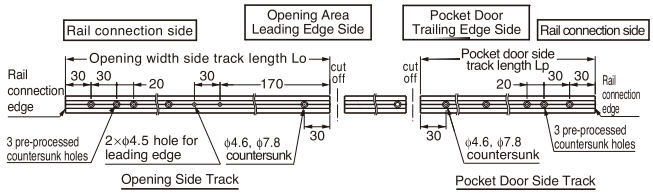
*2 Vertical adjustment. The gap between the upper track and the door can be adjusted within a range of -3 mm to +3 mm.
*3 The horizontal position of the door can be adjusted within a range of -2 mm or +2 mm from the end of the door.
*4 Recessed mount depth. If the surface is lined, account for the thickness of the material.
*5 If the surface is lined, account for the thickness of the material.

Pocket Door Mortising Dimensions

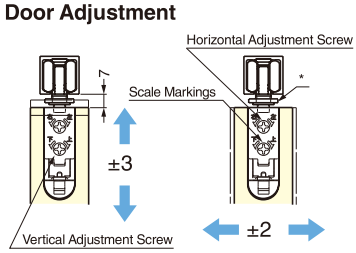
Track length 860 mm, 1260 mm (2 pcs)



Track length 1860 mm, 2760 mm, 3960 mm (1 pc)



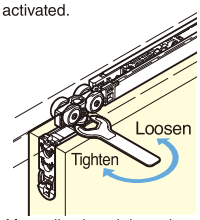
Door Adjustment



- Can be adjusted with one No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2), (5), and (6)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track

Included screws: Surface Mount - Cross-recessed flat head tapping screws 3.5 x 20
Recessed Mount - Cross-recessed flat head tapping screws 3.5 x 25

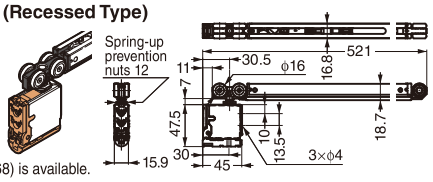
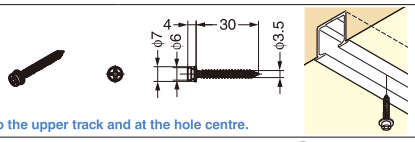
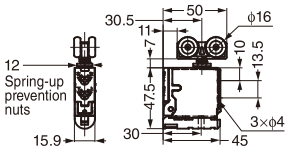
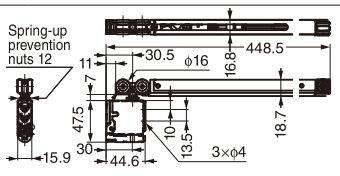
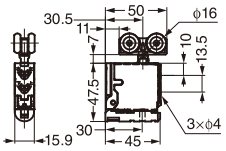
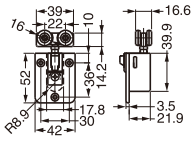
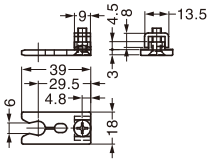
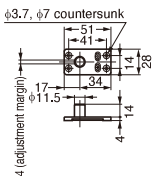
Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Surface Mount	860 mm	250-029-665 FD30-TRMP860-SL	250-029-670 FD30-TRMP860-UM	250-029-675 FD30-TRMP860-WT
	1260 mm	250-029-666 FD30-TRMP1260-SL	250-029-671 FD30-TRMP1260-UM	250-029-676 FD30-TRMP1260-WT
	1860 mm	250-029-667 FD30-TRMP1860-SL	250-029-672 FD30-TRMP1860-UM	250-029-677 FD30-TRMP1860-WT
	2760 mm	250-029-668 FD30-TRMP2760-SL	250-029-673 FD30-TRMP2760-UM	250-029-678 FD30-TRMP2760-WT
	3960 mm	250-029-669 FD30-TRMP3960-SL	250-029-674 FD30-TRMP3960-UM	250-029-679 FD30-TRMP3960-WT
Recessed Mount	860 mm	250-043-802 FD30-35EV-TRHP860-SL	250-043-807 FD30-35EV-TRHP860-UM	250-043-812 FD30-35EV-TRHP860-WT
	1260 mm	250-043-803 FD30-35EV-TRHP1260-SL	250-043-808 FD30-35EV-TRHP1260-UM	250-043-813 FD30-35EV-TRHP1260-WT
	1860 mm	250-043-804 FD30-35EV-TRHP1860-SL	250-043-809 FD30-35EV-TRHP1860-UM	250-043-814 FD30-35EV-TRHP1860-WT
	2760 mm	250-043-805 FD30-35EV-TRHP2760-SL	250-043-810 FD30-35EV-TRHP2760-UM	250-043-815 FD30-35EV-TRHP2760-WT
	3960 mm	250-043-806 FD30-35EV-TRHP3960-SL	250-043-811 FD30-35EV-TRHP3960-UM	250-043-816 FD30-35EV-TRHP3960-WT

When stock of the surface mount upper track runs out, the FD35SP (P.693) surface mount upper track will be included instead.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

PARTS TABLE

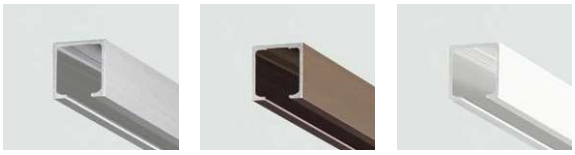
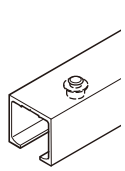
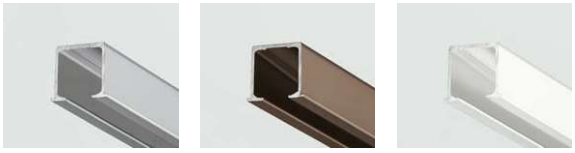
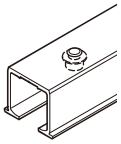
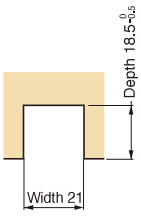
FD30EX·SP (P.644~P.659)

Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FD30EX·SP (P.644~P.659)	**Two-way Soft Closer (Recessed Type)** Vertical Adjustment ±3 Horizontal Adjustment ±2 With retrofit trigger and trigger mounting jig for Two-Way Soft Close and synchronized sliding door specifications. Dedicated machining jig (P.668) is available.		**Two-way soft closer features:** **- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** **- Bounce-Protection Nuts Included.** • Main material: Steel/Polyacetal (POM) • Finish: Chromate (trivalent)/Grey Included screws: Cross-recessed panhead tapping screws 3.5 × 30, 3 pcs		250-055-992 FD30SP-WRH-DSC
	Retrofit Trigger* *Included with Two-Way Damper and also available for individual purchase. Be sure to mount vertically to the upper track and at the hole centre.		**This trigger allows for using a two-way soft closer on the standard upper track.** **Track hole machining 4 holes.** • Material: Steel • Finish: Black chromate (trivalent)		250-052-630 FD25SP-30-TRG
	Jig* *Included with Two-Way Damper and also available for individual purchase. Read the precautions for installation (P.762~) for information on using this product.	–	**A jig set to mount the FD25SP retrofit trigger on the track.** **1 pc included with Two-Way Soft Closer.** • Material: Polyacetal (POM) • Colour: Orange		250-024-555 FD25SP-30-TRJ
	Spanner	–	**Use to tighten the hex heads of the bounce prevention nuts in the upper roller, Two-Way Soft Closer and Single Soft Closer. 1 pc included with Two-Way Soft Closer.** • Material: Steel • Finish: Chromate (trivalent)		250-052-629 FDSP-SP
	Upper Roller (for Two-Way Soft Closer) Vertical Adjustment ±3 Horizontal Adjustment ±2 Dedicated machining jig (P.668) is available.		**- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** **- Bounce-Protection Nuts Included.** • Material: Steel/Polyacetal (POM) • Finish: Chromate (trivalent)/Grey Included screws: Cross-recessed panhead tapping screws 3.5 × 30 3 pcs		250-055-996 FD30SP-WRH-N
	Single Soft Closer Vertical Adjustment ±3 Horizontal Adjustment ±2 Dedicated machining jig (P.668) is available.		**One-way soft closer features:** **- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** **- Bounce-Protection Nuts Included.** • Main material: Steel/Polyacetal (POM) • Finish: Chromate (trivalent)/Grey Included screws: Cross-recessed panhead tapping screws 3.5 × 30, 3 pcs		250-055-994 FD30SP-WRH-SC
	Spanner	–	**Use to tighten the hex heads of the bounce prevention nuts in the upper roller, Two-Way Soft Closer and Single Soft Closer. 1 pc included with Single Soft Closer.** • Material: Steel • Finish: Coloured chromate (trivalent)		250-052-629 FDSP-SP
	Upper Roller Vertical Adjustment ±3 Horizontal Adjustment ±2 Dedicated machining jig (P.668) is available.		**- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** • Material: Steel/Polyacetal (POM) • Finish: Coloured chromate (trivalent)/ Grey Included screws: Cross-recessed panhead tapping screws 3.5 × 30 3 pcs		250-055-995 FD30SP-WRH
	Side Mount Roller Vertical Adjustment ±4		**- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** • Material: Steel/Polyacetal (POM) • Finish: Coloured chromate (trivalent)/ Dark Brown Included screws: Cross-recessed binding head tapping screws 3.5 × 20, 3 pcs		250-017-142 FD30-WRU
	Upper Catch White Grey Dark Brown		**A upper catch to hold sliding doors closed.** • Material: Steel/Polyacetal (POM) • Finish: Coloured chromate/ White, grey, dark brown	White Grey Dark Brown	250-025-698 FD30-HTST-WT 250-019-970 FD30-HTST-GR 250-019-969 FD30-HTST-DB
	Lower Guide (with roller) White Light Brown Dark Brown		**A lower guide with a depth adjustment mechanism.** • Material: Steel/Polyamide (PA) • Finish: Coloured chromate/ White, light brown, dark brown Included screws: Cross-recessed flathead tapping screws 3.5 × 30, 4 pcs	White Light Brown Dark Brown	250-018-895 FD30-HBG-WT 250-017-151 FD30-HBG-LBR (Old Item Name: FD30-HBG) 250-018-896 FD30-HBG-DB

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SOFT CLOSE UPPER TRACK

An end plate to cover the end of the top rail and a cleaner to remove shavings left over after cutting the upper track are also available.

Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FD30SP (P.644~P.657)	**SOFT CLOSE UPPER TRACK (Surface mount)**	  Hole Pitch: Approx. 300 mm Pitch End: Approx. 30 mm **[Caution]** Do not cut the trigger end. This will cause the soft closing mechanism to stop working. If cut by accident, use the retrofit trigger	**A dedicated soft close trigger is installed for easy mounting. This surface mount upper track has a rail width of 20 mm.** • Material Aluminium alloy • Finish Silver: Silver anodized + coating/clear Amber: Amber anodized + coating/clear White: Anodized + coating/white Recommended Screw Size 3.5 x 25 cross-recessed flat head tapping screws	Silver	Length 1820 mm	**250-017-805** FD30-TRM1820SCSIL
					Length 2000 mm	**250-018-873** FD30-TRM2000SCSIL
					Length 2730 mm	**250-017-978** FD30-TRM2730SCSIL
					Length 3000 mm	**250-018-877** FD30-TRM3000SCSIL
					Length 3640 mm	**250-017-982** FD30-TRM3640SCSIL
					Length 4000 mm	**250-018-881** FD30-TRM4000SCSIL
				Amber	Length 1820 mm	**250-017-806** FD30-TRM1820SCUM
					Length 2000 mm	**250-018-874** FD30-TRM2000SCUM
					Length 2730 mm	**250-017-979** FD30-TRM2730SCUM
					Length 3000 mm	**250-018-878** FD30-TRM3000SCUM
					Length 3640 mm	**250-017-983** FD30-TRM3640SCUM
					Length 4000 mm	**250-018-882** FD30-TRM4000SCUM
				White	Length 1820 mm	**250-025-146** FD30-TRM1820SCWT
					Length 2730 mm	**250-025-148** FD30-TRM2730SCWT
					Length 3640 mm	**250-025-150** FD30-TRM3640SCWT
	SOFT CLOSE UPPER TRACK (Recessed mount)	  Hole Pitch: Approx. 300 mm Pitch End: Approx. 30 mm **[Caution]** Do not cut the trigger end. This will cause the soft closing mechanism to stop working. If cut by accident, use the retrofit trigger 	**A dedicated soft close trigger is installed for easy mounting. This recessed upper track has a rail width of 20 mm.** • Material Aluminium alloy • Finish Silver: Silver anodized + coating/clear Amber: Amber anodized + coating/clear White: Anodized + coating/white Recommended Screw Size 3.5 x 25 cross-recessed flat head tapping screws	Silver	Length 1820 mm	**250-017-807** FD30-TRH1820SCSIL
					Length 2000 mm	**250-018-875** FD30-TRH2000SCSIL
					Length 2730 mm	**250-017-980** FD30-TRH2730SCSIL
					Length 3000 mm	**250-018-879** FD30-TRH3000SCSIL
					Length 3640 mm	**250-017-984** FD30-TRH3640SCSIL
					Length 4000 mm	**250-018-883** FD30-TRH4000SCSIL
				Amber	Length 1820 mm	**250-017-808** FD30-TRH1820SCUM
					Length 2000 mm	**250-018-876** FD30-TRH2000SCUM
					Length 2730 mm	**250-017-981** FD30-TRH2730SCUM
					Length 3000 mm	**250-018-880** FD30-TRH3000SCUM
					Length 3640 mm	**250-017-985** FD30-TRH3640SCUM
					Length 4000 mm	**250-018-884** FD30-TRH4000SCUM
				White	Length 1820 mm	**250-025-147** FD30-TRH1820SCWT
					Length 2730 mm	**250-025-149** FD30-TRH2730SCWT
					Length 3640 mm	**250-025-151** FD30-TRH3640SCWT

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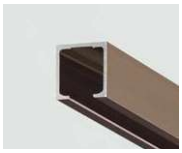
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

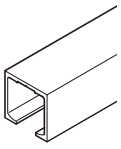
STANDARD UPPER TRACK

An end plate to cover the end of the top rail and a cleaner to remove shavings left over after cutting the upper track are also available.

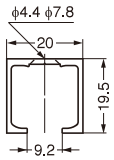
FD30EX-SP (P.648~P.659)

UPPER TRACK: STANDARD (Surface mount)

Hole Pitch: Approx. 300 mm
Pitch End: Approx. 30 mm



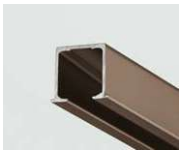
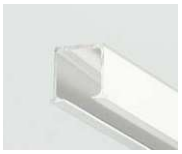
This surface mount upper track has a rail width of 20 mm.

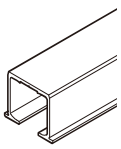
- Material
  Aluminium alloy
- Finish
  Silver:
  Silver anodized + coating/clear
  Amber:
  Amber anodized + coating/clear
  White:
  Anodized + coating/white

Recommended Screw
Size 3.5 x 25 cross-recessed flat head tapping screws

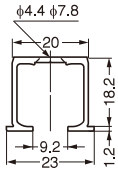
Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FD30EX-SP (P.648~P.659)	UPPER TRACK: STANDARD (Surface mount)		Silver	Length 1820 mm	250-017-131 FD30-TRM1820SIL
				Length 2000 mm	250-018-861 FD30-TRM2000SIL
				Length 2730 mm	250-017-966 FD30-TRM2730SIL
				Length 3000 mm	250-018-865 FD30-TRM3000SIL
				Length 3640 mm	250-017-970 FD30-TRM3640SIL
				Length 4000 mm	250-018-869 FD30-TRM4000SIL
			Amber	Length 1820 mm	250-017-132 FD30-TRM1820UM
				Length 2000 mm	250-018-862 FD30-TRM2000UM
				Length 2730 mm	250-017-967 FD30-TRM2730UM
				Length 3000 mm	250-018-866 FD30-TRM3000UM
				Length 3640 mm	250-017-971 FD30-TRM3640UM
				Length 4000 mm	250-018-870 FD30-TRM4000UM
			White	Length 1820 mm	250-025-154 FD30-TRM1820WT
				Length 2730 mm	250-025-156 FD30-TRM2730WT
				Length 3640 mm	250-025-158 FD30-TRM3640WT

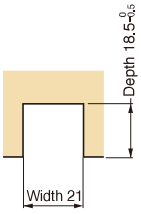
UPPER TRACK: STANDARD (Recessed mount)



Hole Pitch: Approx. 300 mm
Pitch End: Approx. 30 mm





This recessed upper track has a rail width of 20 mm.

- Material
  Aluminium alloy
- Finish
  Silver:
  Silver anodized + coating/clear
  Amber:
  Amber anodized + coating/clear
  White:
  Anodized + coating/white

Recommended Screw
Size 3.5 x 25 cross-recessed flat head tapping screws

Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
	UPPER TRACK: STANDARD (Recessed mount)		Silver	Length 1820 mm	250-017-133 FD30-TRH1820SIL
				Length 2000 mm	250-018-863 FD30-TRH2000SIL
				Length 2730 mm	250-017-968 FD30-TRH2730SIL
				Length 3000 mm	250-018-867 FD30-TRH3000SIL
				Length 3640 mm	250-017-972 FD30-TRH3640SIL
				Length 4000 mm	250-018-871 FD30-TRH4000SIL
			Amber	Length 1820 mm	250-017-134 FD30-TRH1820UM
				Length 2000 mm	250-018-864 FD30-TRH2000UM
				Length 2730 mm	250-017-969 FD30-TRH2730UM
				Length 3000 mm	250-018-868 FD30-TRH3000UM
				Length 3640 mm	250-017-973 FD30-TRH3640UM
				Length 4000 mm	250-018-872 FD30-TRH4000UM
			White	Length 1820 mm	250-025-155 FD30-TRH1820WT
				Length 2730 mm	250-025-157 FD30-TRH2730WT
				Length 3640 mm	250-025-159 FD30-TRH3640WT

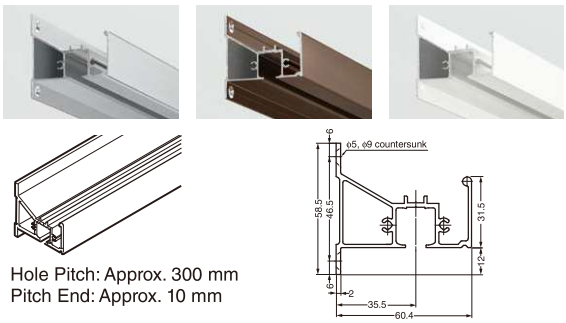
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
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DOOR DAMPERS
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OUTSET UPPER TRACK

A side cover to cover the end of the top rail and a cleaner to remove shavings left over after cutting the upper track are also available.

Compatible Products	Name	Dimensions	Mounting Example	Specifications			Item Code / Item Name
FD30SP (P.652, P.653)	OUTSET UPPER TRACK			• Material Aluminium alloy • Finish: Silver anodized + coating/clear Included screws Size 4 x 40 cross-recessed flat head tapping screws	Silver	Length 2120 mm	250-022-269 FD30-TRA2100SL
						Length 2720 mm	250-022-271 FD30-TRA2730SL
				• Material Aluminium alloy • Finish: Amber anodized + coating/clearIncluded screws Size 4 x 40 cross-recessed flat head tapping screws (antique copper finish)	Amber	Length 2120 mm	250-022-270 FD30-TRA2100UM
						Length 2720 mm	250-022-272 FD30-TRA2730UM
				• Material Aluminium alloy • Finish: Anodized + coating/white Included screws Size 4 x 40 cross-recessed flat head tapping screws (flat head: coating/white)	White	Length 2120 mm	250-025-172 FD30-TRA2100WT
						Length 2720 mm	250-025-173 FD30-TRA2730WT

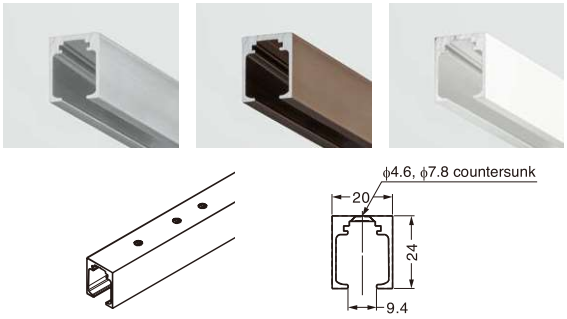


Hole Pitch: Approx. 300 mm
Pitch End: Approx. 10 mm

POCKET DOOR UPPER TRACK

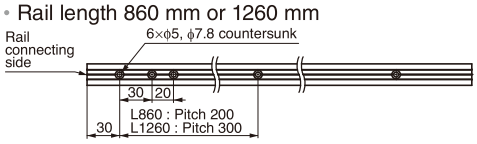
A cleaner to remove shavings left over after cutting the upper track is also available.

Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FD30SP (P.658, P.659)	POCKET DOOR UPPER TRACK (Surface mount)		• Material Aluminium alloy • Finish Silver anodized + coating/clear Included screws Size 3.5 x 25 cross-recessed flat head tapping screws (chromate finish (trivalent))	Silver	Length 860 mm	250-029-665 FD30-TRMP860-SL
					Length 1260 mm	250-029-666 FD30-TRMP1260-SL
					Length 1860 mm	250-029-667 FD30-TRMP1860-SL
					Length 2760 mm	250-029-668 FD30-TRMP2760-SL
					Length 3960 mm	250-029-669 FD30-TRMP3960-SL
			• Material Aluminium alloy • Finish Amber anodized + coating/clear Included screws Size 3.5 x 20 cross-recessed flat head tapping screws (antique copper finish)	Amber	Length 860 mm	250-029-670 FD30-TRMP860-UM
					Length 1260 mm	250-029-671 FD30-TRMP1260-UM
					Length 1860 mm	250-029-672 FD30-TRMP1860-UM
					Length 2760 mm	250-029-673 FD30-TRMP2760-UM
					Length 3960 mm	250-029-674 FD30-TRMP3960-UM
			• Material Aluminium alloy • Finish Anodized + coating/white Included screws Size 3.5 x 20 cross-recessed flat head tapping screws (flat head: coating/white)	White	Length 860 mm	250-029-675 FD30-TRMP860-WT
					Length 1260 mm	250-029-676 FD30-TRMP1260-WT
					Length 1860 mm	250-029-677 FD30-TRMP1860-WT
					Length 2760 mm	250-029-678 FD30-TRMP2760-WT
					Length 3960 mm	250-029-679 FD30-TRMP3960-WT
	POCKET DOOR UPPER TRACK (Recessed mount)		• Material Aluminium alloy • Finish Silver anodized + coating/clear Included screws Size 3.5 x 25 cross-recessed flat head tapping screws (chromate finish (trivalent))	Silver	Length 860 mm	250-043-802 FD30-35EV-TRHP860-SL
					Length 1260 mm	250-043-803 FD30-35EV-TRHP1260-SL
					Length 1860 mm	250-043-804 FD30-35EV-TRHP1860-SL
					Length 2760 mm	250-043-805 FD30-35EV-TRHP2760-SL
					Length 3960 mm	250-043-806 FD30-35EV-TRHP3960-SL
			• Material Aluminium alloy • Finish Amber anodized + coating/clear Included screws Size 3.5 x 25 cross-recessed flat head tapping screws (antique copper finish)	Amber	Length 860 mm	250-043-807 FD30-35EV-TRHP860-UM
					Length 1260 mm	250-043-808 FD30-35EV-TRHP1260-UM
					Length 1860 mm	250-043-809 FD30-35EV-TRHP1860-UM
					Length 2760 mm	250-043-810 FD30-35EV-TRHP2760-UM
					Length 3960 mm	250-043-811 FD30-35EV-TRHP3960-UM
			• Material Aluminium alloy • Finish Anodized + coating/white Included screws Size 3.5 x 25 cross-recessed flat head tapping screws (flat head: coating/white)	White	Length 860 mm	250-043-812 FD30-35EV-TRHP860-WT
					Length 1260 mm	250-043-813 FD30-35EV-TRHP1260-WT
					Length 1860 mm	250-043-814 FD30-35EV-TRHP1860-WT
					Length 2760 mm	250-043-815 FD30-35EV-TRHP2760-WT
					Length 3960 mm	250-043-816 FD30-35EV-TRHP3960-WT

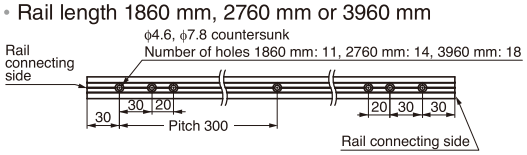


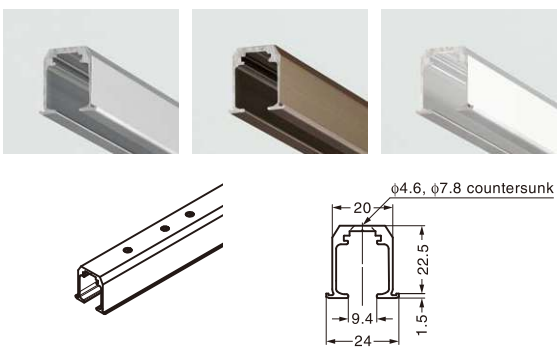
See the Pocket Door Upper Track Dimensions for details such as the hole size.

• Rail length 860 mm or 1260 mm



• Rail length 1860 mm, 2760 mm or 3960 mm



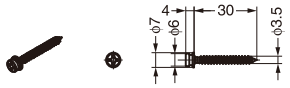
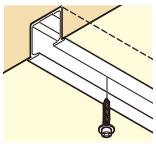
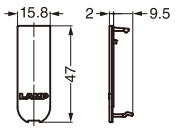
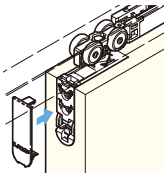
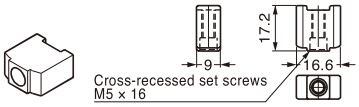
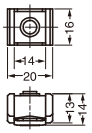
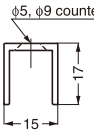
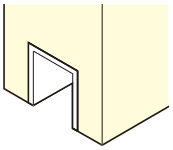
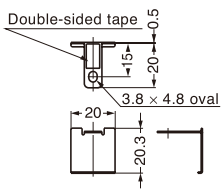
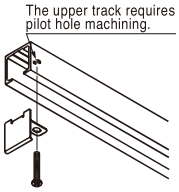
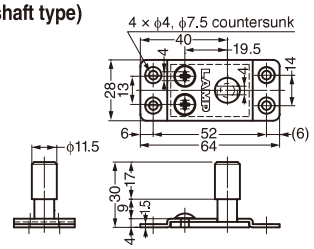
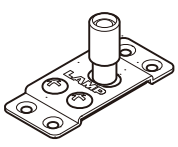


*The dimensions are the same as the surface-mount type.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

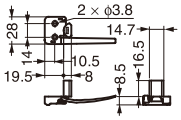
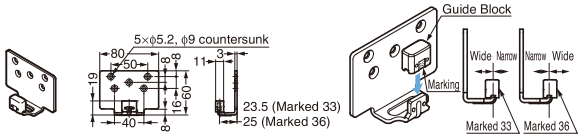
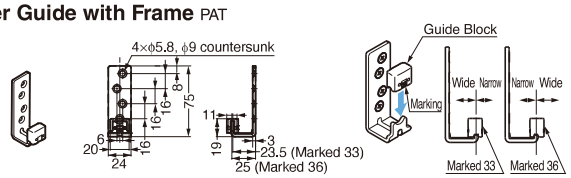
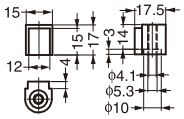
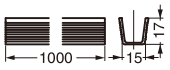
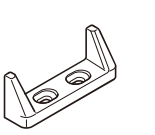
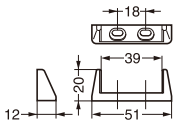
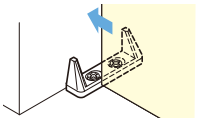
OPTIONAL PARTS

FD30EX-SP (P.644~P.659)

Compatible Products	Name	Dimensions	Mounting Example	Specifications		Item Code / Item Name
FD30EX-SP (P.644~P.659)	**Retrofit Trigger (Black)** Be sure to mount vertically to the upper track and at the hole centre. When mounting the retrofit trigger, use the dedicated trigger mounting jig (P.668).			**Trigger used when retrofitting the Two-Way Soft Closer.** **Track hole machining ϕ4 holes.** • Material: Steel • Finish: Black chromate (trivalent)		250-052-630 FD25SP-30-TRG
	Upper Roller Cover Cap White Light Brown Dark Brown Black			**Cover cap for upper roller.** • Material: Polypropylene (PP) • Colour: White, light brown, dark brown, black	White Light Brown Dark Brown Black	250-052-632 FDSP-WRH-CP-WT 250-052-633 FDSP-WRH-CP-LBR 250-052-634 FDSP-WRH-CP-DBR 250-056-482 FDSP-WRH-CP-BL
	Stopper Block			**Door stopper assembled into upper track. This stops the upper roller at a suitable position and prevents the door from coming off the lower guide.** • Material: Polyacetal (POM) • Colour: Dark Brown		250-017-139 FD30-HSB
	Bumper Block (synchronized/outset)			**A bumper used for outset and synchronized sliding door specifications.** • Main material: Steel/Ethylene propylene rubber (EPDM) • Finish: Chromate/Black		250-022-265 FD30-HBB
	Embedded Lower Guide Track This can be used for other FD series models.			**Embedded lower guide rail.** • Material: Aluminium alloy • Finish: Silver anodized + coating/Clear	Length 1000 mm Length 1500 mm	250-021-996 FD30-HBRT1000SIL 250-019-971 FD30-HBRT1500SIL
	End Plate for Upper Track Silver Amber White			**A cover to conceal the end of the FD30EX-SP Upper Track (P.661, P.662).** **Also used to hide the machined end of the upper frame groove in recessed mounting.** **Caution: Cannot be used as a stopper for the upper track end.** • Material: Steel • Finish: Baked acrylic finish Included screws: Cross-recessed panhead tapping screws 3 × 20	Silver Amber White	250-029-710 FD30-TREP-SL 250-029-711 FD30-TREP-UM 250-029-712 FD30-TREP-WT
	Lower Guide with Roller (long shaft type)			**Use when space under the door is required.** • Material: Stainless Steel/ Polyacetal (POM) • Finish: Polished Included screws: Cross-recessed flathead tapping screws 3.5 × 30 (stainless steel), 4 pcs		250-024-547 FD30-HBGH

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

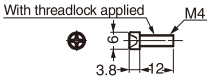
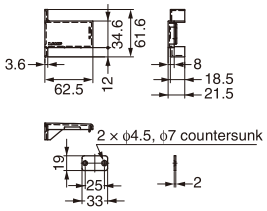
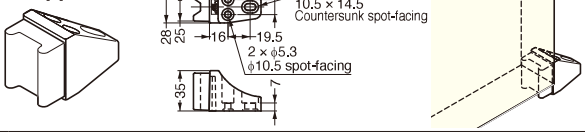
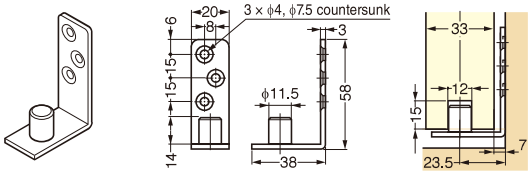
PARTS FOR SYNCHRO MODEL

Compatible Products	Name	Dimensions	Mounting Example	Specifications	Item Code / Item Name
FD30SP (P.654~P.657)	**Lower Guide Receiver for Sliding Doors** With stopper plate			**Guide receiver mounted on the bottom of interlocking sliding doors.** • Main material: Stainless steel (SUS304)/Polyacetal (POM) • Finish: Barrel polished/Gray 1 set: Left/right 1 each	**250-022-261** **FD30-HRGU**
	Door-mount Lower Guide PAT			**Guide mounted on the driven door of interlocking sliding doors. Supports two types of door thickness, as the block orientation can be changed by 180° in assembly.** Door thickness 30 to 34 mm: Imprint 33 Door thickness 35 to 38 mm: Imprint 36 • Main material: Stainless steel (SUS304)/Polyacetal (POM) • Finish: Barrel polished/Gray	**250-022-262** **FD30-HRDG**
	Lower Guide with Frame PAT			**Guide with frame which moves the driven door of interlocking sliding doors. Supports two types of door thickness, as the block orientation can be changed by 180° in assembly.** Door thickness 30 to 34 mm: Imprint 33 Door thickness 35 to 38 mm: Imprint 36 • Main material: Stainless steel (SUS304)/Polyacetal (POM) • Finish: Barrel polished/Gray	**250-022-263** **FD30-HBGF**
	Lower Guide Block for Interlocking Doors			**Lower guide block for interlocking sliding doors.** • Main material: Ethylene propylene rubber (EPDM) • Colour: Black	**250-022-264** **FD30-HRDB**
	Recessed Lower Guide Track (1000 mm)			**This guide track is used to be recessed in the floor.** • Main Material: ABS Resin • Color: Black	**250-022-266** **FD30-HBDR1000**
	Options **Leading Edge Vibration Stopper**	 	Applicable Door Thickness 36 mm or less 	**Door leading edge vibration stopper.** • Material: Polyamide (PA) • Colour: Light brown Included screws: Cross-recessed flathead tapping screws 3.5 × 25, 2 pcs	**250-017-157** **FD30-HTF**

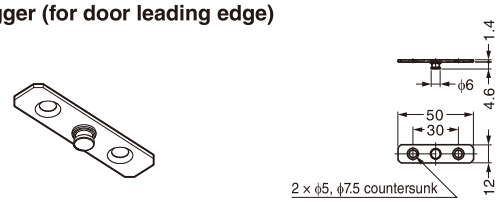
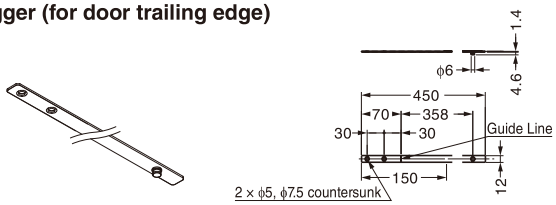
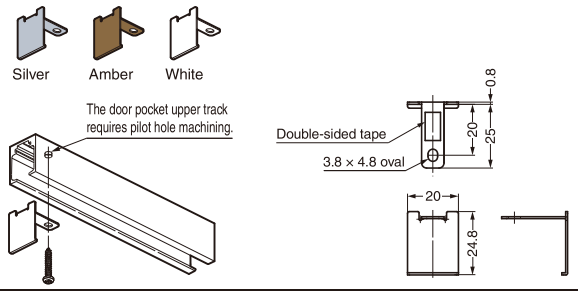
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HES CONCEALED HINGES
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DOOR DAMPERS
DOOR STOPPERS
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PARTS FOR OUTSET MODEL

Compatible Products	Name	Dimensions	Mounting Example	Specifications		Item Code / Item Name
FD30SP (P.652, P.653)	**Trigger for Outset**			**Dedicated trigger for outset specifications.** • Main material: Steel • Finish: Chromate 2 pcs, with M4 nuts		250-022-274 FD30-HATG
	Side Cover PAT			**Cover for outset upper track** • Material: Steel/ABS resin • Finish/Colour: Chromate finish/grey, brown, white Included screws: Size 4 x 25 crossrecessed flat head S-Tite screws (flat head ϕ6) (4 pcs)	Grey (1 pc. each for left and right)	250-022-273 FD30-HASC-GR
					Brown (1 pc. each for left and right)	250-022-449 FD30-HASC-BR
					White (1 pc. each for left and right)	250-025-640 FD30-HASC-WT
	Floor-mount Door Stopper			**Prevents the door from hitting the frame.** • Material: Zinc alloy/Rubber • Finish: Silver coating/Black Included screws: Cross-recessed binding head tapping screws 4 × 30, 3 pcs		250-018-497 FD30-HTKY
	Options **Wall-mount Lower Guide (with roller)**			**This wall-mount guide should be used when the floormount lower guide cannot be installed.** Caution: For wall-mounting only. Use frames or stoppers to keep the door in the track. • Material: Steel/Polyacetal (POM) • Finish: Coloured chromate/Light Brown Included screws: Cross-recessed flathead tapping screws 3.5 × 30, 3 pcs		250-019-968 FD30-HBGK

PARTS FOR POCKET DOOR MODEL

Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FD30SP (P.658, P.659)	**Trigger (for door leading edge)**		• Material: Steel • Finish: Coloured chromate (trivalent), Black chromate (trivalent)		250-029-705 FD30-TRGPF
	Trigger (for door trailing edge)		• Material: Steel • Finish: Coloured chromate (trivalent), Black chromate (trivalent) Included screws: Cross-recessed flathead tapping screws 4 × 30		250-029-704 FD30-TRGPB
	Options **End Plate for Door Pocket Upper Track**		**A cover concealing the end of the FD30EX Dedicated Door Pocket Upper Track (surface mount/recessed mount: P.663).** • Material: Steel (SECC) • Finish: Baked acrylic coating Included screws: Cross-recessed panhead tapping screws 3.5 × 20 Caution: Unlike the Soft Closer, there is no mechanical function which reduces speed and draws the door in until it closes fully. The door must be closed manually.	Silver	250-044-999 FD30-35EV-TRPEP-SL
				Amber	250-045-000 FD30-35EV-TRPEP-UM
				White	250-045-001 FD30-35EV-TRPEP-WT

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DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

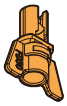
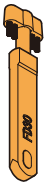
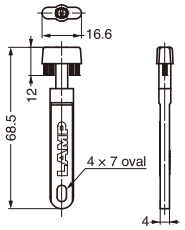
LOWER GUIDE PARTS

The guide pin floats up from the floor only when the sliding door passes. Anti-vibration magnetic lower guides (FD30-MG) are also available.

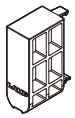
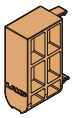
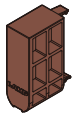
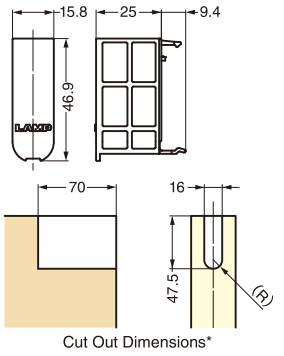
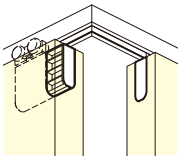
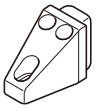
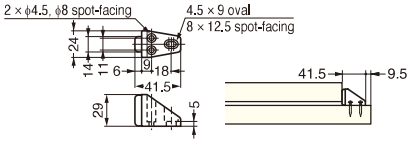
Compatible Products	Name	Dimensions	Mounting Example	Specifications			Item Code / Item Name
FD30EX·SP (P.644~P.659)	Lower Guide Track	**Lower Track (for recessed mount)**		**Recessed lower track mounted into the floor.** • Material Aluminium Alloy • Finish Silver: Silver Anodized + Coating/Clear Amber: Amber Anodized + Coating/Clear White: Anodized + Coating/White Included Screws: Cross-recessed flathead tapping screws 3.5 × 25 (head diameter ϕ6)	Silver	Length 910 mm	250-018-086 *FD30-HBR910SIL
						Length 1820 mm	250-017-148 FD30-HBR1820SIL
						Length 2730 mm	250-018-088 FD30-HBR2730SIL
						Length 3640 mm	250-018-090 FD30-HBR3640SIL
					Amber	Length 910 mm	250-018-087 *FD30-HBR910UM
						Length 1820 mm	250-017-149 *FD30-HBR1820UM
						Length 2730 mm	250-018-089 *FD30-HBR2730UM
						Length 3640 mm	250-018-091 *FD30-HBR3640UM
	Compatible Lower Guide	**Lower Guide (for surface mount)**		**Lower guide surface-mounted under the door.** • Material: Steel/Polyacetal (POM) • Colour: Dark Brown Included screws: Cross-recessed flathead tapping screws 3.5 × 20 2 pcs			250-017-152 FD30-HGM
		Lower Guide (end surface mounting)		**Lower guide mounted into the bottom of the door.** • Material: Polyamide (PA)/ Polyacetal (POM) • Colour: Light Brown Included screws: Cross-recessed flathead tapping screws 3.5 × 35 1 pc			250-017-153 FD30-HGK
		Lower Guide (bottom mounting) Guide Part * Cannot be used with the soft close function.		**Lower guide mounted into the bottom of the door. The spring structure of the guide aids with uneven oor surfaces.** • Material: Polyacetal (POM) • Colour: Light Brown Included screws: Cross-recessed flathead tapping screws 3.5 × 30 2 pcs			250-017-154 FD30-HGR
		Lower Guide (single sliding doors) * Compatible door thickness requires 10 mm clearance between the floor and the door (catalogue set value).		**Lower guide for single sliding doors.** • Material: Polyamide (PA) • Colour: Light Brown Included Screws Cross-recessed panhead tapping screws 3.5 × 30 1 pc Cross-recessed flathead tapping screws 3.5 × 30 1 pc			250-017-155 FD30-HGS
		Lower Guide (sliding doors) * Compatible door thickness requires 10 mm clearance between the floor and the door (catalogue set value).		**Lower guide for sliding doors.** • Material: Polyamide (PA) • Colour: Light Brown Included Screws Cross-recessed panhead tapping screws 3.5 × 30 3 pcs			250-017-156 FD30-HGW

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DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

JIG TOOLS

Compatible Products	Name	Dimensions	Specifications	Item Code / Item Name
FD30EX·SP (P.644~P.659)	**Jig** Read the precautions for installation for information on using this product.		**A jig set to mount the FD30EX·SP retro-fit trigger on the track.** • Material: Polyacetal (POM) • Colour: Orange	250-024-555 FD25SP-30-TRJ
	Cleaner for Upper Track *This optional part is common for FD30EX,FD30SP, and FD35EV.	 	**A brush for cleaning debris from the FD30EX·SP upper track , such as shavings left over after cutting.** • Material: Polypropylene (PP)/ Polyamide (PA) • Colour: Orange	250-025-992 FD30-TRC
	Machining Jig Tool for FD30EX·SP	 –	**A machining jig tool for FD30EX·SP recessed end mounting.** **Recessed machining using a router can be done easily.** **The use of methacrylic resin enables repeated use.** • Material: Methacrylic resin (PMMA) • Colour: Clear	250-024-567 FD30-WRH-N-TMP

OTHER OPTION

Compatible Products	Name	Dimensions	Mounting Example	Specifications		Item Code / Item Name
FD30SP (P.644~P.659)	**Spacer Cap (for 90° Convex Corners)** White  Light Brown  Dark Brown  Black  *In combination with Upper Roller FD30SP-WRH	 Cut Out Dimensions*		**This spacer creates distance between the door end and the roller, enabling the door to fit in a 90° convex corner.** **Caution: Be sure to use with the Soft Closer.** • Material: Polypropylene (PP) • Colour: White, light brown, dark brown, black	White	250-056-038 FDSP-WRH-SCP25-WT
					Light Brown	250-056-039 FDSP-WRH-SCP25-LBR
					Dark Brown	250-056-040 FDSP-WRH-SCP25-DBR
					Black	250-056-041 FDSP-WRH-SCP25-BL
	Stopper for sliding doors (for door mounting) 			**Door stopper for mounting on double sliding doors.** • Material: Polyamide (PA)/Rubber • Colour: Light brown Included screws: Cross-recessed binding head tapping screws 3.5 × 25, 3 pcs		250-017-150 FD30-HTK

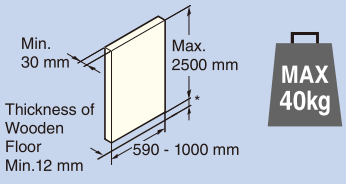
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LAMP. MAGNET BOTTOM GUIDE FD30-MG PAT

Latest Info

- Anti-vibration lower guide in which the floor guide pin floats up due to magnetic force only when the sliding door passes.
- Stays out of the way when the door is open, metal and screw-mounted to maintain strength. Adjustable horizontally by ±4 mm. Select from 3 colours to suit the floor colour.

Door Size (per door)



Adjustment

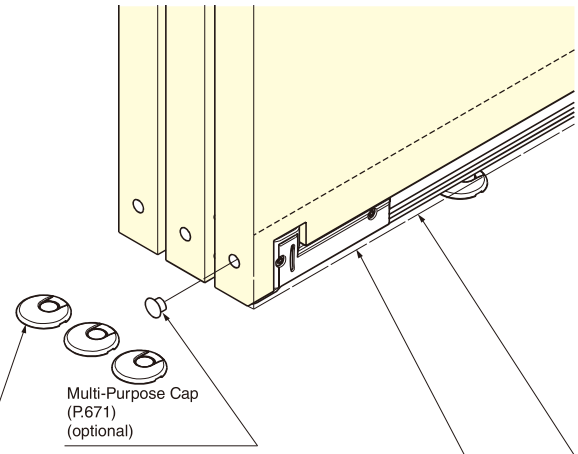
Distance between floor and door*: 10±4 mm

Lower guide pin position: Horizontal Adjustment ±4 mm

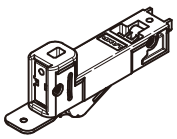
(1) Lower Guide Pin



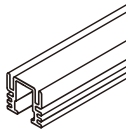




Features an automatic adjustment function to optimise magnet height. It is designed to enhance aesthetic appeal without cutting into the door's surface. (P.670)



(2) Magnet Guide Strike



(3) Lower Guide Rail

Optional parts for FDPN40P, FD30SP, FD30EX. (P.586~P.593, P.644~P.659)

INSTRUCTION | SCREW

Remarks

- Be sure to read the Precautions for this product. (P.768)
- This product is designed for general residential use. Do not use in public facilities, etc.

Feature

Installation

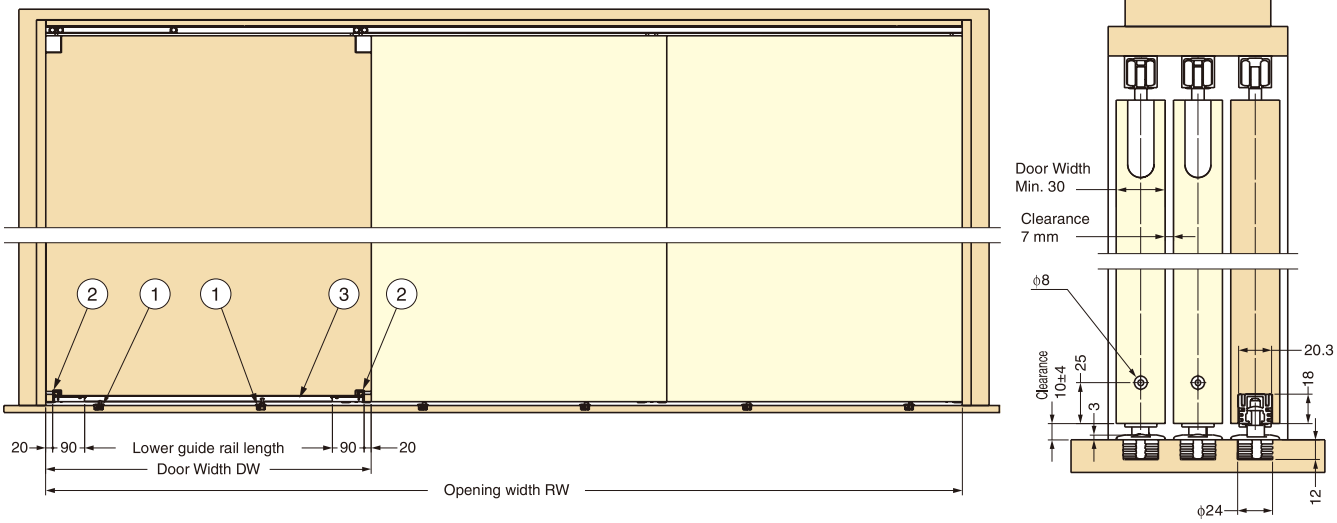
Standard Parts List Please refer to "Required Parts" for parts included in each set. (P.671)

Parts Item Code Item Name	Item Code	Item Name	(1) Lower Guide Pin Light Grey 250-029-828 FD30-MGFP-LGR	(1) Lower Guide Pin Light Brown 250-029-829 FD30-MGFP-LBR	(1) Lower Guide Pin Dark Brown 250-029-830 FD30-MGFP-DBR	(2) Magnet Guide Strike (2 pcs) 250-026-500 FD30-MGDB	(3) Lower Guide Rail 250-026-501 FD30-MGDR1000	(4) Spanner For adjustment. Other tools available. (P.671) 250-022-252 FD80-HHSP
Single Sliding	250-028-800	FD30-MG1HKP-LGR	4 pcs	–	–	1 set	1 pc	1 pc
	250-028-801	FD30-MG1HKP-LBR	–	4 pcs				
	250-028-802	FD30-MG1HKP-DBR		–	4 pcs			
Double Sliding	250-027-156	FD30-MG2HCP-LGR	8 pcs	–	–	2 sets	2 pcs	1 pc
	250-027-157	FD30-MG2HCP-LBR	–	8 pcs				
	250-027-158	FD30-MG2HCP-DBR		–	8 pcs			
2-Door Sliding	250-027-159	FD30-MG2HKP-LGR	10 pcs	–	–	2 sets	2 pcs	1 pc
	250-027-160	FD30-MG2HKP-LBR	–	10 pcs				
	250-027-161	FD30-MG2HKP-DBR		–	10 pcs			
Triple Sliding	250-027-162	FD30-MG3HCP-LGR	18 pcs	–	–	3 sets	3 pcs	1 pc
	250-027-163	FD30-MG3HCP-LBR	–	18 pcs				
	250-027-164	FD30-MG3HCP-DBR		–	18 pcs			
3-Door Sliding	250-027-165	FD30-MG3HKP-LGR	18 pcs	–	–	3 sets	3 pcs	1 pc
	250-027-166	FD30-MG3HKP-LBR	–	18 pcs				
	250-027-167	FD30-MG3HKP-DBR		–	18 pcs			
4-Door Sliding	250-027-168	FD30-MG4HWP-LGR	16 pcs	–	–	4 sets	4 pcs	1 pc
	250-027-169	FD30-MG4HWP-LBR	–	16 pcs				
	250-027-170	FD30-MG4HWP-DBR		–	16 pcs			

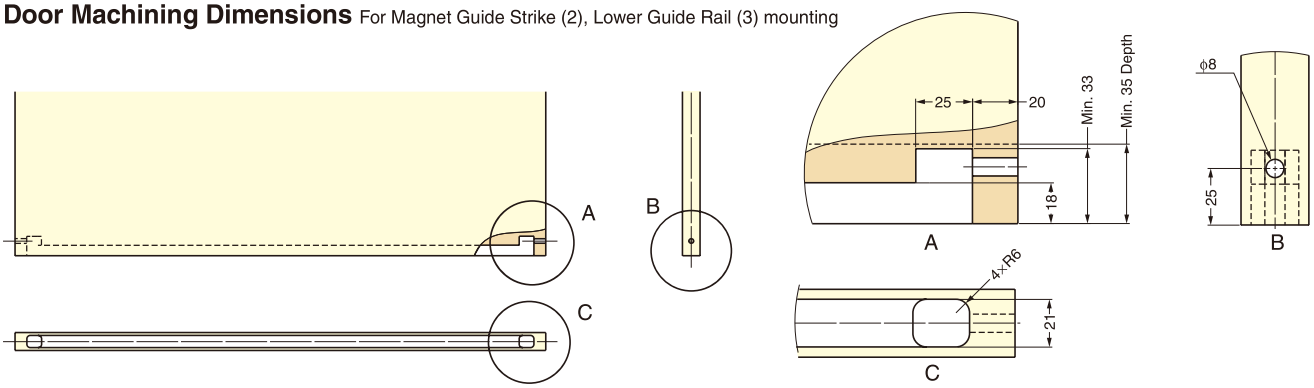
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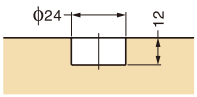
Installation Dimensions 3-Door Overlapping Specification



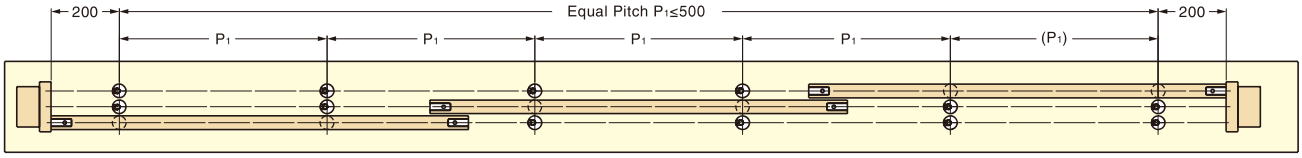
Door Machining Dimensions For Magnet Guide Strike (2), Lower Guide Rail (3) mounting



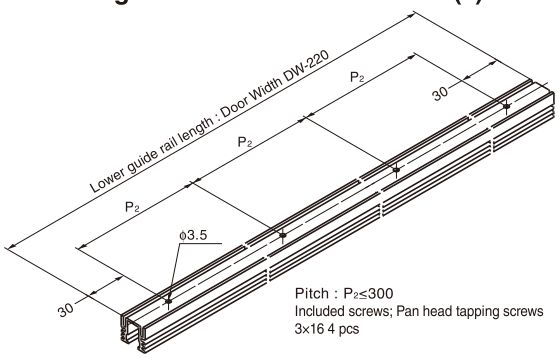
Floor Machining Dimensions For Lower Guide Pin (1) mounting



*Drill a ϕ24 hole vertically and as accurately as possible. After drilling the holes, remove chips to prevent issues with installation and proper door functionality.



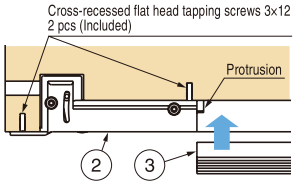
Processing Holes of Lower Guide Rail (3)



· Provide screw holes, with the pitch less than 300 mm
· At 30 mm from both ends of rail, provide 3.5 mm dia. hole with drill
*Make sure that the track does not deform when cut. After cutting, remove metal scraps and debris from the rail to ensure proper installation and function.

Part Mounting to Door

Assemble the magnet guide strike (2) on both ends of the door bottom surface. Fit the dimples over the magnet guide strike (2) protrusions to assemble the lower guide track (3).

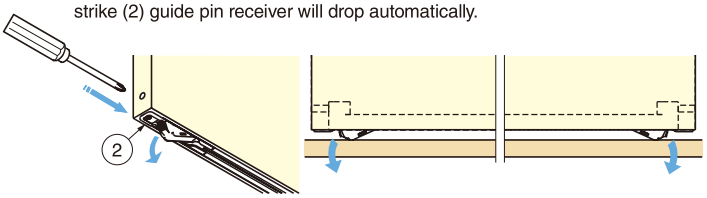


*Be careful to avoid level differences or misalignment at the joint of the magnet guide strike (2) and the lower guide track (3); mount using the included screws.

Height Setting of Magnet Guide Strike (2)

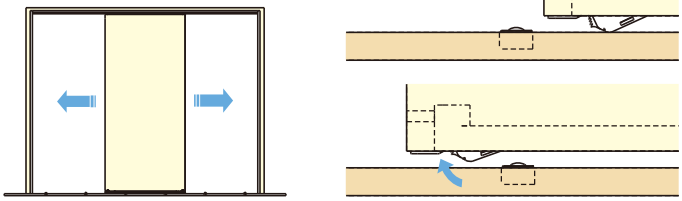
1. Lower the guide pin receiver

Insert a screwdriver, etc. into the hole on the door bottom edge and press the magnet guide strike (2) button. When the button is pressed, the magnet guide strike (2) guide pin receiver will drop automatically.



2. Slide door for automatic setting

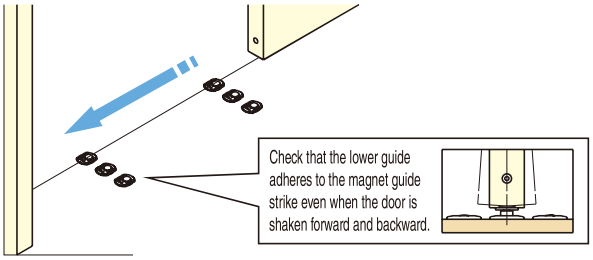
Slide the door slowly over the floor lower guide pin (1). When the magnet guide strike (2) guide pin receiver passes the lower guide pin (1), the guide pin receiver height position will be automatically set (**magnetic height automatic set function**).



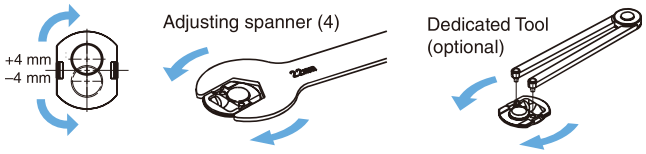
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Check Lower Guide Operation

Slide the door slowly over the floor lower guide pin (1) to check that the lower guide is operating correctly.



If the lower guide pin (1) is not pushed in correctly or the door sways in use, use the adjusting spanner (4) or a dedicated tool (optional) to adjust the lower guide pin (1) body orientation.

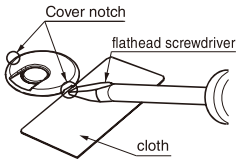


Fixing Lower Guide Pin (1)

After adjusting the orientation of the lower guide pin (1), fix it to the floor with the 2 included cross-recessed pan head tapping screws (3 x 14). After fixing with screws, snap on the lower guide pin (1) cover.

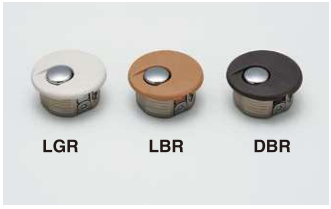
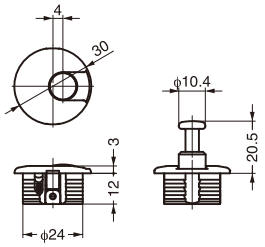
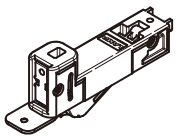
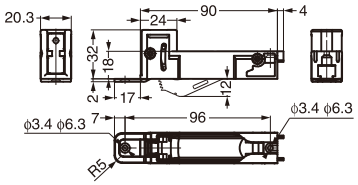
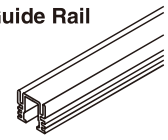
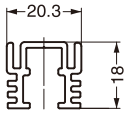


How to remove cover

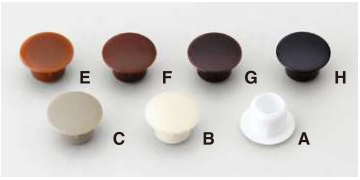
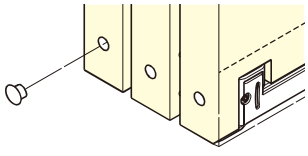
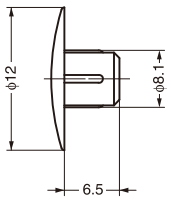
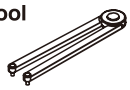
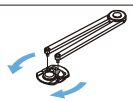


When removing the cover, fit a flathead screwdriver into the cover notches on both sides.
*Use protective cloth to prevent damage to the floor.

Required Parts

Part Name	Dimensions	Description		Item Code / Item Name
Lower Guide Pin 		**Anti-vibration lower guide for top mounted sliding doors. Guides the door via magnetic force. Mounted recessed into the floor surface.** • Material: Polyacetal (POM) /Steel/Zinc Alloy (ZDC) • Finish: Light Grey, Light Brown, Dark Brown Chrome/Nickel Included screws: pan head tapping screws 3×14 2 pcs	Light Grey	250-029-828 FD30-MGFP-LGR
			Light Brown	250-029-829 FD30-MGFP-LBR
			Dark Brown	250-029-830 FD30-MGFP-DBR
Magnet Guide Strike 		**Lower guide receiver. Attracts the guide pin with magnetic force. Mounted recessed into the door bottom end surface. 2 pcs included.** • Material: Polyacetal (POM) /Neodym • Finish: Grey/Nickel Included screws: Cross-recessed flat head tapping screws 3×12 2 pcs		250-026-500 FD30-MGDB
Lower Guide Rail 		**Lower guide receiving rail. Mounted recessed into the door bottom end surface.** • Material: ABS • Colour: Grey Included screws: pan head tapping screws 3×16 4 pcs	Length 1000 mm	250-026-501 FD30-MGDR1000
Spanner 	–	**Tool for adjusting lower guide pin orientation.** • Material: Steel • Finish: Chromate		250-022-252 FD80-HHSP

Options

Part Name	Dimensions	Description			Item Code / Item Name
Multi-Purpose Cap  		**Cap blocking machining hole on door bottom edge** • Material: Polypropylene (PP) • Colour: See text at right	A	White	120-041-060 KD-771-65W
			B	Ivory	120-041-065 KD-771-65I
			C	Grey	120-041-066 KD-771-65GR
			E	Camel	120-041-063 KD-771-65RBR
			F	Dark Brown	120-041-062 KD-771-65DBR
			G	Brown	120-041-061 KD-771-65BR
			H	Black	120-041-064 KD-771-65B
Dedicated Tool 		**Tool for adjusting lower guide pin orientation. Because the tool is rotated at a position slightly up off the floor, the floor will not be damaged.**			270-180-388 Z059

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD35SP Two-way Damper / Recessed Upper Roller NEW

Latest Info

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SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

- Two-way soft-close model of FD35SP.
- Upgraded for easier installation.

Passed Private 300K Cycle Test

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	Minimum 24 mm Maximum 2700 mm MAX 35kg 10 kg or more recommended Door Height Max.2400 mm : 590 - 1200 mm Door Height Max.2401 - 2700 mm : 700 - 1200 mm	±4 mm ±2 mm

2-Stage

Soft closing starts at approx. 100 mm for reliable operation

Soft opening With Sequential Double Damper in two stages enables less force to be used when opening too (compared to FD30).

1-Stage

Damper in the opening direction slows down

from around 50 mm on trailing edge side.

One-touch hanging of door

With Sequential Double Damper

(Leading edge only)

(3) Two-Way Soft Closer

Trigger Installation Jig (included with (3))

❷ Remove the casing.

❶ Lower the release lever.

The large lever makes operation easy.

- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.

Built-in trigger Easy installation Only 20 mm wide compact design

(1) Soft Close Upper Track

To shorten the upper track, cut the end without the trigger.

Black colour is available. For details, see the Parts Table (P.692).

2-Stage Two-Way Soft Close 1-Stage

Compatible with doors as narrow as 590 mm.

(6) Lower Guide (with Roller)

INSTRUCTION

Remarks

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

(4) Retrofit Trigger

One-touch hanging of door

(5) Upper Roller (compatible with recessed type two-way soft close)

Details of essential parts and options (e.g. door stopper, decorative caps for upper rollers, etc.) (P.690~)

Standard part list

See «Type of Upper Track» for details on the type of upper track used for (1) and (2).

Upgraded parts

Parts	Required Parts (Option 1 or 2)		Required Parts						Optional Parts
	(1) Soft Close Upper Track (Surface Mount / Recessed Mount)	(2) Upper Track (Surface Mount / Recessed Mount)	(3) Two-Way Soft Close*1	(4) Retrofit Trigger	(5) Upper Roller (compatible with recessed type two-way soft close)	(6) Lower Guide (with Roller)	(7) Bumper Block	(8) Retrofit Trigger	(9) Embedded Lower Guide Rail
Item Code Item Name	Select surface or recessed mount	Select surface or recessed mount	250-055-997 FD35SP-WRH-DSC	Included with Two-Way Soft Close	250-055-999 FD35SP-WRH-N	250-029-718 FD50-BGR18	250-034-114 FD35EV-HBB-GR	250-056-252 FD35SP-TRG-SL	250-019-971 FD30-HBRT1500SIL
Single Sliding Door System	1820 mm x 1 pc	–	1 pc	1 pc	1 pc	1 pc	–	–	(1 pc)
Overlapping Sliding Doors System	1820 mm x 2 pcs	–	2 pcs	2 pcs	2 pcs	2 pcs	–	–	(2 pcs)
Opposite Opening Sliding Doors System	–	3640 mm x 1 pc	2 pcs	2 pcs	2 pcs	2 pcs	1 pc	2 pcs	(2 pcs)

Parts Set
Item Code: 250-056-229
Item Name: FD35SPDHCP
× 2

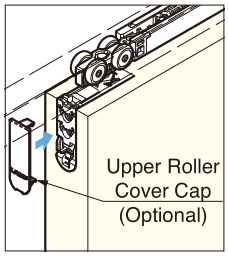
*1 Includes Retrofit Trigger (4), Trigger Installation Jig and spanner. Can also be purchased separately. (P.690)

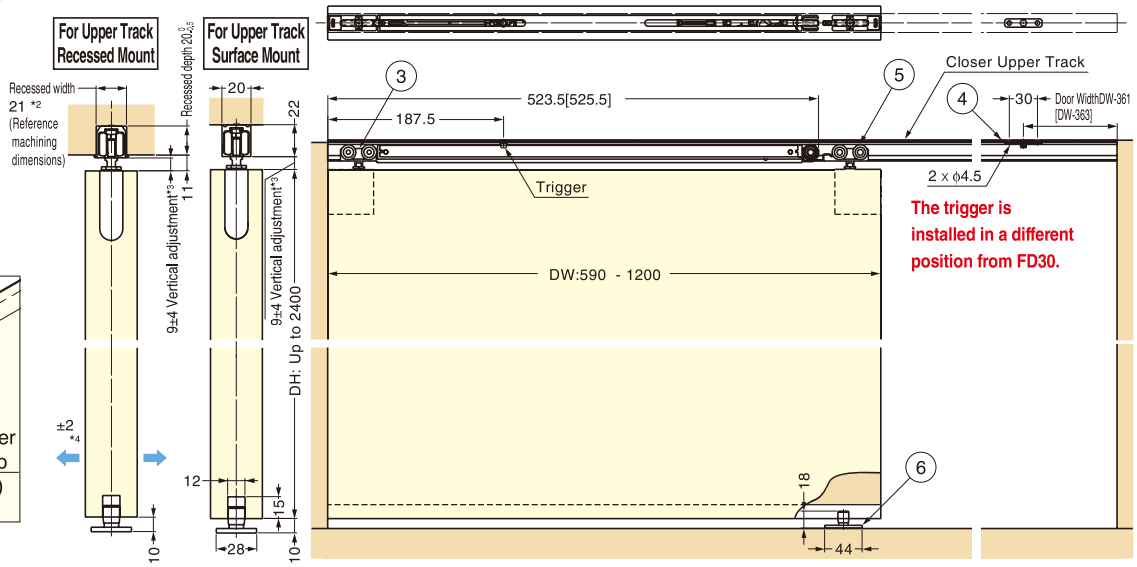
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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HES CONCEALED HINGES
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DOOR STOPPERS
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Installation Example

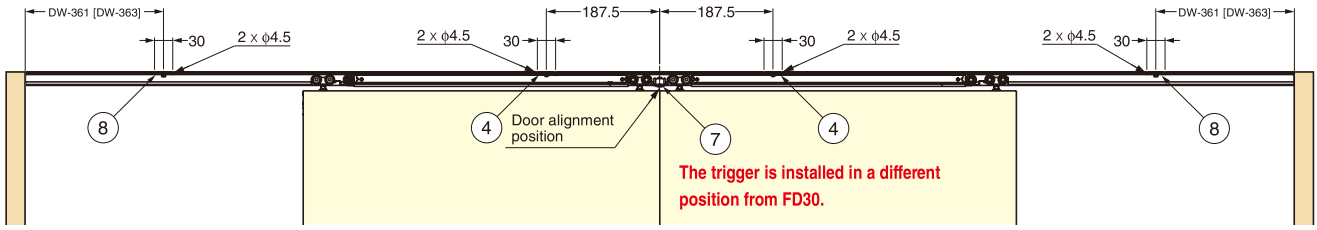
*2 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*3 The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.
*4 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm from the end of the door.





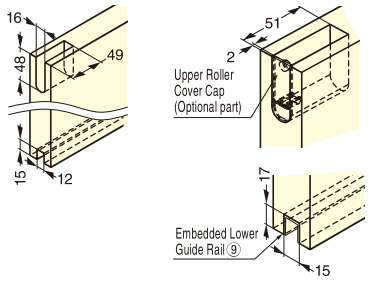
[ ] indicates the dimensions when the upper roller cover cap (optional) is attached.
Also see the instructions on how to calculate the trigger installation position.

Opposite Opening Sliding Doors System with Bumper Block.

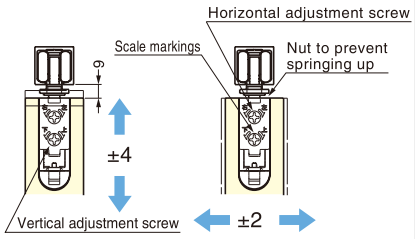


Use the standard upper track for the Opposite Opening Sliding Doors System.

Cut Out Dimensions



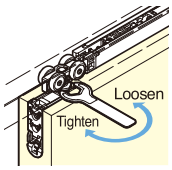
Door Adjustment



· Can be adjusted with one ⊕No. 2 screwdriver.
· Incremental markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring-up prevention nuts (required parts (3) and (5)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Type of Upper Track Recommended screws: Cross-recessed flat head tapping screws 3.5 x 25

Specifications		Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Soft Close Upper Track	Surface Mount	1820 mm	250-033-825 FD35EV-TRM1820SC-SL	250-033-828 FD35EV-TRM1820SC-UM	250-033-831 FD35EV-TRM1820SC-WT
		2000 mm	250-035-935 FD35EV-TRM2000SC-SL	250-035-938 FD35EV-TRM2000SC-UM	–
		2730 mm	250-033-826 FD35EV-TRM2730SC-SL	250-033-829 FD35EV-TRM2730SC-UM	250-033-832 FD35EV-TRM2730SC-WT
		3000 mm	250-035-936 FD35EV-TRM3000SC-SL	250-035-939 FD35EV-TRM3000SC-UM	–
		3640 mm	250-033-827 FD35EV-TRM3640SC-SL	250-033-830 FD35EV-TRM3640SC-UM	250-033-833 FD35EV-TRM3640SC-WT
		4000 mm	250-035-937 FD35EV-TRM4000SC-SL	250-035-940 FD35EV-TRM4000SC-UM	–
	Recessed Mount	1820 mm	250-033-843 FD35EV-TRH1820SC-SL	250-033-846 FD35EV-TRH1820SC-UM	250-033-849 FD35EV-TRH1820SC-WT
		2000 mm	250-035-947 FD35EV-TRH2000SC-SL	250-035-950 FD35EV-TRH2000SC-UM	–
		2730 mm	250-033-844 FD35EV-TRH2730SC-SL	250-033-847 FD35EV-TRH2730SC-UM	250-033-850 FD35EV-TRH2730SC-WT
		3000 mm	250-035-948 FD35EV-TRH3000SC-SL	250-035-951 FD35EV-TRH3000SC-UM	–
		3640 mm	250-033-845 FD35EV-TRH3640SC-SL	250-033-848 FD35EV-TRH3640SC-UM	250-033-851 FD35EV-TRH3640SC-WT
		4000 mm	250-035-949 FD35EV-TRH4000SC-SL	250-035-952 FD35EV-TRH4000SC-UM	–

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD35SP One-way Damper / Recessed Upper Roller NEW

Latest Info

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DOOR DAMPERS
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STACKABLE PARTITION DOOR
SLIDING DOOR

- One-way soft-close model of FD35SP.
- Upgraded for easier installation.

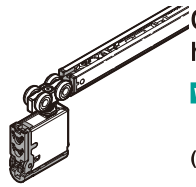
Passed Private 300K Cycle Test

Features	Door Size (per door)	Adjustment
One-way Damper 2-Stage Soft Close	Minimum 24 mm Maximum 2700 mm MAX 35kg 10 kg or more recommended Door Height Max.2400 mm : 520 - 1200 mm Door Height Max.2401-2700 mm : 700 - 1200 mm	±4 mm ±2 mm

2-Stage

Soft closing starts at approx. 100 mm for reliable operation

Soft opening With Sequential Double Damper in two stages enables less force to be used when opening too (compared to FD30).

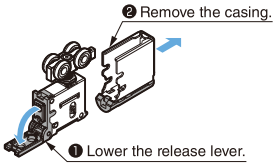


One-touch hanging of door

With Sequential Double Damper

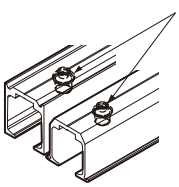
(Leading edge only)

(3) Single Soft Close



The large lever makes operation easy.

- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.



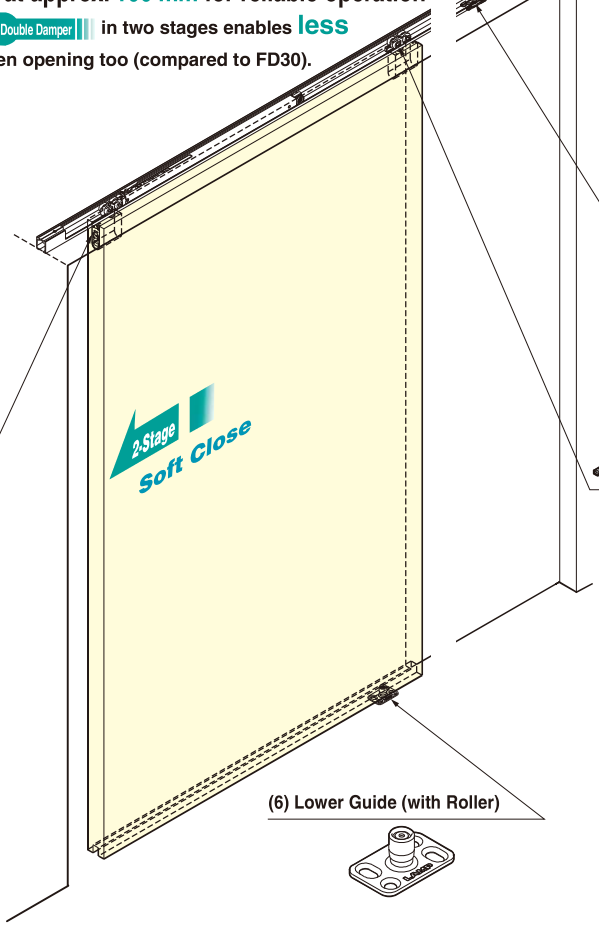
Built-in trigger
Easy installation
Only 20 mm wide compact design

(1) Soft Close Upper Track

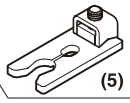
To shorten the upper track, cut the end without the trigger.



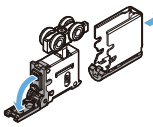
Black colour is available. For details, see the Parts Table (P.692).



(6) Lower Guide (with Roller)



(5) Upper Catch



One-touch hanging of door

(4) Upper Roller (recessed mount)

INSTRUCTION

Remarks

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

Details of essential parts and options (e.g. door stopper, decorative caps for upper rollers, etc.) (P.690~)

Standard part list

Upgraded parts

See “Type of Upper Track” for details on the type of upper track used for (1) and (2).

Parts	Required Parts (Option 1 or 2)		Required Parts							Optional Parts
	(1) Soft Close Upper Track (Surface Mount / Recessed Mount)	(2) Upper Track (Surface Mount / Recessed Mount)	(3) Single Soft Close*1	(4) Upper Roller (recessed mount)	(5) Upper Catch	(6) Lower Guide (with Roller)	(7) Bumper Block	(8) Retrofit Trigger	(9) Trigger Installation Jig	(10) Embedded Lower Guide Rail
Item Code Item Name	Select surface or recessed mount	Select surface or recessed mount	250-055-998 FD35SP-WRH-SC	250-056-000 FD35SP-WRH	250-019-970 FD30-HTST-GR	250-029-718 FD50-BGR18	250-034-114 FD35EV-HBB-GR	250-056-252 FD35SP-TRG-SL	250-033-815 FD35EV-TRJ	250-019-971 FD30-HBRT1500SIL
Single Sliding Door System	1820 mm x 1 pc	–	1 pc	1 pc	1 pc	1 pc	–	–	–	(1 pc)
Overlapping Sliding Doors System	1820 mm x 2 pcs	–	2 pcs	2 pcs	2 pcs	2 pcs	–	–	–	(2 pcs)
Opposite Opening Sliding Doors System	–	3640 mm x 1 pc	2 pcs	2 pcs	2 pcs	2 pcs	1 pc	2 pcs	1 pc	(2 pcs)

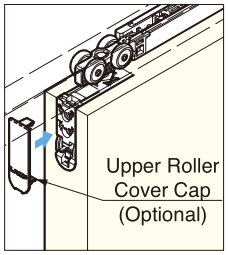
Parts Set
Item Code: 250-056-230 (× 2 for Overlapping / Opposite Opening)
Item Name: FD35SPHCP

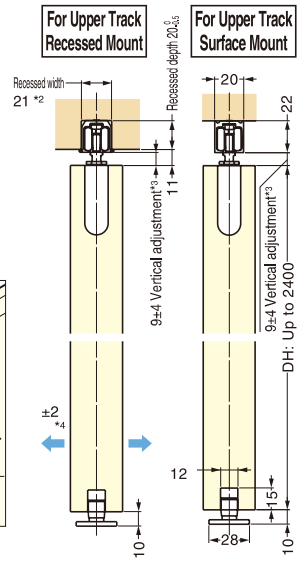
*1 Includes spanner. Can also be purchased separately. (P.690)

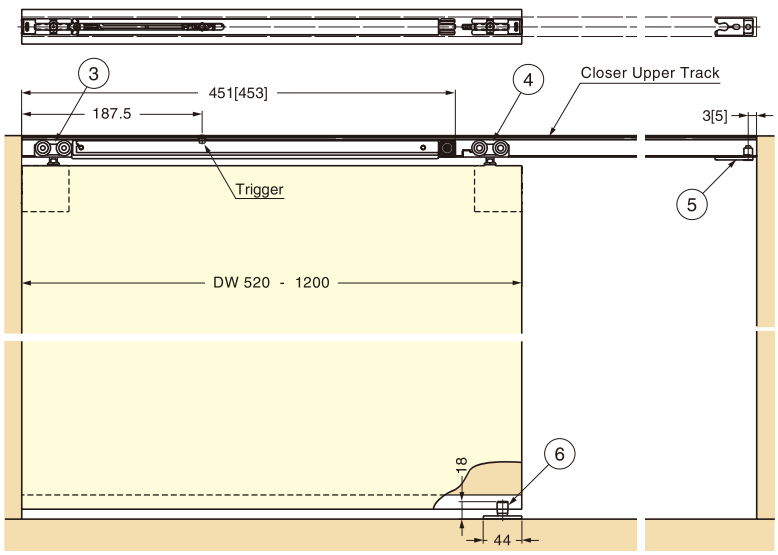
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

*2 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*3 The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.
*4 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm from the end of the door.



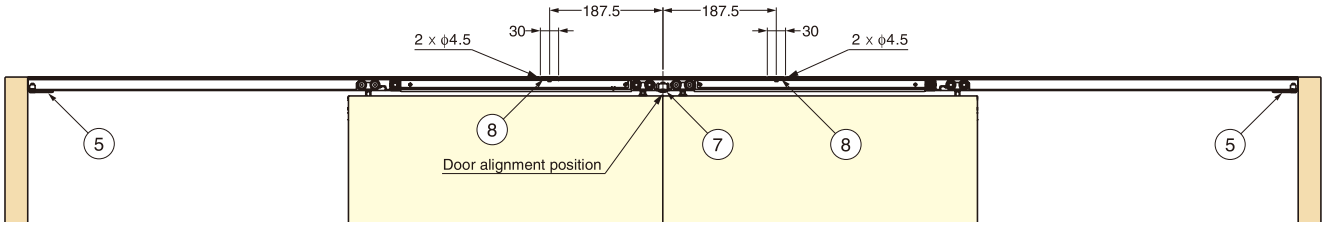




[ ] indicates the dimensions when the upper roller cover cap (optional) is attached.

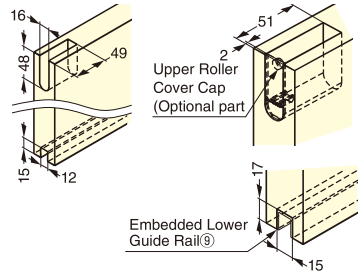
Opposite Opening Sliding Doors System with the Bumper Block

The trigger is installed in a different position from FD30.

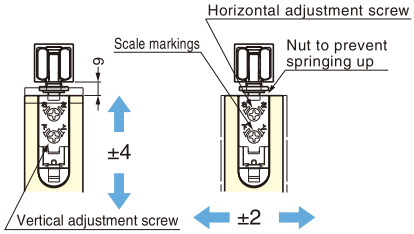


Use the standard upper track for the Opposite Opening Sliding Doors System.

Cut Out Dimensions



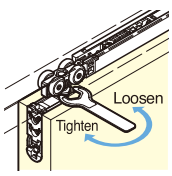
Door Adjustment



· Can be adjusted with one ⊕No. 2 screwdriver.
· Incremental markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring-up prevention nuts (required parts (3) and (4)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Type of Upper Track Recommended screws: Cross-recessed flat head tapping screws 3.5 x 25

Specifications		Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Soft Close Upper Track	Surface Mount	1820 mm	250-033-825 FD35EV-TRM1820SC-SL	250-033-828 FD35EV-TRM1820SC-UM	250-033-831 FD35EV-TRM1820SC-WT
		2000 mm	250-035-935 FD35EV-TRM2000SC-SL	250-035-938 FD35EV-TRM2000SC-UM	–
		2730 mm	250-033-826 FD35EV-TRM2730SC-SL	250-033-829 FD35EV-TRM2730SC-UM	250-033-832 FD35EV-TRM2730SC-WT
		3000 mm	250-035-936 FD35EV-TRM3000SC-SL	250-035-939 FD35EV-TRM3000SC-UM	–
		3640 mm	250-033-827 FD35EV-TRM3640SC-SL	250-033-830 FD35EV-TRM3640SC-UM	250-033-833 FD35EV-TRM3640SC-WT
		4000 mm	250-035-937 FD35EV-TRM4000SC-SL	250-035-940 FD35EV-TRM4000SC-UM	–
	Recessed Mount	1820 mm	250-033-843 FD35EV-TRH1820SC-SL	250-033-846 FD35EV-TRH1820SC-UM	250-033-849 FD35EV-TRH1820SC-WT
		2000 mm	250-035-947 FD35EV-TRH2000SC-SL	250-035-950 FD35EV-TRH2000SC-UM	–
		2730 mm	250-033-844 FD35EV-TRH2730SC-SL	250-033-847 FD35EV-TRH2730SC-UM	250-033-850 FD35EV-TRH2730SC-WT
		3000 mm	250-035-948 FD35EV-TRH3000SC-SL	250-035-951 FD35EV-TRH3000SC-UM	–
		3640 mm	250-033-845 FD35EV-TRH3640SC-SL	250-033-848 FD35EV-TRH3640SC-UM	250-033-851 FD35EV-TRH3640SC-WT
		4000 mm	250-035-949 FD35EV-TRH4000SC-SL	250-035-952 FD35EV-TRH4000SC-UM	–

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD35SP Without Damper / Recessed Upper Roller NEW

Latest Info

- Without damper model of FD35SP.
- Upgraded for easier installation.

Passed Private 300K Cycle Test

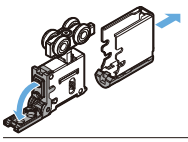
Features	Door Size (per door)	Adjustment
–	Minimum 24 mm Maximum 2700 mm MAX 35kg Door Height Max.2400 mm : Max. 1200 mm Door Height Max.2401 - 2700 mm : 700 - 1200 mm	±4 mm ±2 mm

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SLIDING DOOR

INSTRUCTION

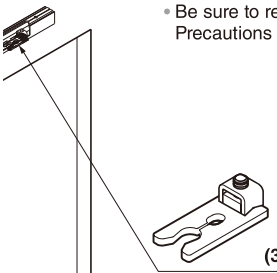
Remarks

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

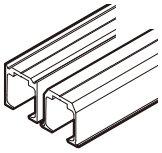


One-touch hanging of door

(2) Upper Roller (recessed mount)



(3) Upper Catch

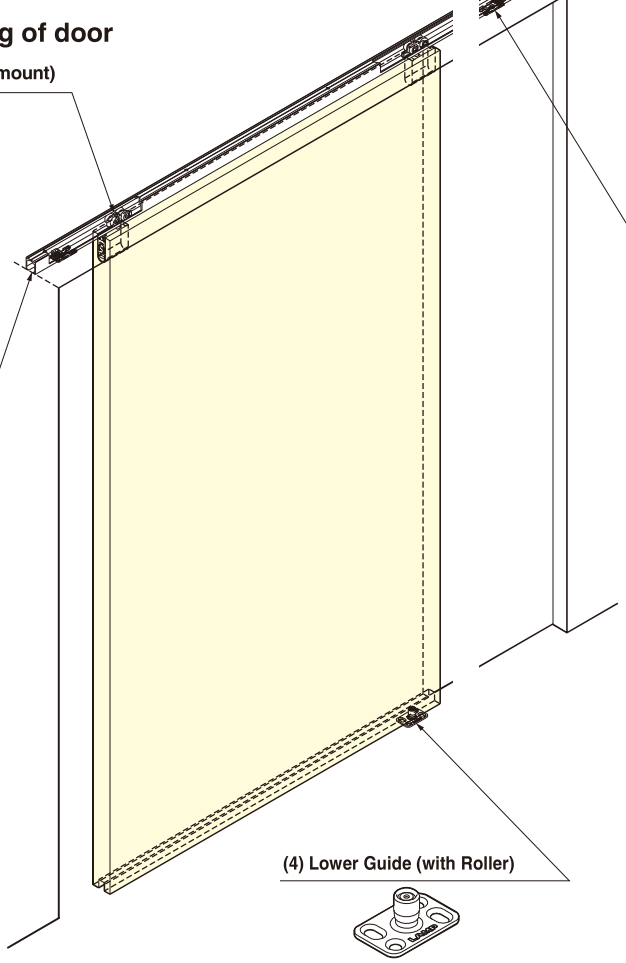


Only 20 mm wide compact design, strong enough to suspend and slide a 35 kg door.

(1) Upper Track



Black colour is available. For details, see the Parts Table (P.692).



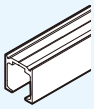
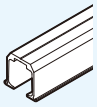
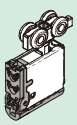
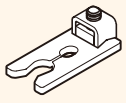
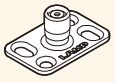
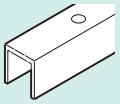
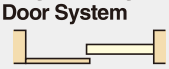
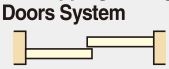
(4) Lower Guide (with Roller)

Details of essential parts and options (e.g. door stopper, decorative caps for upper rollers, etc.) (P.690~)

Standard part list

Upgraded part

See «Type of Upper Track» for details on the type of upper track used for (1).

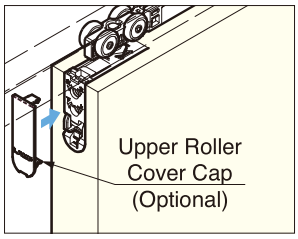
Parts	Required Parts (Option 1 or 2)		Required Parts			Optional Parts
	(1) Upper Track Surface Mount	(1) Upper Track Recessed Mount	(2) Upper Roller (recessed mount)	(3) Upper Catch	(4) Lower Guide (with Roller)	(5) Embedded Lower Guide Rail
						
Item Code Item Name	Select surface or recessed mount		250-056-000 FD35SP-WRH	250-019-970 FD30-HTST-GR	250-029-718 FD50-BGR18	250-019-971 FD30-HBRT1500SIL
Single Sliding Door System 	1820 mm x 1 pc		2 pcs	2 pcs	1 pc	(1 pc)
			Parts Set	Item Code: 250-056-231 Item Name: FD35SPHHP		
Overlapping Sliding Doors System 	1820 mm x 2 pcs		4 pcs	4 pcs	2 pcs	(2 pcs)
			Parts Set	Item Code: 250-056-231 Item Name: FD35SPHHP	× 2	

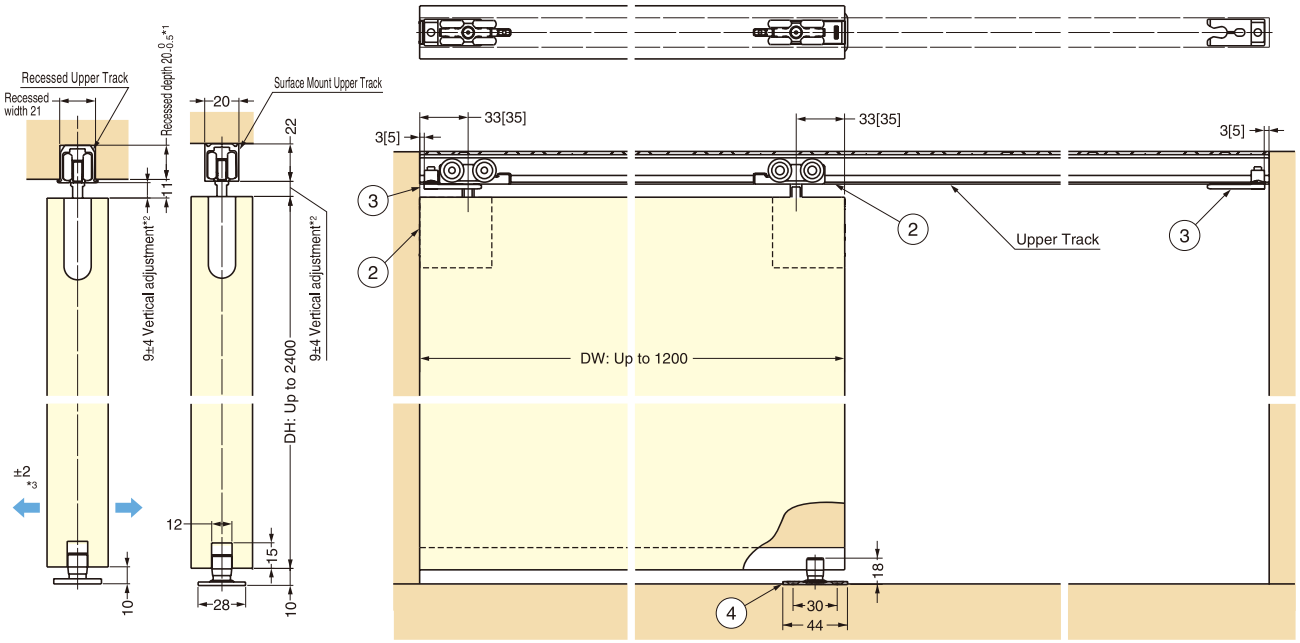
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Installation Example

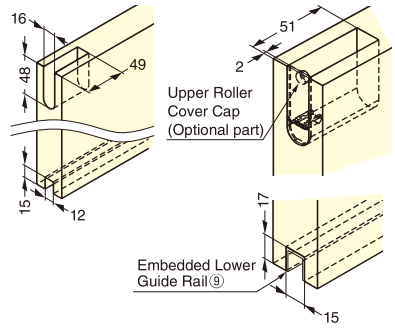
*1 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*2 The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.
*3 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm from the end of the door.



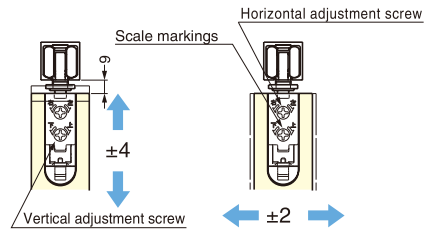


[ ] indicates the dimensions when the upper roller cover cap (optional) is attached.

Cut Out Dimensions



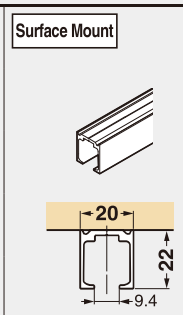
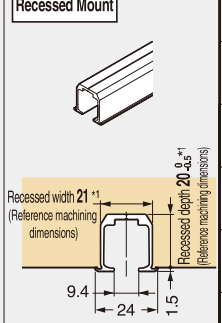
Door Adjustment



- Can be adjusted with one ⊕No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

Type of Upper Track

Recommended screws: Cross-recessed flat head tapping screws 3.5 x 25

Specifications		Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Upper Track	Surface Mount 	1820mm	250-033-816 FD35EV-TRM1820-SL	250-033-819 FD35EV-TRM1820-UM	250-033-822 FD35EV-TRM1820-WT
		2000mm	250-035-929 FD35EV-TRM2000-SL	250-035-932 FD35EV-TRM2000-UM	–
		2730mm	250-033-817 FD35EV-TRM2730-SL	250-033-820 FD35EV-TRM2730-UM	250-033-823 FD35EV-TRM2730-WT
		3000mm	250-035-930 FD35EV-TRM3000-SL	250-035-933 FD35EV-TRM3000-UM	–
		3640mm	250-033-818 FD35EV-TRM3640-SL	250-033-821 FD35EV-TRM3640-UM	250-033-824 FD35EV-TRM3640-WT
		4000mm	250-035-931 FD35EV-TRM4000-SL	250-035-934 FD35EV-TRM4000-UM	–
	Recessed Mount 	1820mm	250-033-834 FD35EV-TRH1820-SL	250-033-837 FD35EV-TRH1820-UM	250-033-840 FD35EV-TRH1820-WT
		2000mm	250-035-941 FD35EV-TRH2000-SL	250-035-944 FD35EV-TRH2000-UM	–
		2730mm	250-033-835 FD35EV-TRH2730-SL	250-033-838 FD35EV-TRH2730-UM	250-033-841 FD35EV-TRH2730-WT
		3000mm	250-035-942 FD35EV-TRH3000-SL	250-035-945 FD35EV-TRH3000-UM	–
		3640mm	250-033-836 FD35EV-TRH3640-SL	250-033-839 FD35EV-TRH3640-UM	250-033-842 FD35EV-TRH3640-WT
		4000mm	250-035-943 FD35EV-TRH4000-SL	250-035-946 FD35EV-TRH4000-UM	–

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD35SP Two-way Damper / Outset / Recessed Upper Roller NEW

Latest Info

- Outset model of FD35SP.
- Wall-mounted upper track.
- Soft opening/closing motion.
- Upgraded for easier installation.

Passed Private 300K Cycle Test

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	30 - 36 mm Maximum 2400 mm 590 - 1200 mm MAX 35kg 10 kg or more recommended	±4 mm ±2 mm

INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage

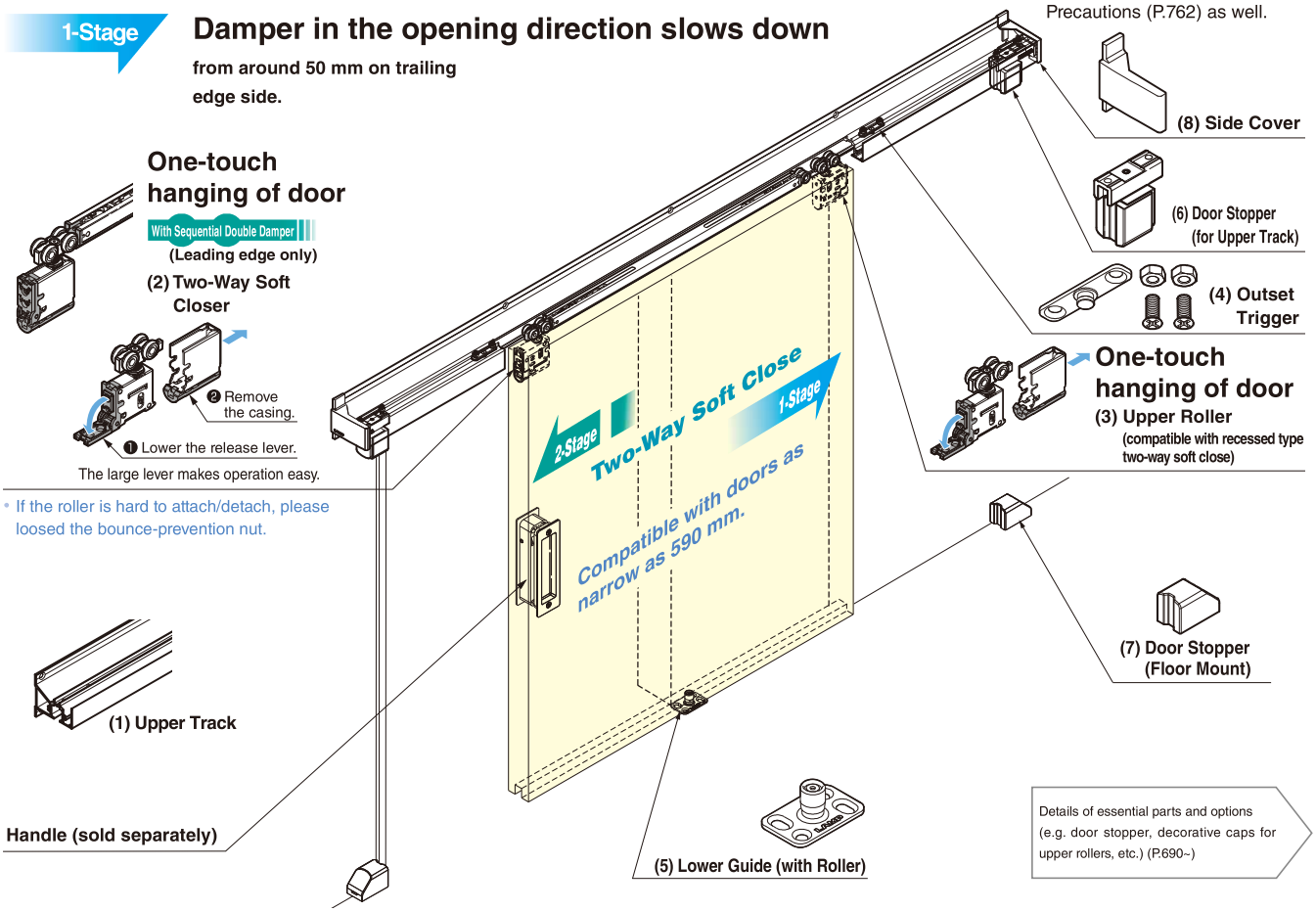
Soft closing starts at approx. 100 mm for reliable operation

Soft opening With Sequential Double Damper in two stages enables less force to be used when opening too (compared to FD30).

1-Stage

Damper in the opening direction slows down

from around 50 mm on trailing edge side.



Details of essential parts and options (e.g. door stopper, decorative caps for upper rollers, etc.) (P.690~)

Standard part list

Upgraded parts

See **"Type of Outset Upper Track"** for details on the type of upper track used for (1).

	Required Parts	Required Parts						Required Parts (Select Colour)	Recommended Options
Parts	(1) Upper Track	(2) Two-Way Soft Close*1	(3) Upper Roller (compatible with recessed type two-way soft close)	(4) Outset Trigger 2 pcs	(5) Lower Guide (with Roller)	(6) Door Stopper (for Upper Track)	(7) Door Stopper (Floor Mount)	(8) Side Cover	(9) Embedded Lower Guide Rail
Item Code Item Name		250-055-997 FD35SP-WRH-DSC	250-055-999 FD35SP-WRH-N	250-056-251 FD35SP-TRA-TRG	250-029-718 FD50-BGR18	250-041-955 FD35EV-TRA-STP	250-041-956 FD35EV-FSTP		250-019-971 FD30-HBRT1500SIL
Two-Way Soft Close Type	2120 mm x 1 pc	1 pc	1 pc	1Set	1 pc	2 pcs	2 pcs	1 set (Grey) 250-022-273 FD30-HASC-GR 1 set (Brown) 250-022-449 FD30-HASC-BR 1 set (White) 250-025-640 FD30-HASC-WT	1 pc

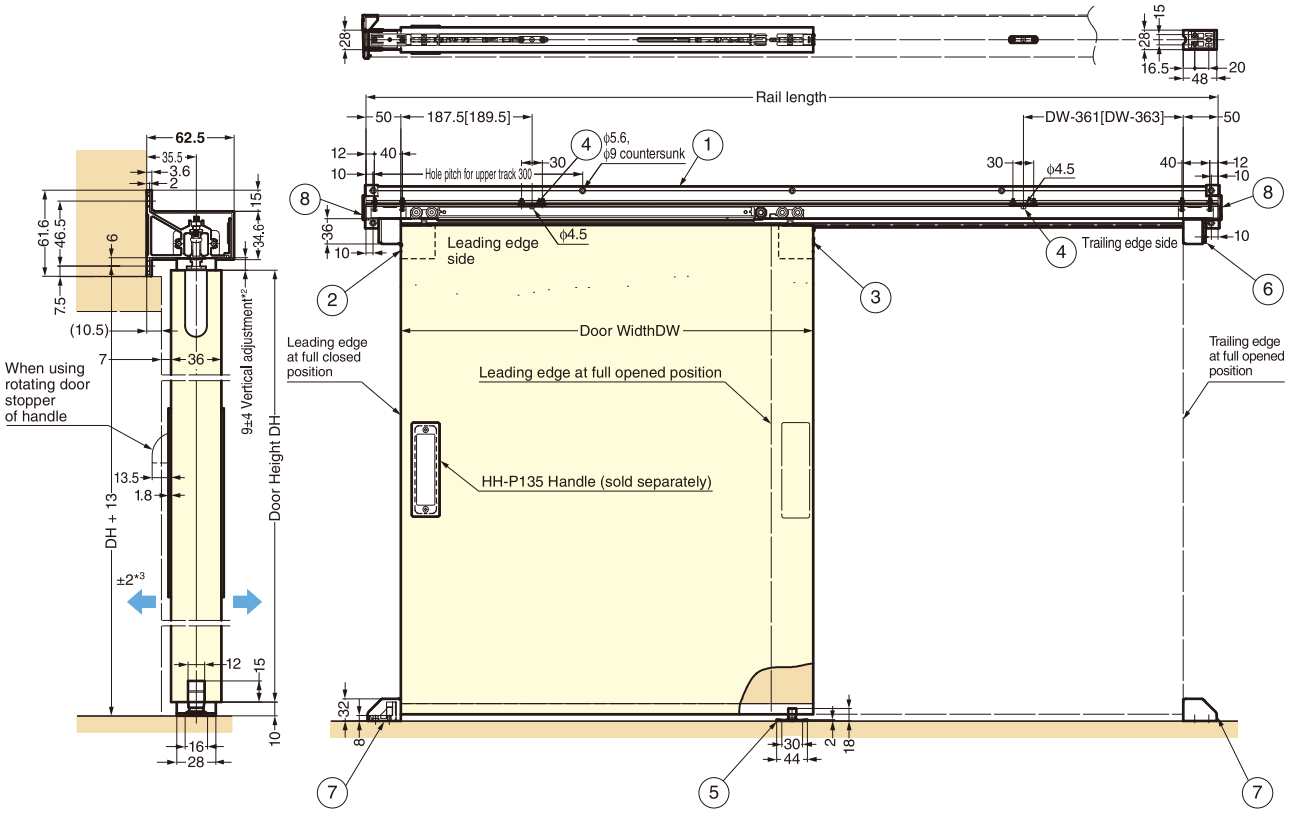
Parts Set — Item Code: 250-056-232
Item Name: FD35SPDHCP-AK

*1 Includes Trigger Installation Jig and spanner. Can also be purchased separately. (P.690)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

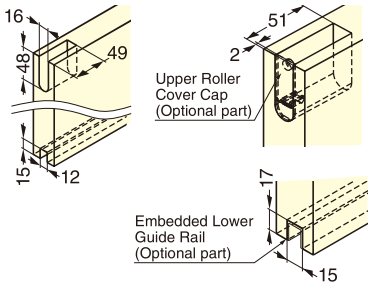
Installation Example

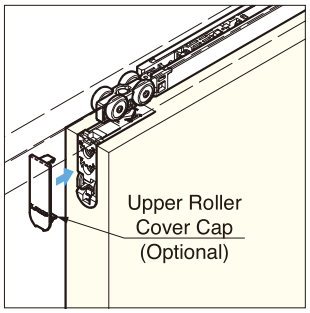
*2 The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.
*3 The horizontal position can be adjusted within a range of -2 mm to +2 mm from the end of the door.



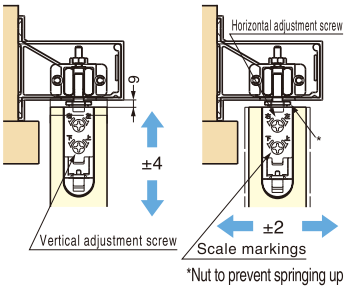
[ ] indicates the dimensions when the upper roller cover cap (optional) is attached.

Cut Out Dimensions





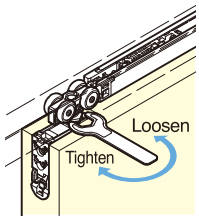
Door Adjustment



· Can be adjusted with one ⊕No. 2 screwdriver.
· Scale markings are provided for horizontal adjustment from the end of the door.

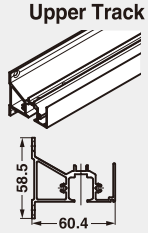
Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring-up prevention nuts (required parts (2) and (3)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Type of Outset Upper Track Included screws: Size 4 x 40 cross-recessed flat head tapping screws

Specifications	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Outset Upper Track 	2120mm	250-041-957 FD35EV-TRA2120-SL	250-041-958 FD35EV-TRA2120-UM	250-041-959 FD35EV-TRA2120-WT
	2420mm	250-041-960 FD35EV-TRA2420-SL	250-041-961 FD35EV-TRA2420-UM	250-041-962 FD35EV-TRA2420-WT
	2720mm	250-041-963 FD35EV-TRA2720-SL	250-041-964 FD35EV-TRA2720-UM	250-041-965 FD35EV-TRA2720-WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD35SP Two-way Damper / Synchronized 2-door / Recessed Upper Roller NEW

Latest Info

- 2-door synchro model of FD35SP.
- Soft opening/closing motion.
- Upgraded for easier installation.

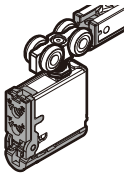
Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	30 - 38 mm Max. 2400 mm MAX 35kg 10 kg or more recommended 590 - 1000mm (Two-Way Soft Close)	±4 mm ±2 mm

INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage Reliable soft closing from approx. 100mm
The Two-Way Damper requires less force to open the door.

1-Stage Damper also works in the opening direction
from around 50 mm on trailing edge side.

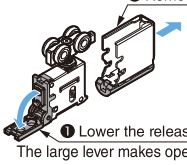


One-touch door hanging

With Sequential Double Damper

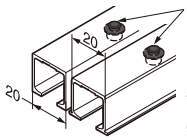
(2) Two-Way Soft Closer

❷ Remove the casing.



❶ Lower the release lever.
The large lever makes operation easy.

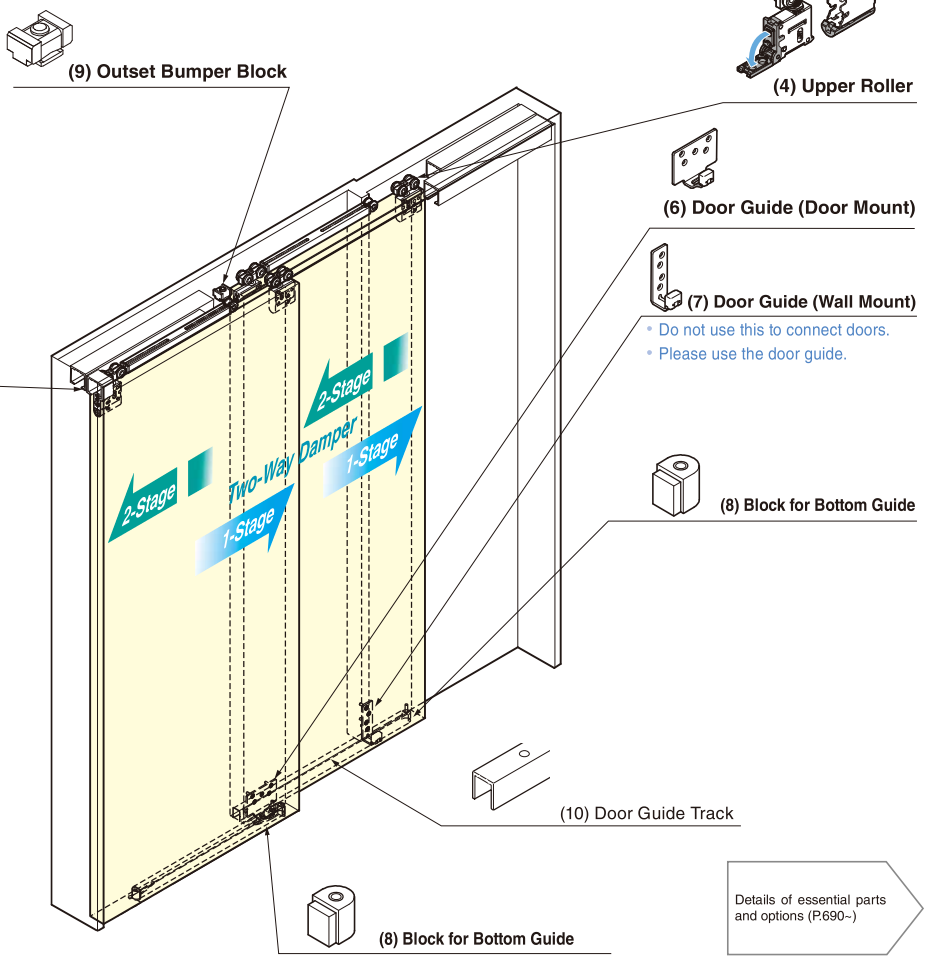
- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.



Built-in trigger for easy installation
Compact design of 20 mm width

(1) Upper Track

- To shorten the upper track, cut from the end without the trigger built in.
- The trigger mounting position is different from FD30.



(9) Outset Bumper Block

(4) Upper Roller

(6) Door Guide (Door Mount)

(7) Door Guide (Wall Mount)
- Do not use this to connect doors.
- Please use the door guide.

(8) Block for Bottom Guide

(10) Door Guide Track

(8) Block for Bottom Guide

Details of essential parts and options (P.690~)

Standard Parts List

For details of (1) Upper Track, see "Type of Upper Track" (P.681).

Upgraded parts

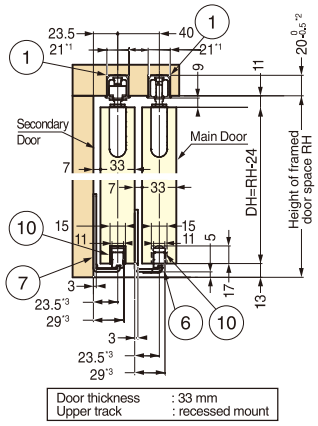
Parts	Selection	Required Parts								
	(1) Upper Track (Surface Mount / Recessed Mount)	(2) Two-Way Soft Closer*	(3) Trigger	(4) Upper Roller	(5) Trigger	(6) Door Guide (Door Mount)	(7) Door Guide (Wall Mount)	(8) Block for Bottom Guide	(9) Outset Bumper Block	(10) Door Guide Track
Item Code Item Name	Select upper track for either surface or recessed mount	250-055-997 FD35SP-WRH-DSC	Included	250-055-999 FD35SP-WRH-N	250-056-252 FD35SP-TRG-SL	250-022-262 FD30-HRDG	250-022-263 FD30-HBGF	250-022-264 FD30-HRDB	250-034-114 FD35EV-HBB-GR	250-019-971 FD30-HBRT1500SIL
Interlocking Panels (x2)	1820 mm × 2 pcs	2 pcs	2 pcs	2 pcs	1pc	1 pc	1 pc	3 pcs	1 pc	2 pcs

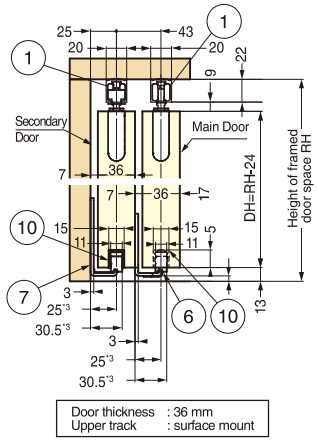
Parts Set — Item Code : 250-056-233 / Item Name : FD35SP-HRP2

*Includes Retrofit Trigger, Jig for Trigger, and spanner. Can also be purchased separately. (P.690)

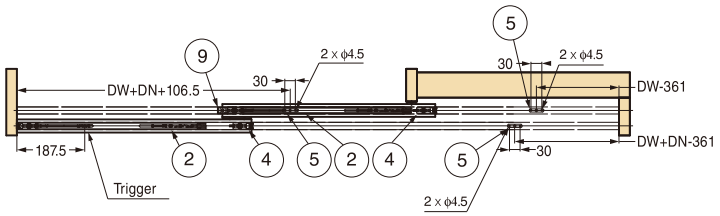
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

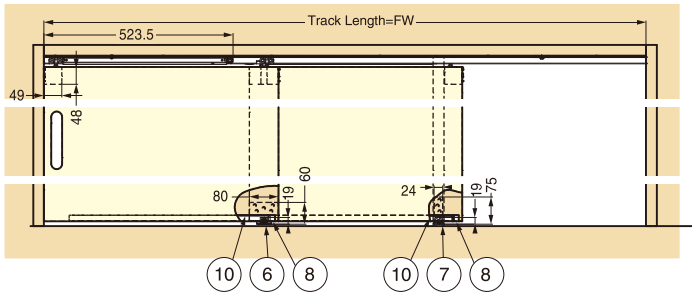
Installation Example

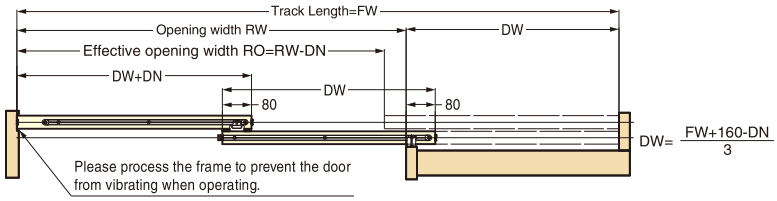




Effective opening width RO = 1010 - 1840mm (without door protrussion DN)

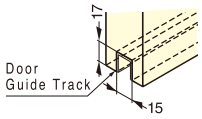




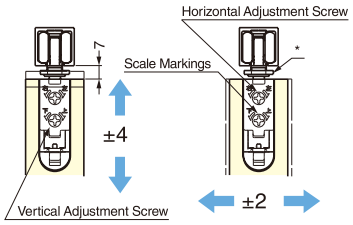


*1 **21** shows the recessed mount dimensions (mortissing dimensions).
*2 Reference dimensions.
*3 For this condition, replace the guide blocks with the Door Guide (Wall Mount) ⑥ and the Block for Bottom Guide ⑦.

Cut Out Dimensions



Door Adjustment

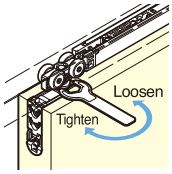


*Nut to prevent springing up

· Can be adjusted with one No. 2 screwdriver.
· Scale markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2)and (4)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Type of Upper Track Recommended screws: Cross-recessed flat head tapping screws 3.5 x 25

Specifications		Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Soft Close Upper Track	Surface Mount	1820mm	250-033-825 FD35EV-TRM1820SC-SL	250-033-828 FD35EV-TRM1820SC-UM	250-033-831 FD35EV-TRM1820SC-WT
		2000mm	250-035-935 FD35EV-TRM2000SC-SL	250-035-938 FD35EV-TRM2000SC-UM	–
		2730mm	250-033-826 FD35EV-TRM2730SC-SL	250-033-829 FD35EV-TRM2730SC-UM	250-033-832 FD35EV-TRM2730SC-WT
		3000mm	250-035-936 FD35EV-TRM3000SC-SL	250-035-939 FD35EV-TRM3000SC-UM	–
		3640mm	250-033-827 FD35EV-TRM3640SC-SL	250-033-830 FD35EV-TRM3640SC-UM	250-033-833 FD35EV-TRM3640SC-WT
		4000mm	250-035-937 FD35EV-TRM4000SC-SL	250-035-940 FD35EV-TRM4000SC-UM	–
	Recessed Mount	1820mm	250-033-843 FD35EV-TRH1820SC-SL	250-033-846 FD35EV-TRH1820SC-UM	250-033-849 FD35EV-TRH1820SC-WT
		2000mm	250-035-947 FD35EV-TRH2000SC-SL	250-035-950 FD35EV-TRH2000SC-UM	–
		2730mm	250-033-844 FD35EV-TRH2730SC-SL	250-033-847 FD35EV-TRH2730SC-UM	250-033-850 FD35EV-TRH2730SC-WT
		3000mm	250-035-948 FD35EV-TRH3000SC-SL	250-035-951 FD35EV-TRH3000SC-UM	–
		3640mm	250-033-845 FD35EV-TRH3640SC-SL	250-033-848 FD35EV-TRH3640SC-UM	250-033-851 FD35EV-TRH3640SC-WT
		4000mm	250-035-949 FD35EV-TRH4000SC-SL	250-035-952 FD35EV-TRH4000SC-UM	–

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD35SP Two-way Damper / Synchronized 3-door / Recessed Upper Roller NEW

Latest Info

- 3-door synchro model of FD35SP.
- Soft opening/closing motion.
- Upgraded for easier installation.

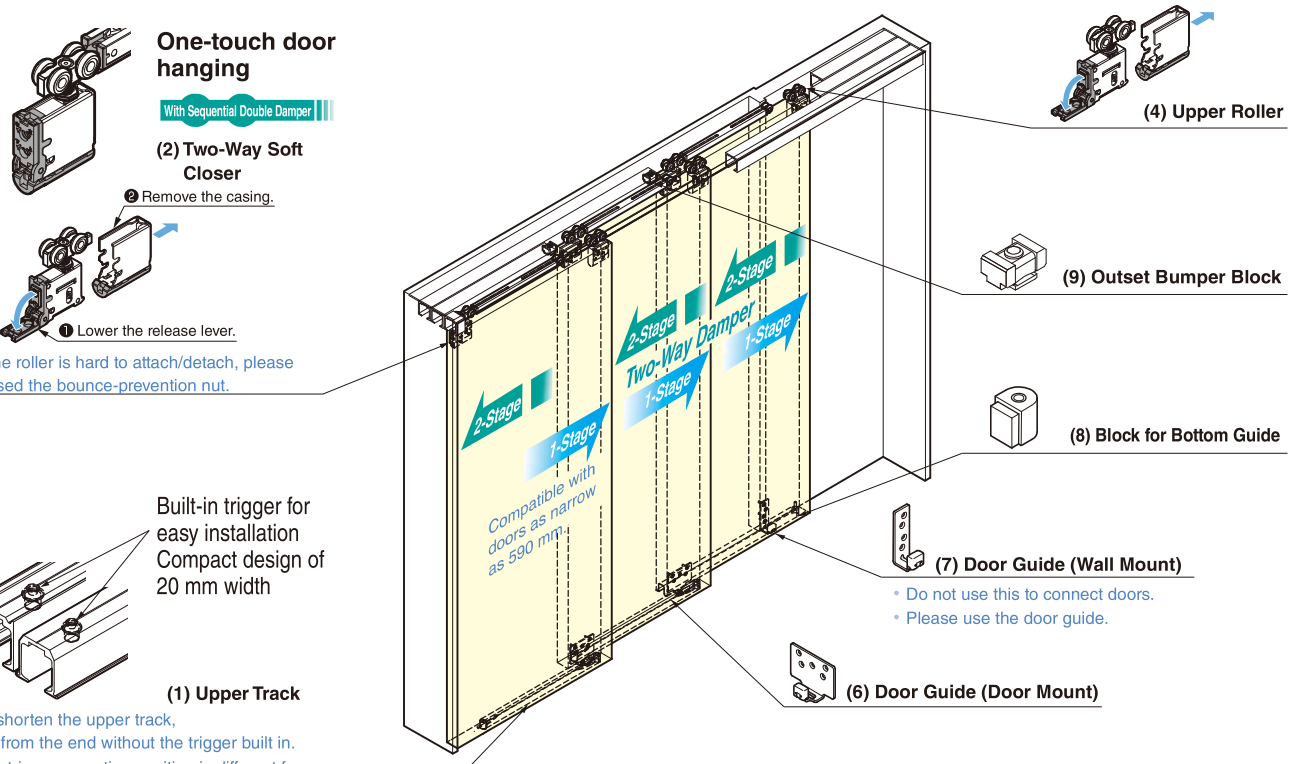
Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	30 - 38 mm Max. 2400 mm MAX 35kg 10 kg or more recommended 590 - 1000mm (Two-Way Soft Close)	±4 mm ±2 mm

INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage Reliable soft closing from approx. 100mm
The Two-Way Damper requires less force to open the door.

1-Stage Damper also works in the opening direction
from around 50 mm on trailing edge side.



Details of essential parts and options (P.690~)

Standard Parts List

For details of (1) Upper Track, see "Type of Upper Track" (P.683).

Upgraded parts

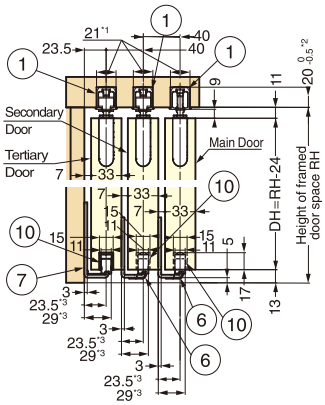
Parts	Selection	Required Parts								
	(1) Upper Track Surface Mount / Recessed Mount	(2) Two-Way Soft Closer*	(3) Trigger	(4) Upper Roller	(5) Trigger	(6) Door Guide (Door Mount)	(7) Door Guide (Wall Mount)	(8) Block for Bottom Guide	(9) Outset Bumper Block	(10) Door Guide Track
Item Code Item Name	Select upper track for either surface or recessed mount	250-055-997 FD35SP-WRH-DSC	Included	250-055-999 FD35SP-WRH-N	250-056-252 FD35SP-TRG-SL	250-022-262 FD30-HRDG	250-022-263 FD30-HBGF	250-022-264 FD30-HRDB	250-034-114 FD35EV-HBB-GR	250-019-971 FD30-HBRT1500SIL
Interlocking Panels (x3)	2730 mm × 3 pcs	3 pcs	3 pcs	3 pcs	2pcs	2 pcs	1 pc	5 pcs	2 pcs	3 pcs

Parts Set — Item Code : 250-056-234 / Item Name : FD35SP-HRP3

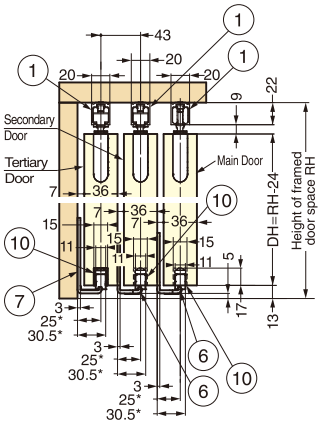
*Includes Retrofit Trigger, Jig for Trigger, and spanner. Can also be purchased separately. (P.690)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

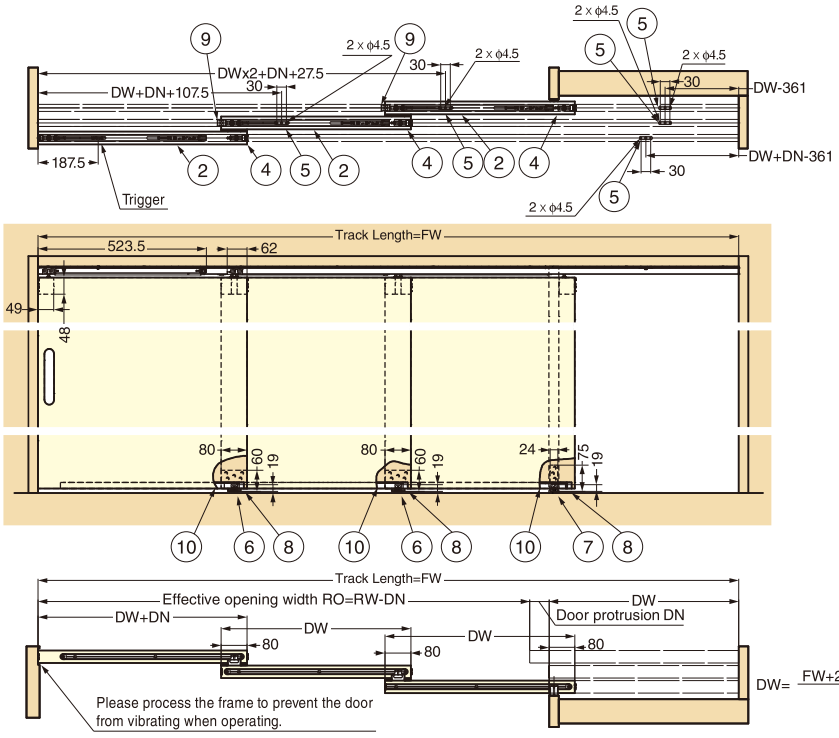


Door thickness : 33 mm
Upper track : recessed mount



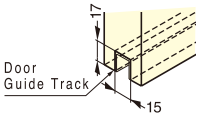
Door thickness : 36 mm
Upper track : surface mount

Effective opening width RO = 1530 - 2760mm (without door protrussion DN)

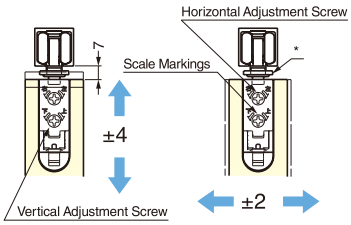


*1 **21** shows the recessed mount dimensions (mortissing dimensions).
*2 Reference dimensions.
*3 For this condition, replace the guide blocks with the Door Guide (Wall Mount) ⑥ and the Block for Bottom Guide ⑦.

Cut Out Dimensions



Door Adjustment

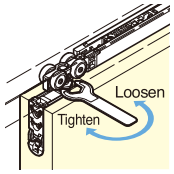


*Nut to prevent springing up

- Can be adjusted with one No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2)and (4)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Type of Upper Track Recommended screws: Cross-recessed flat head tapping screws 3.5 x 25

Specifications		Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Soft Close Upper Track	Surface Mount	1820mm	250-033-825 FD35EV-TRM1820SC-SL	250-033-828 FD35EV-TRM1820SC-UM	250-033-831 FD35EV-TRM1820SC-WT
		2000mm	250-035-935 FD35EV-TRM2000SC-SL	250-035-938 FD35EV-TRM2000SC-UM	–
		2730mm	250-033-826 FD35EV-TRM2730SC-SL	250-033-829 FD35EV-TRM2730SC-UM	250-033-832 FD35EV-TRM2730SC-WT
		3000mm	250-035-936 FD35EV-TRM3000SC-SL	250-035-939 FD35EV-TRM3000SC-UM	–
		3640mm	250-033-827 FD35EV-TRM3640SC-SL	250-033-830 FD35EV-TRM3640SC-UM	250-033-833 FD35EV-TRM3640SC-WT
		4000mm	250-035-937 FD35EV-TRM4000SC-SL	250-035-940 FD35EV-TRM4000SC-UM	–
	Recessed Mount	1820mm	250-033-843 FD35EV-TRH1820SC-SL	250-033-846 FD35EV-TRH1820SC-UM	250-033-849 FD35EV-TRH1820SC-WT
		2000mm	250-035-947 FD35EV-TRH2000SC-SL	250-035-950 FD35EV-TRH2000SC-UM	–
		2730mm	250-033-844 FD35EV-TRH2730SC-SL	250-033-847 FD35EV-TRH2730SC-UM	250-033-850 FD35EV-TRH2730SC-WT
		3000mm	250-035-948 FD35EV-TRH3000SC-SL	250-035-951 FD35EV-TRH3000SC-UM	–
		3640mm	250-033-845 FD35EV-TRH3640SC-SL	250-033-848 FD35EV-TRH3640SC-UM	250-033-851 FD35EV-TRH3640SC-WT
		4000mm	250-035-949 FD35EV-TRH4000SC-SL	250-035-952 FD35EV-TRH4000SC-UM	–

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD35SP Pocket Door / Two-way Damper / Recessed Upper Roller NEW

Latest Info

- Pocket door model of FD35SP.
- Separable upper tracks.
- Easy maintenance after installation.
- Soft opening/closing motion.
- Upgraded for easier installation.

Passed Private 300K Cycle Test

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	Minimum 30 mm Maximum 2700 mm MAX 35kg 10 kg or higher recommended Door Height Max.2400 mm : 590 - 1200 mm Door Height Max.2401 - 2700 mm : 700 - 1200 mm	±4 mm ±2 mm

INSTRUCTION

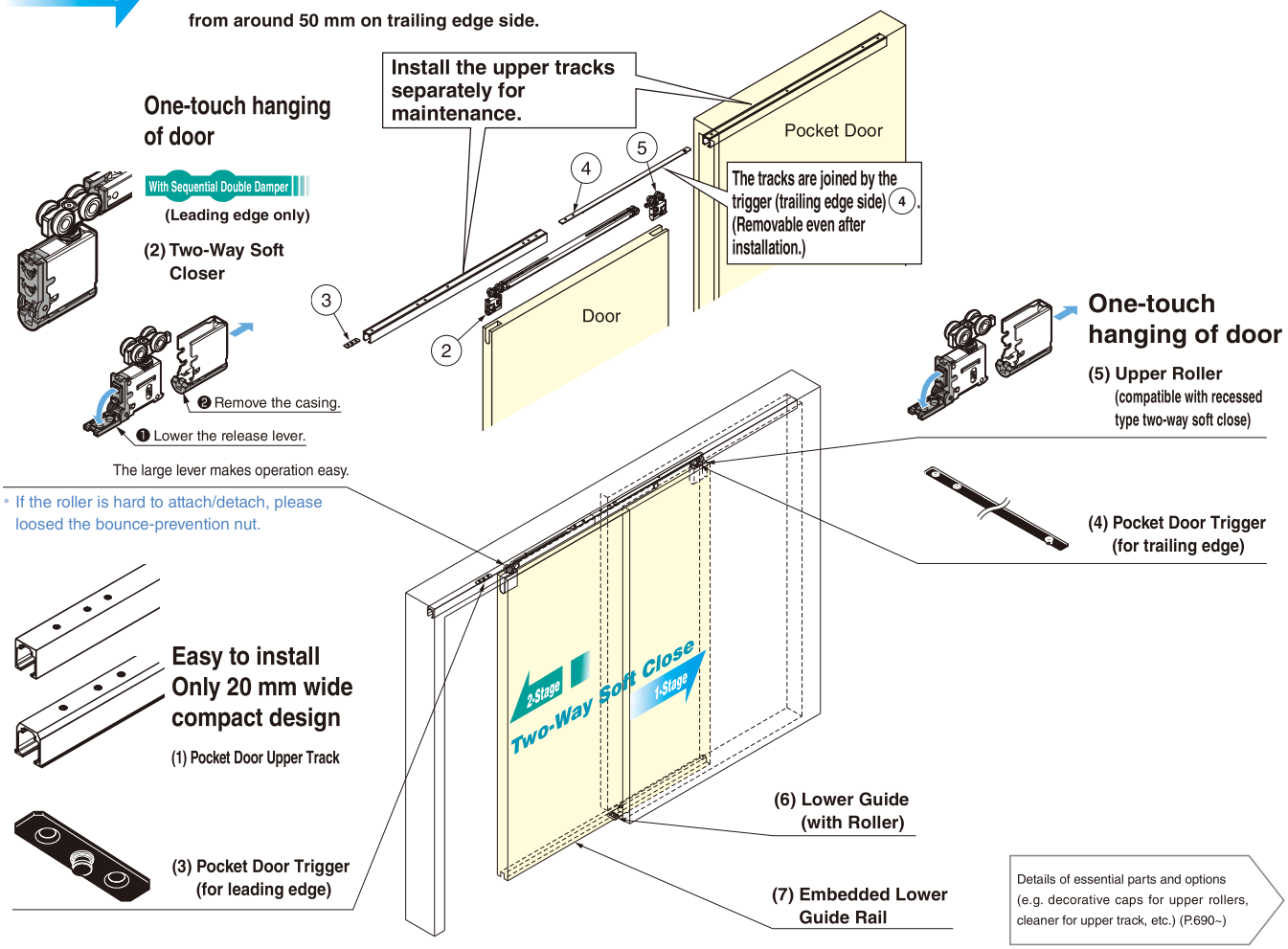
Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage Soft closing starts at approx. 100 mm for reliable operation

Soft opening With Sequential Double Damper in two stages enables less force to be used when opening too (compared to FD30).

1-Stage Damper in the opening direction slows down

from around 50 mm on trailing edge side.



Details of essential parts and options (e.g. decorative caps for upper rollers, cleaner for upper track, etc.) (P.690~)

Standard part list

(1) See "Type of Pocket Door Upper Track" for details on the type of pocket door upper track used for (1).

Upgraded parts

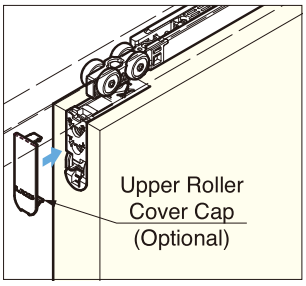
Parts	Required Parts	Required Parts					Optional Parts
	(1) Pocket Door Upper Track	(2) Two-Way Soft Close*1	(3) Pocket Door Trigger (for leading edge)	(4) Pocket Door Trigger (for trailing edge)	(5) Upper Roller (compatible with recessed type two-way soft close)	(6) Lower Guide (with Roller)	(7) Embedded Lower Guide Rail
Item Code Item Name		250-055-997 FD35SP-WRH-DSC	250-035-299 FD35EV-TRGPF	250-035-298 FD35EV-TRGPB	250-055-999 FD35SP-WRH-N	250-029-718 FD50-BGR18	250-019-971 FD30-HBRT1500SIL
Pocket Door	1860 mm x 1 pc (cut to size)	1 pc	1 pc	1 pc	1 pc	1 pc	(1 pc)
		Parts Set Item Code: 250-056-235 Item Name: FD35SPDHCP-PD					

*1 Includes spanner. Can also be purchased separately. (P.690)

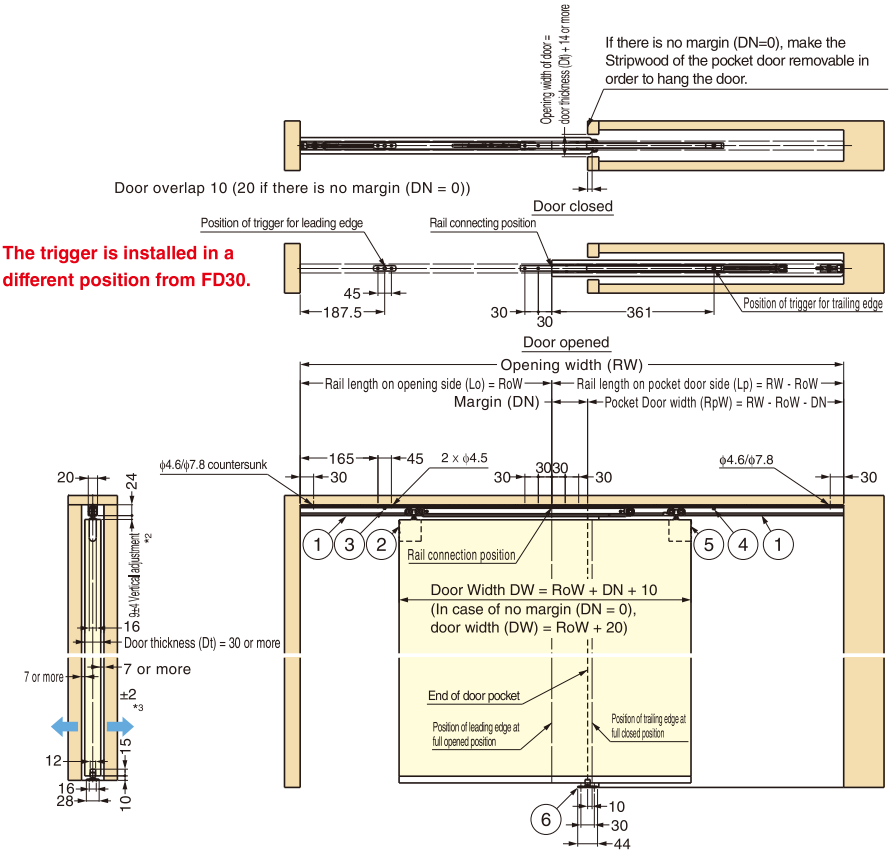
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Installation Example

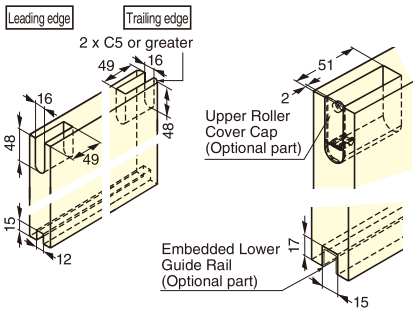


*2 The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.
*3 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm from the end of the door.



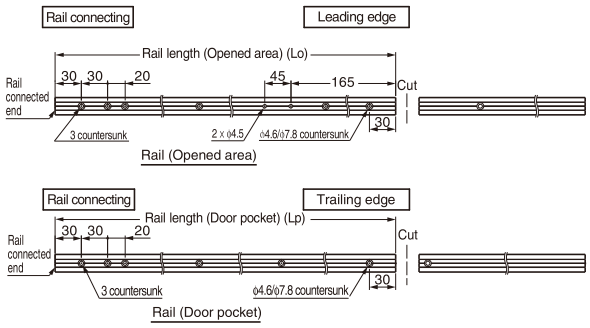
The trigger is installed in a different position from FD30.

Cut Out Dimensions

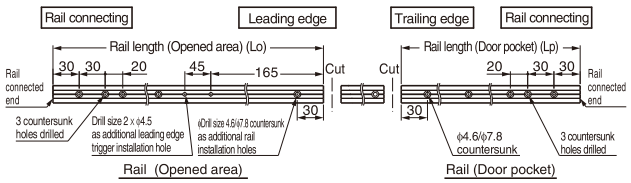


Pocket Door Upper Track Dimensions

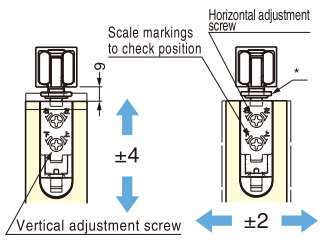
With two rails of 860 mm or 1260 mm



With one rail of 1860 mm, 2760 mm or 3960 mm



Door Adjustment

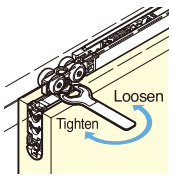


*Includes nuts to prevent springing up

- Can be adjusted with one ⊕No. 2 screwdriver.
- Incremental markings are provided for horizontal adjustment from the end of the door.

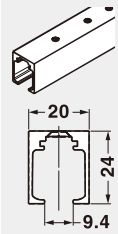
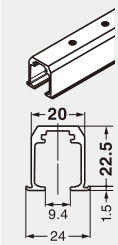
Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring-up prevention nuts (required parts (2) and (5)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Type of Pocket Door Upper Track Included screws: Cross-recessed flat head tapping screws 3.5 x 25

Specifications	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Pocket Door Upper Track Surface Mount 	860mm	250-035-283 FD30-35EV-TRMP860-SL	250-035-288 FD30-35EV-TRMP860-UM	250-035-293 FD30-35EV-TRMP860-WT
	1260mm	250-035-284 FD30-35EV-TRMP1260-SL	250-035-289 FD30-35EV-TRMP1260-UM	250-035-294 FD30-35EV-TRMP1260-WT
	1860mm	250-035-285 FD30-35EV-TRMP1860-SL	250-035-290 FD30-35EV-TRMP1860-UM	250-035-295 FD30-35EV-TRMP1860-WT
	2760mm	250-035-286 FD30-35EV-TRMP2760-SL	250-035-291 FD30-35EV-TRMP2760-UM	250-035-296 FD30-35EV-TRMP2760-WT
	3960mm	250-035-287 FD30-35EV-TRMP3960-SL	250-035-292 FD30-35EV-TRMP3960-UM	250-035-297 FD30-35EV-TRMP3960-WT
(1) Pocket Door Upper Track Recessed Mount 	860mm	250-043-802 FD30-35EV-TRHP860-SL	250-043-807 FD30-35EV-TRHP860-UM	250-043-812 FD30-35EV-TRHP860-WT
	1260mm	250-043-803 FD30-35EV-TRHP1260-SL	250-043-808 FD30-35EV-TRHP1260-UM	250-043-813 FD30-35EV-TRHP1260-WT
	1860mm	250-043-804 FD30-35EV-TRHP1860-SL	250-043-809 FD30-35EV-TRHP1860-UM	250-043-814 FD30-35EV-TRHP1860-WT
	2760mm	250-043-805 FD30-35EV-TRHP2760-SL	250-043-810 FD30-35EV-TRHP2760-UM	250-043-815 FD30-35EV-TRHP2760-WT
	3960mm	250-043-806 FD30-35EV-TRHP3960-SL	250-043-811 FD30-35EV-TRHP3960-UM	250-043-816 FD30-35EV-TRHP3960-WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD35EV Two-Way Damper / Surface Mounted Roller NEW

Latest Info

- Supports doors 35kg max.
- Durable construction & smooth operation.
- Can be used in public facilities.

Passed Private 300K Cycle Test

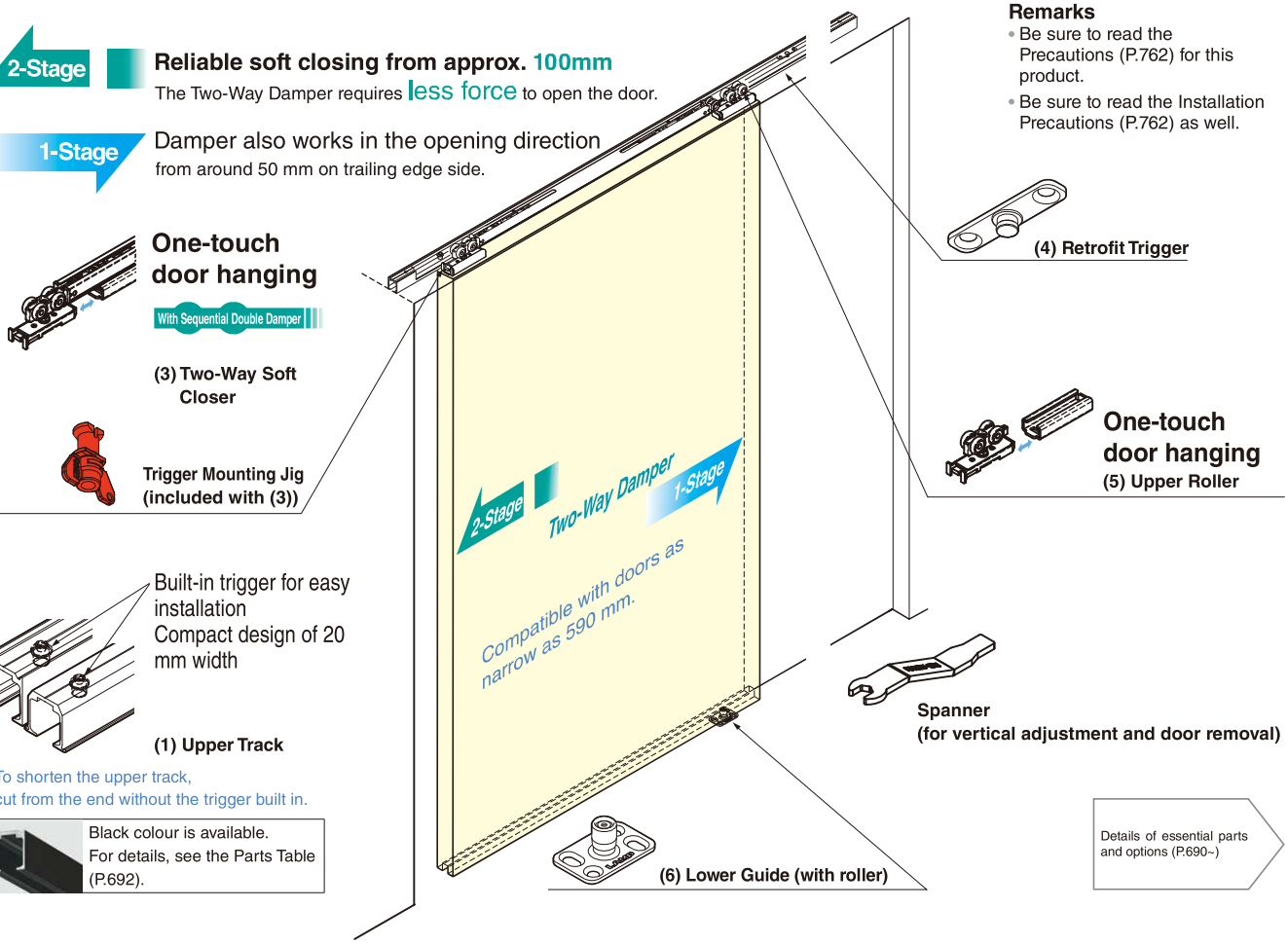
Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	Min. 22 mm Max. 2,700 mm MAX 35kg 10 kg or more recommended 590-1200 mm (Height: <2400 mm) 700-1200 mm (Height: 2401-2700 mm)	+2 mm −4 mm

INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage **Reliable soft closing from approx. 100mm**
The Two-Way Damper requires less force to open the door.

1-Stage Damper also works in the opening direction from around 50 mm on trailing edge side.



One-touch door hanging
With Sequential Double Damper
(3) Two-Way Soft Closer

Trigger Mounting Jig (included with (3))

(4) Retrofit Trigger

One-touch door hanging
(5) Upper Roller

Spanner
(for vertical adjustment and door removal)

Built-in trigger for easy installation
Compact design of 20 mm width

(1) Upper Track

- To shorten the upper track, cut from the end without the trigger built in.

Black colour is available. For details, see the Parts Table (P.692).

(6) Lower Guide (with roller)

Details of essential parts and options (P.690~)

Standard Parts List

For details of (1)(2) Upper Track, see "Type of Upper Track"(P.687).

Parts	Selection		Required Parts						Option
	(1) Upper Track	(2) Upper Track	(3) Two-Way Soft Closer*1	(4) Retrofit Trigger	(5) Upper Roller	(6) Lower Guide (with roller)	(7) Bumper Block	(8) Retrofit Trigger	(9) Embedded Lower Guide Track
	Surface Mount / Recessed Mount	Surface Mount / Recessed Mount							
Item Code Item Name	Select upper track for either surface or recessed mount	Select upper track for either surface or recessed mount	250-048-913 FD35EV-WRM-DSC	Included with (2)	250-048-914 FD35EV-WRM	250-029-718 FD50-BGR18	Included with (2)	250-033-814 FD35EV-TRG	250-019-971 FD30-HBRT1500SIL
Single Sliding	1820 mm × 1 pc	–	1 pc	1 pc	1 pc	1 pc	—	—	(1 pc)
Overlapping Sliding	1820 mm × 2 pcs	–	2 pcs	2 pcs	2 pcs	2 pcs	—	—	(2 pcs)
Opposite Opening Sliding	–	3640 mm × 1 pc	2 pcs	2 pcs	2 pcs	2 pcs	1 pc	2 pcs	(2 pcs)

Parts Set
Item Code: 250-050-452
Item Name: FD35EVDHCMP
×2

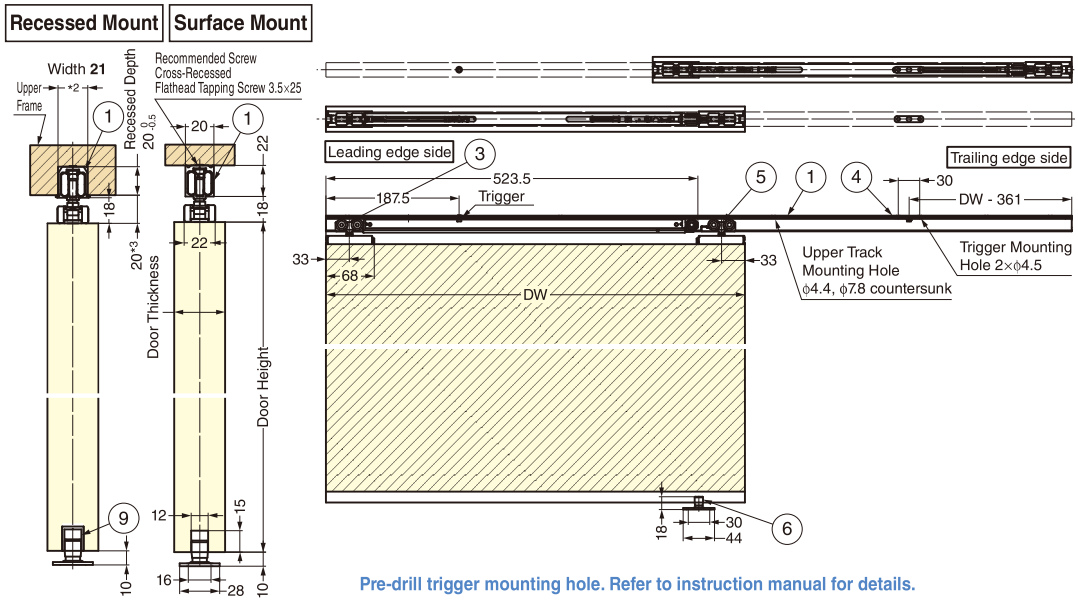
*1 Includes (3) Retrofit Trigger, Trigger Mounting Jig and Spanner. Also available for individual purchase. (P.690)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

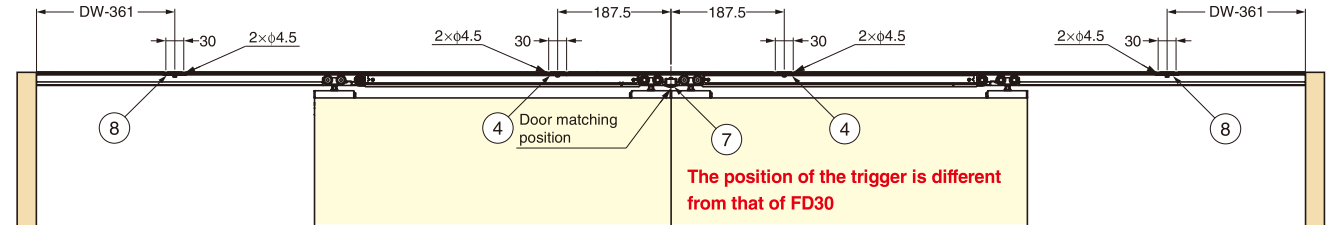
Installation Example

*2 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*3 The gap between the upper track and the door can be adjusted within a range of -4 mm to +2 mm.



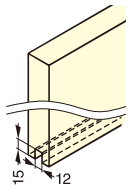
Pre-drill trigger mounting hole. Refer to instruction manual for details.

When Using with Bumper Blocks opposite opening sliding doors

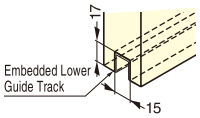


Use the standard upper track for the Opposite Opening Sliding Doors System.

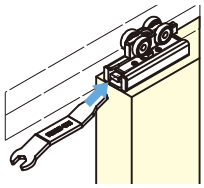
Cut Out Dimensions



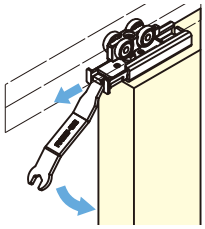
When the embedded lower guide track (9) shown in (P.664) is used



■How to Remove the Door

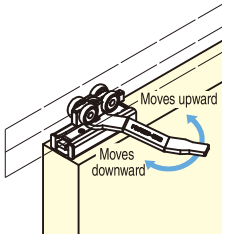


Insert the backside of the spanner or a slotted screwdriver (or similar tool) under the lever inside of the upper roller.



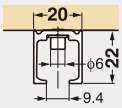
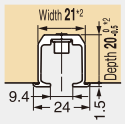
Lift the lever by pushing down on the spanner (or other tool) to detach the roller.

■Vertical Adjustment of Door



Use the spanner to rotate the vertical adjustment nut on the upper roller to adjust the position of the door upwards or downwards.

Type of Upper Track Recommended screws: Cross-recessed flathead tapping screws 3.5 × 25

	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Surface Mount	1820mm	250-033-825 FD35EV-TRM1820SC-SL	250-033-828 FD35EV-TRM1820SC-UM	250-033-831 FD35EV-TRM1820SC-WT
	2000mm	250-035-935 FD35EV-TRM2000SC-SL	250-035-938 FD35EV-TRM2000SC-UM	–
	2730mm	250-033-826 FD35EV-TRM2730SC-SL	250-033-829 FD35EV-TRM2730SC-UM	250-033-832 FD35EV-TRM2730SC-WT
	3000mm	250-035-936 FD35EV-TRM3000SC-SL	250-035-939 FD35EV-TRM3000SC-UM	–
	3640mm	250-033-827 FD35EV-TRM3640SC-SL	250-033-830 FD35EV-TRM3640SC-UM	250-033-833 FD35EV-TRM3640SC-WT
	4000mm	250-035-937 FD35EV-TRM4000SC-SL	250-035-940 FD35EV-TRM4000SC-UM	–
Recessed Mount	1820mm	250-033-843 FD35EV-TRH1820SC-SL	250-033-846 FD35EV-TRH1820SC-UM	250-033-849 FD35EV-TRH1820SC-WT
	2000mm	250-035-947 FD35EV-TRH2000SC-SL	250-035-950 FD35EV-TRH2000SC-UM	–
	2730mm	250-033-844 FD35EV-TRH2730SC-SL	250-033-847 FD35EV-TRH2730SC-UM	250-033-850 FD35EV-TRH2730SC-WT
	3000mm	250-035-948 FD35EV-TRH3000SC-SL	250-035-951 FD35EV-TRH3000SC-UM	–
	3640mm	250-033-845 FD35EV-TRH3640SC-SL	250-033-848 FD35EV-TRH3640SC-UM	250-033-851 FD35EV-TRH3640SC-WT
	4000mm	250-035-949 FD35EV-TRH4000SC-SL	250-035-952 FD35EV-TRH4000SC-UM	–

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD35EV Surface Mounted Roller NEW

Latest Info

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

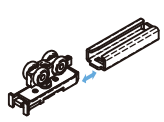
- Supports doors 35kg max.
- Durable construction & smooth operation.
- Can be used in public facilities.

Passed Private 300K Cycle Test

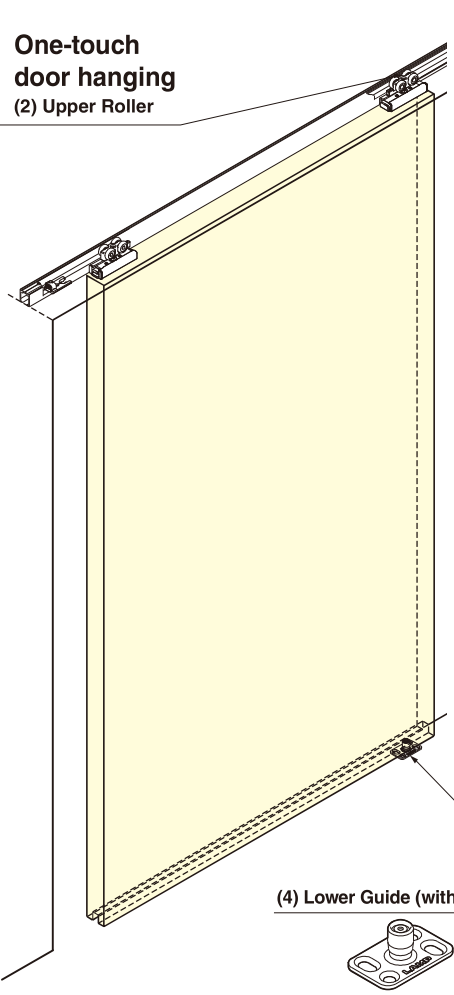
Features	Door Size (per door)	Adjustment
–	Min. 22 mm / Max. 2,700 mm; MAX 35kg; Min. 1200 mm (Height: <2400 mm) 700-1200 mm (Height: 2401-2700 mm)	+0 mm −4 mm

INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

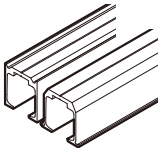


One-touch door hanging
(2) Upper Roller





(3) Upper Catch



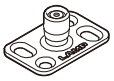
Only 20 mm wide compact design, strong enough to suspend and slide a 35 kg door.
(1) Upper Track



Black colour is available. For details, see the Parts Table (P.692).



Spanner*1
(for vertical adjustment and door removal)



(4) Lower Guide (with roller)

Details of essential parts and options (P.690~)

Standard Parts List

For details of (1) Upper Track, see "Type of Upper Track" (P.689).

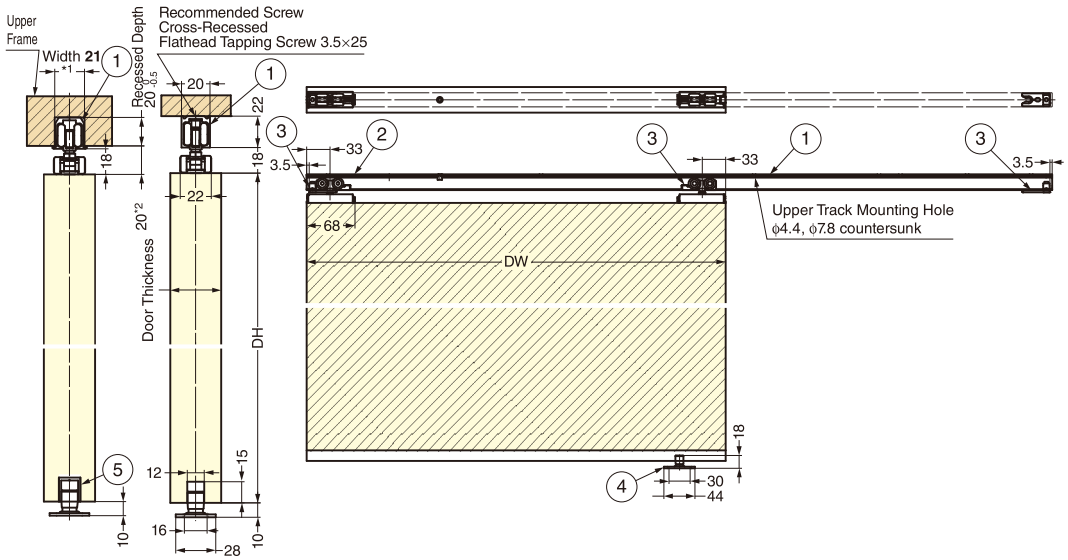
Parts	Selection	Required Parts			Option
	(1) Upper Track	(2) Upper Roller	(3) Upper Catch	(4) Lower Guide (with roller)	(5) Embedded Lower Guide Track
	Surface Mount / Recessed Mount				
Item Code Item Name	Select upper track for either surface or recessed mount	250-048-914 FD35EV-WRM	250-048-917 FD35EV-WRM-HTST-GR The part set is grey. White and dark brown sets are also available.	250-029-718 FD50-BGR18	250-019-971 FD30-HBRT1500SIL
Single Sliding	1820 mm × 1 pc	2 pcs	2 pcs	1 pc	(1 pc)
		Parts Set	Item Code: 250-050-451 Item Name: FD35EVHMP		
Overlapping Sliding	1820 mm × 2 pcs	4 pcs	4 pcs	2 pcs	(2 pcs)
		Parts Set	Item Code: 250-050-451 Item Name: FD35EVHMP ×2		

*1 Includes Spanner. Also available for individual purchase. (P.690)

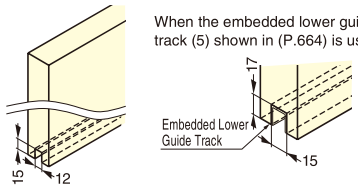
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

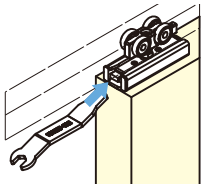
*1 If wrapping with a cloth, etc., account for the dimensions of the cloth.
*2 The gap between the upper track and the door can be adjusted within +4 mm.



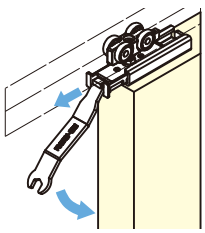
Cut Out Dimensions



■How to Remove the Door

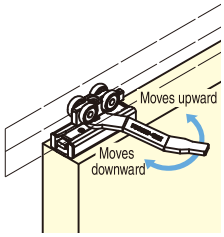


Insert the backside of the spanner or a slotted screwdriver (or similar tool) under the lever inside of the upper roller.



Lift the lever by pushing down on the spanner (or other tool) to detach the roller.

■Vertical Adjustment of Door



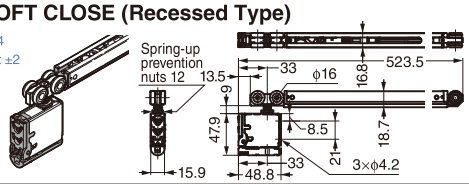
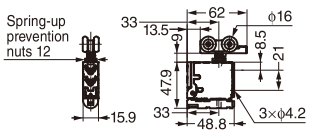
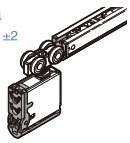
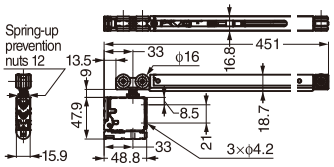
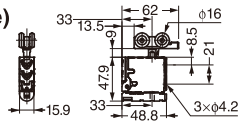
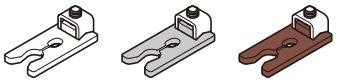
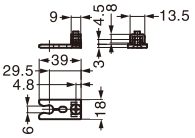
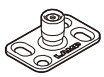
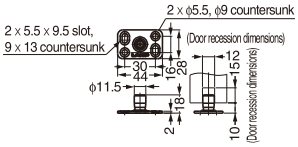
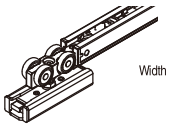
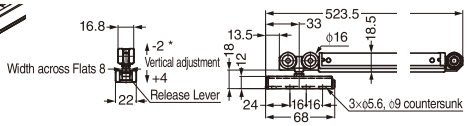
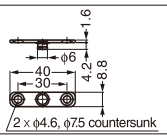
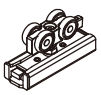
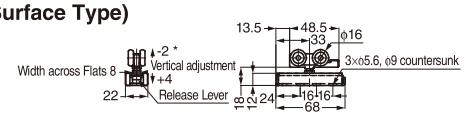
Use the spanner to rotate the vertical adjustment nut on the upper roller to adjust the position of the door upwards or downwards.

Type of Upper Track Recommended screws: Cross-recessed flathead tapping screws 3.5 × 25

	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name	Black Item Code Item Name
Surface Mount	1820mm	250-033-816 FD35EV-TRM1820-SL	250-033-819 FD35EV-TRM1820-UM	250-033-822 FD35EV-TRM1820-WT	250-048-948 FD35EV-TRM1820-BL
	2000mm	250-035-929 FD35EV-TRM2000-SL	250-035-932 FD35EV-TRM2000-UM	-	-
	2730mm	250-033-817 FD35EV-TRM2730-SL	250-033-820 FD35EV-TRM2730-UM	250-033-823 FD35EV-TRM2730-WT	-
	3000mm	250-035-930 FD35EV-TRM3000-SL	250-035-933 FD35EV-TRM3000-UM	-	-
	3640mm	250-033-818 FD35EV-TRM3640-SL	250-033-821 FD35EV-TRM3640-UM	250-033-824 FD35EV-TRM3640-WT	-
	4000mm	250-035-931 FD35EV-TRM4000-SL	250-035-934 FD35EV-TRM4000-UM	-	250-048-949 FD35EV-TRM4000-BL
Recessed Mount	1820mm	250-033-834 FD35EV-TRH1820-SL	250-033-837 FD35EV-TRH1820-UM	250-033-840 FD35EV-TRH1820-WT	250-048-946 FD35EV-TRH1820-BL
	2000mm	250-035-941 FD35EV-TRH2000-SL	250-035-944 FD35EV-TRH2000-UM	-	-
	2730mm	250-033-835 FD35EV-TRH2730-SL	250-033-838 FD35EV-TRH2730-UM	250-033-841 FD35EV-TRH2730-WT	-
	3000mm	250-035-942 FD35EV-TRH3000-SL	250-035-945 FD35EV-TRH3000-UM	-	-
	3640mm	250-033-836 FD35EV-TRH3640-SL	250-033-839 FD35EV-TRH3640-UM	250-033-842 FD35EV-TRH3640-WT	-
	4000mm	250-035-943 FD35EV-TRH4000-SL	250-035-946 FD35EV-TRH4000-UM	-	250-048-947 FD35EV-TRH4000-BL

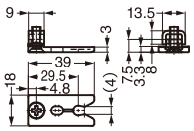
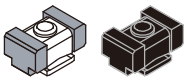
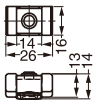
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

PARTS TABLE

Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FD35EV-SP (P.672~P.689)	**TWO-WAY SOFT CLOSE (Recessed Type)** Vertical Adjustment ±4 Horizontal Adjustment ±2		**Two-way soft closer features:** **- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** **- Bounce-Protection Nuts Included.** • Main material: Zinc alloy/polyacetal (POM) • Finish: Chromate (trivalent)/grey Included screws: Size 3.8 x 40 cross-recessed pan head tapping screws (3 pcs)		**250-055-997** **FD35SP-WRH-DSC**
	SPANNER 	–	**Use to tighten the hex heads of the spring-up prevention nuts in the Upper Roller, Two-Way Soft Close and Single Soft Close. One is included with the Two-Way Soft Close.** • Material: Steel • Finish: Coloured chromate finish (trivalent)		**250-052-629** **FDSP-SP**
	UPPER ROLLER (compatible with Recessed Type Two-Way Soft Close) Vertical Adjustment ±4 Horizontal Adjustment ±2 		**- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** **- Bounce-Protection Nuts Included.** • Material: Zinc alloy/polyacetal (POM) • Finish: Chromate (trivalent)/grey Included screws: Size 3.8 x 40 cross-recessed flat head tapping screws (3 pcs)		**250-055-999** **FD35SP-WRH-N**
	SINGLE SOFT CLOSE Vertical Adjustment ±4 Horizontal Adjustment ±2 		**One-way soft closer features:** **- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** **- Bounce-Protection Nuts Included.** • Main Material: Polyacetal (POM) • Colour: Grey Included screws: Size 3.8 x 40 cross-recessed pan head tapping screws (3 pcs)		**250-055-998** **FD35SP-WRH-SC**
	SPANNER 	–	**Use to tighten the hex heads of the spring-up prevention nuts in the Upper Roller, Two-Way Soft Close and Single Soft Close. One is included with the Single Soft Close.** • Material: Steel • Finish: Chromate (trivalent)		**250-052-629** **FDSP-SP**
	UPPER ROLLER (Recessed Type) Vertical Adjustment ±4 Horizontal Adjustment ±2 		**- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** • Material: Zinc alloy/polyacetal (POM) • Finish: Chromate (trivalent)/grey Included screws: Size 3.8 x 40 cross-recessed pan head tapping screws (3 pcs)		**250-056-000** **FD35SP-WRH**
	UPPER CATCH  White Grey Dark Brown		**A dedicated upper catch to hold sliding doors closed.** • Material: Steel/polyacetal (POM) • Finish: Coloured chromate finish/ white, grey, dark brown	White Grey Dark Brown	**250-025-698** **FD30-HTST-WT** **250-019-970** **FD30-HTST-GR** **250-019-969** **FD30-HTST-DB**
	LOWER GUIDE (with Roller) 		**A lower guide with a roller.** • Material: Stainless steel (SUS430)/polyacetal • Colour: Plain/natural Included screws: Size 4 x 20 cross-recessed flat head tapping screws (stainless steel) (4 pcs)		**250-029-718** **FD50-BGR18**
	TWO-WAY SOFT CLOSE (Surface Type) PAT 		**Two-way soft closer features:** **- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** • Main material: Zinc alloy/polyacetal (POM) • Finish: Coloured chromate finish/grey Included screws: Size 4 x 40 cross-recessed flat head tapping screws (4 pcs)		**250-048-913** **FD35EV-WRM-DSC**
	SPANNER (Surface Mount) 	–	**Use to tighten the hex heads of the spring-up prevention nuts in the Upper Roller, Two-Way Soft Close and Single Soft Close. One is included with the Two-Way Soft Close.** • Material: Steel • Finish: Coloured chromate finish (trivalent)		**250-048-915** **FD35EV-WRM-SP8**
	RETROFIT TRIGGER  Silver  Black Included with the Two-Way Soft Close (recessed type) Also available for separate purchase.		**A trigger to initialize the Two-Way Soft Close mechanism. One is included with the Two-Way Soft Close.** • Material: Steel • Finish: Chromate (trivalent) Included screws: Size 4 x 30 cross-recessed flat head tapping screws (countersunk head diameter 6, chromate finish (trivalent)) (2 pcs)	Silver Black	**250-056-252** **FD35SP-TRG-SL** **250-056-254** **FD35SP-TRG-BL**
	TRIGGER INSTALLATION JIG PAT.P 	Included with the Two-Way Soft Close (recessed type) but also available for separate purchase. Read the precautions for installation for information on using this product.	**A jig set to install the FD35 retrofit trigger on the rail. One is included with the Two-Way Soft Close.** • Material: Polyacetal (POM) • Colour: Red		**250-033-815** **FD35EV-TRJ**
	Upper Roller (Surface Type) 		**The door can be adjusted vertically and horizontally through controls at the door edge.** • Main material: Zinc alloy/polyacetal (POM) • Finish: Coloured chromate finish/grey Included screws: Size 4 x 40 cross-recessed flat head tapping screws (4 pcs)		**250-048-914** **FD35EV-WRM**

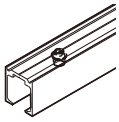
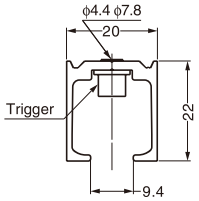
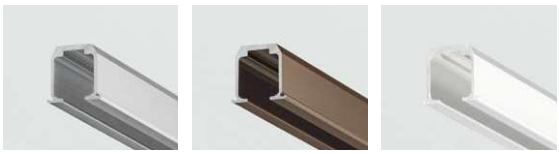
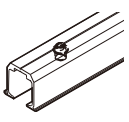
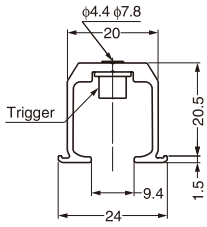
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

PARTS TABLE

Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FD35EV·SP (P.672~P.689)	**UPPER CATCH (Surface type)**  White Grey Dark Brown		**A upper catch to hold sliding doors closed.** •Material: Steel/Polyacetal (POM) •Finish: Coloured chromate/ White, grey, dark brown	White	250-048-918 FD35EV-WRM-HTST-WT
				Grey	250-048-917 FD35EV-WRM-HTST-GR
				Dark Brown	250-048-916 FD35EV-WRM-HTST-DB
	BUMPER BLOCK  Grey Black		**A bumper that can be used with the Two-Way Soft Close or Single Soft Close.** •Material: Steel/ethylene propylene rubber (EPDM) •Finish: Coloured chromate finish (trivalent)/ Grey, black	Grey	250-034-114 FD35EV-HBB-GR
				Black	250-050-835 FD35EV-HBB-BL

SOFT CLOSE UPPER TRACK

An end plate to cover the end of the top rail and a cleaner to remove shavings left over after cutting the upper track are also available.

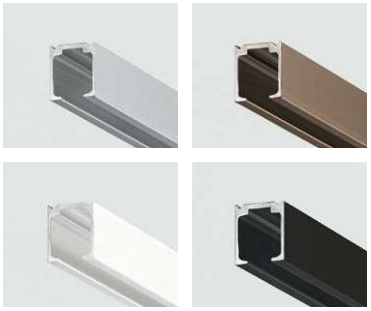
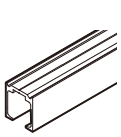
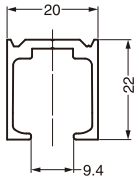
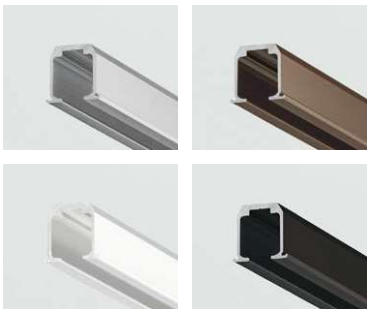
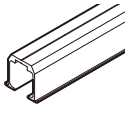
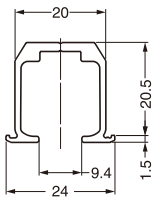
Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FD35EV·SP (P.672~P.689)	**SOFT CLOSE UPPER TRACK (Surface mount)**    **Caution** Do not cut the trigger end. This will cause the soft closing mechanism to stop working.	**A dedicated soft close trigger is installed for easy mounting. This surface mount upper track has a rail width of 20 mm.** •Material Aluminium alloy •Finish Silver: Silver anodized + coating/clear Amber: Amber anodized + coating/clear White: Anodized + coating/white Recommended Screw Size 3.5 x 25 cross-recessed flat head tapping screws	Silver	Length 1820 mm	250-033-825 FD35EV-TRM1820SC-SL
					Length 2000 mm	250-035-935 FD35EV-TRM2000SC-SL
					Length 2730 mm	250-033-826 FD35EV-TRM2730SC-SL
					Length 3000 mm	250-035-936 FD35EV-TRM3000SC-SL
					Length 3640 mm	250-033-827 FD35EV-TRM3640SC-SL
					Length 4000 mm	250-035-937 FD35EV-TRM4000SC-SL
				Amber	Length 1820 mm	250-033-828 FD35EV-TRM1820SC-UM
					Length 2000 mm	250-035-938 FD35EV-TRM2000SC-UM
					Length 2730 mm	250-033-829 FD35EV-TRM2730SC-UM
					Length 3000 mm	250-035-939 FD35EV-TRM3000SC-UM
					Length 3640 mm	250-033-830 FD35EV-TRM3640SC-UM
					Length 4000 mm	250-035-940 FD35EV-TRM4000SC-UM
				White	Length 1820 mm	250-033-831 FD35EV-TRM1820SC-WT
					Length 2730 mm	250-033-832 FD35EV-TRM2730SC-WT
					Length 3640 mm	250-033-833 FD35EV-TRM3640SC-WT
	SOFT CLOSE UPPER TRACK (Recessed mount)    **Caution** Do not cut the trigger end.This will cause the soft closing mechanism to stop working.	**A dedicated soft close trigger is installed for easy mounting. This recessed upper track has a rail width of 20 mm.** •Material Aluminium alloy •Finish Silver: Silver anodized + coating/clear Amber: Amber anodized + coating/clear White: Anodized + coating/white Recommended Screw Size 3.5 x 25 cross-recessed flat head tapping screws	Silver	Length 1820 mm	250-033-843 FD35EV-TRH1820SC-SL
					Length 2000 mm	250-035-947 FD35EV-TRH2000SC-SL
					Length 2730 mm	250-033-844 FD35EV-TRH2730SC-SL
					Length 3000 mm	250-035-948 FD35EV-TRH3000SC-SL
					Length 3640 mm	250-033-845 FD35EV-TRH3640SC-SL
					Length 4000 mm	250-035-949 FD35EV-TRH4000SC-SL
				Amber	Length 1820 mm	250-033-846 FD35EV-TRH1820SC-UM
					Length 2000 mm	250-035-950 FD35EV-TRH2000SC-UM
					Length 2730 mm	250-033-847 FD35EV-TRH2730SC-UM
					Length 3000 mm	250-035-951 FD35EV-TRH3000SC-UM
					Length 3640 mm	250-033-848 FD35EV-TRH3640SC-UM
					Length 4000 mm	250-035-952 FD35EV-TRH4000SC-UM
				White	Length 1820 mm	250-033-849 FD35EV-TRH1820SC-WT
					Length 2730 mm	250-033-850 FD35EV-TRH2730SC-WT
					Length 3640 mm	250-033-851 FD35EV-TRH3640SC-WT

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SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

STANDARD UPPER TRACK

An end plate to cover the end of the top rail and a cleaner to remove shavings left over after cutting the upper track are also available.

Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FD35EV·SP (P.672~P.689)	**UPPER TRACK: STANDARD (Surface mount)**	  	**This surface mount upper track has a rail width of 20 mm.** •Material Aluminium alloy •Finish Silver: Silver anodized + coating/clear Amber: Amber anodized + coating/clear White: Anodized + coating/white Black: Black Anodized + Coating/Clear Recommended Screw Size 3.5 x 25 cross-recessed flat head tapping screws	Silver	Length 1820 mm	**250-033-816** **FD35EV-TRM1820-SL**
					Length 2000 mm	**250-035-929** **FD35EV-TRM2000-SL**
					Length 2730 mm	**250-033-817** **FD35EV-TRM2730-SL**
					Length 3000 mm	**250-035-930** **FD35EV-TRM3000-SL**
					Length 3640 mm	**250-033-818** **FD35EV-TRM3640-SL**
					Length 4000 mm	**250-035-931** **FD35EV-TRM4000-SL**
				Amber	Length 1820 mm	**250-033-819** **FD35EV-TRM1820-UM**
					Length 2000 mm	**250-035-932** **FD35EV-TRM2000-UM**
					Length 2730 mm	**250-033-820** **FD35EV-TRM2730-UM**
					Length 3000 mm	**250-035-933** **FD35EV-TRM3000-UM**
					Length 3640 mm	**250-033-821** **FD35EV-TRM3640-UM**
					Length 4000 mm	**250-035-934** **FD35EV-TRM4000-UM**
				White	Length 1820 mm	**250-033-822** **FD35EV-TRM1820-WT**
					Length 2730 mm	**250-033-823** **FD35EV-TRM2730-WT**
					Length 3640 mm	**250-033-824** **FD35EV-TRM3640-WT**
				Black	Length 1820 mm	**250-048-948** **FD35EV-TRM1820-BL**
					Length 4000 mm	**250-048-949** **FD35EV-TRM4000-BL**
	UPPER TRACK: STANDARD (Recessed mount)	  	**This recessed upper track has a rail width of 20 mm.** •Material Aluminium alloy •Finish Silver: Silver anodized + coating/clear Amber: Amber anodized + coating/clear White: Anodized + coating/white Black: Black Anodized + Coating/Clear Recommended Screw Size 3.5 x 25 cross-recessed flat head tapping screws	Silver	Length 1820 mm	**250-033-834** **FD35EV-TRH1820-SL**
					Length 2000 mm	**250-035-941** **FD35EV-TRH2000-SL**
					Length 2730 mm	**250-033-835** **FD35EV-TRH2730-SL**
					Length 3000 mm	**250-035-942** **FD35EV-TRH3000-SL**
					Length 3640 mm	**250-033-836** **FD35EV-TRH3640-SL**
					Length 4000 mm	**250-035-943** **FD35EV-TRH4000-SL**
				Amber	Length 1820 mm	**250-033-837** **FD35EV-TRH1820-UM**
					Length 2000 mm	**250-035-944** **FD35EV-TRH2000-UM**
					Length 2730 mm	**250-033-838** **FD35EV-TRH2730-UM**
					Length 3000 mm	**250-035-945** **FD35EV-TRH3000-UM**
					Length 3640 mm	**250-033-839** **FD35EV-TRH3640-UM**
					Length 4000 mm	**250-035-946** **FD35EV-TRH4000-UM**
				White	Length 1820 mm	**250-033-840** **FD35EV-TRH1820-WT**
					Length 2730 mm	**250-033-841** **FD35EV-TRH2730-WT**
					Length 3640 mm	**250-033-842** **FD35EV-TRH3640-WT**
				Black	Length 1820 mm	**250-048-946** **FD35EV-TRH1820-BL**
					Length 4000 mm	**250-048-947** **FD35EV-TRH4000-BL**

MOUNTING SCREW FOR UPPER TRACK

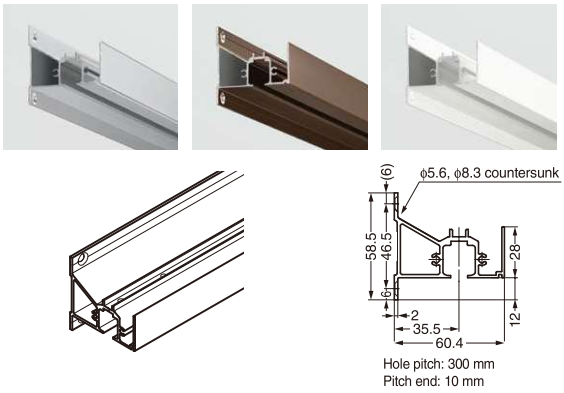
Compatible Products	Name	Specifications	Item Code / Item Name
FD35EV·SP (P.672~P.689)	**Cross-recessed countersunk tapping screws 3.5×25 (black) Set of 100 pieces**  ×100	•Material Steel •Finish Black chromate (trivalent)	**250-052-702** **FD35EV-TR-SC3525-BL**

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LATERAL OPENING DOOR
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SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

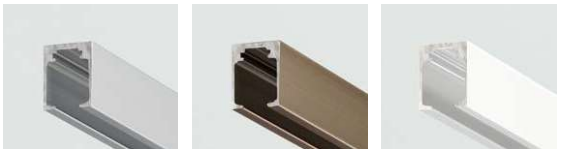
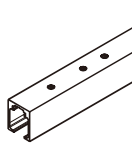
OUTSET UPPER TRACK

A side cover to cover the end of the top rail and a cleaner to remove shavings left over after cutting the upper track are also available.

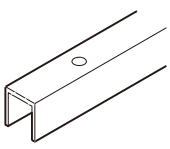
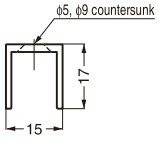
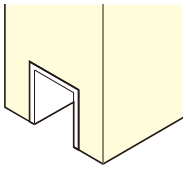
Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FD35SP	OUTSET UPPER TRACK		• Material Aluminium alloy • Finish: Silver anodized + coating/clear Included screws Size 4 x 40 cross-recessed flat head tapping screws	Silver	Length 2120 mm	250-041-957 FD35EV-TRA2120-SL
					Length 2420 mm	250-041-960 FD35EV-TRA2420-SL
					Length 2720 mm	250-041-963 FD35EV-TRA2720-SL
			• Material Aluminium alloy • Finish: Amber anodized + coating/clearIncluded screws Size 4 x 40 cross-recessed flat head tapping screws (antique copper finish)	Amber	Length 2120 mm	250-041-958 FD35EV-TRA2120-UM
					Length 2420 mm	250-041-961 FD35EV-TRA2420-UM
					Length 2720 mm	250-041-964 FD35EV-TRA2720-UM
			• Material Aluminium alloy • Finish: Anodized + coating/white Included screws Size 4 x 40 cross-recessed flat head tapping screws (flat head: coating/white)	White	Length 2120 mm	250-041-959 FD35EV-TRA2120-WT
					Length 2420 mm	250-041-962 FD35EV-TRA2420-WT
					Length 2720 mm	250-041-965 FD35EV-TRA2720-WT

POCKET DOOR UPPER TRACK

A cleaner to remove shavings left over after cutting the upper track is also available.

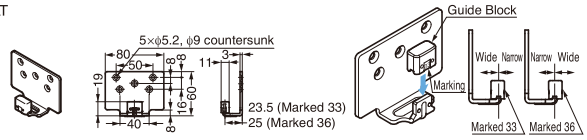
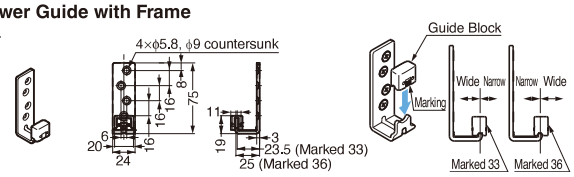
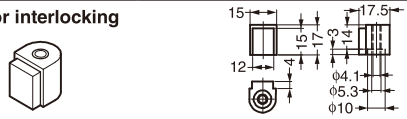
Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FD35SP	POCKET DOOR UPPER TRACK (Surface mount)	  See the Pocket Door Upper Track Dimensions for details such as the hole size.	• Material Aluminium alloy • Finish Silver anodized + coating/clear Included screws Size 3.5 x 25 cross-recessed flat head tapping screws (chromate finish (trivalent))	Silver	Length 860 mm	250-035-283 FD30-35EV-TRMP860-SL
					Length 1260 mm	250-035-284 FD30-35EV-TRMP1260-SL
					Length 1860 mm	250-035-285 FD30-35EV-TRMP1860-SL
					Length 2760 mm	250-035-286 FD30-35EV-TRMP2760-SL
					Length 3960 mm	250-035-287 FD30-35EV-TRMP3960-SL
			• Material Aluminium alloy • Finish Amber anodized + coating/clear Included screws Size 3.5 x 25 cross-recessed flat head tapping screws (antique copper finish)	Amber	Length 860 mm	250-035-288 FD30-35EV-TRMP860-UM
					Length 1260 mm	250-035-289 FD30-35EV-TRMP1260-UM
					Length 1860 mm	250-035-290 FD30-35EV-TRMP1860-UM
					Length 2760 mm	250-035-291 FD30-35EV-TRMP2760-UM
					Length 3960 mm	250-035-292 FD30-35EV-TRMP3960-UM
			• Material Aluminium alloy • Finish Anodized + coating/white Included screws Size 3.5 x 25 cross-recessed flat head tapping screws (flat head: coating/white)	White	Length 860 mm	250-035-293 FD30-35EV-TRMP860-WT
					Length 1260 mm	250-035-294 FD30-35EV-TRMP1260-WT
					Length 1860 mm	250-035-295 FD30-35EV-TRMP1860-WT
					Length 2760 mm	250-035-296 FD30-35EV-TRMP2760-WT
					Length 3960 mm	250-035-297 FD30-35EV-TRMP3960-WT

RECOMMENDED OPTIONS

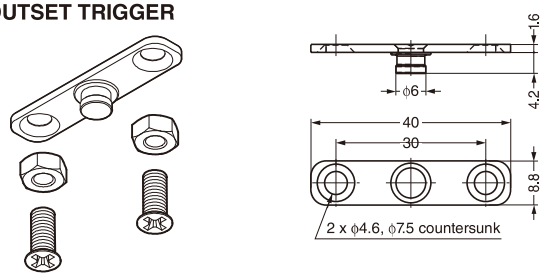
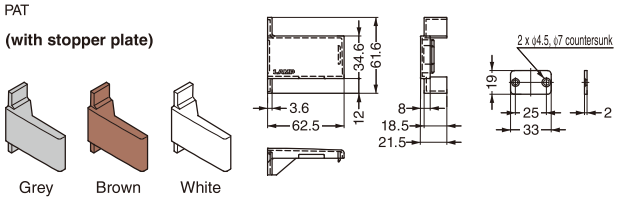
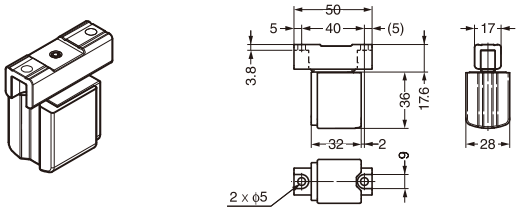
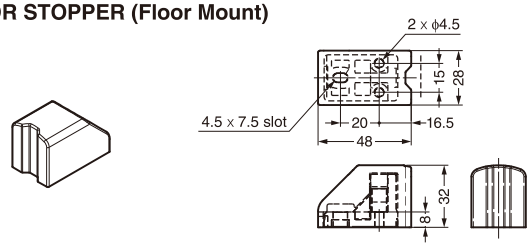
Compatible Products	Name	Dimensions	Mounting Example	Specifications		Item Code / Item Name
FD35SP	EMBEDDED LOWER GUIDE RAIL	 		**Recessed rail** • Material: Aluminium alloy • Finish: Silver anodized + coating /clear	Length 1000 mm	250-021-996 FD30-HBRT1000SIL
					Length 1500 mm	250-019-971 FD30-HBRT1500SIL
	For all products in the FD Series.					

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PARTS FOR SYNCHRO MODEL

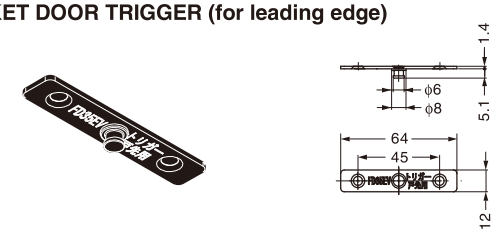
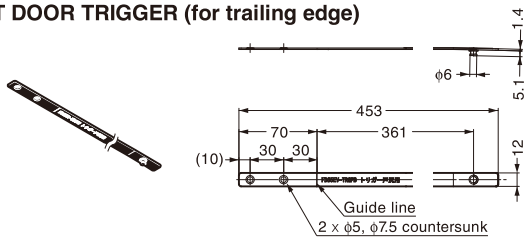
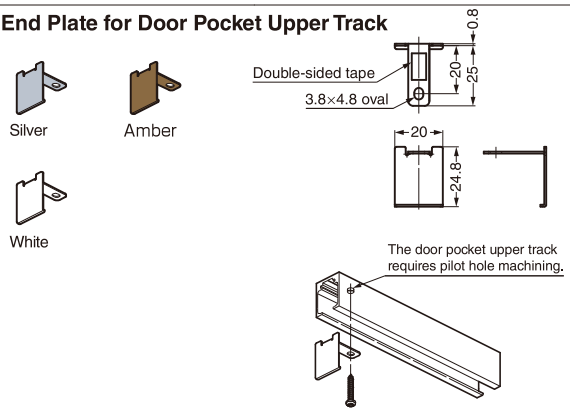
Compatible Products	Name	Dimensions	Specifications	Item Code / Item Name
FD35SP (P.672~P.689)	**Door-mount Lower Guide** PAT		**Guide mounted on the driven door of interlocking sliding doors. Supports two types of door thickness, as the block orientation can be changed by 180° in assembly.** Door thickness 30 to 34mm: Imprint 33 Door thickness 35 to 38mm: Imprint 36 • Main material: Stainless steel (SUS304)/ Polyacetal (POM) • Finish: Barrel polished/Gray	**250-022-262** **FD30-HRDG**
	Lower Guide with Frame PAT		**Guide with frame which moves the driven door of interlocking sliding doors. Supports two types of door thickness, as the block orientation can be changed by 180° in assembly.** Door thickness 30 to 34mm: Imprint 33 Door thickness 35 to 38mm: Imprint 36 • Main material: Stainless steel (SUS304)/ Polyacetal (POM) • Finish: Barrel polished/Gray	**250-022-263** **FD30-HBGF**
	Lower guide block for interlocking sliding doors.		**Lower guide block for interlocking sliding doors.** • Main material: Ethylene propylene rubber (EPDM) • Colour: Black	**250-022-264** **FD30-HRDB**

OUTSET PARTS

Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FD35SP (P.672~P.689)	**OUTSET TRIGGER**		**The retrofit trigger included with the Two-Way Soft Close includes installation screws and nuts for the Outset Upper Track.** • Material: Steel • Finish: Chromate (trivalent) Trigger (2 pcs) Included: Size 4 x 10 cross-recessed flat head screws (flat head ϕ6) (2 pcs) Hex M4 nuts (4 pcs)		**250-056-251** **FD35SP-TRA-TRG**
	SIDE COVER (for Outset Track) PAT **(with stopper plate)**		**OUTSET TRACK COVER** • Material: Steel/ABS resin • Finish/Colour: Chromate finish/grey, brown, white Included screws: Size 4 x 25 cross-recessed flat head S-Tite screws (flat head ϕ6) (4 pcs)	Grey (1 each on left and right)	**250-022-273** **FD30-HASC-GR**
				Brown (1 each on left and right)	**250-022-449** **FD30-HASC-BR**
				White (1 each on left and right)	**250-025-640** **FD30-HASC-WT**
	DOOR STOPPER (for Upper Track)		**A door stopper that can be installed on the upper track. See the Stacking Dimensions if using an upper track other than the Outset Upper Track.** • Material: Zinc alloy/elastomer • Finish/colour: Silver coating/grey Included: Size 4 x 25 cross-recessed pan head tapping screws (2 pcs) Size M4 x 16 cross-recessed pan head screws (2 pcs) Size M4 hex nuts (2 pcs)		**250-041-955** **FD35EV-TRA-STP**
	DOOR STOPPER (Floor Mount)		**A floor mounting door stopper for doors that do not touch the top frame.** • Material: Zinc alloy (ZDC)/elastomer • Finish/colour: Coloured chromate finish (trivalent)/grey Included screws: Size 4 x 30 cross-recessed pan head tapping screws (3 pcs)		**250-041-956** **FD35EV-FSTP**

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

POCKET DOOR PARTS

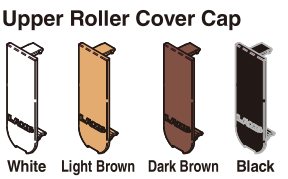
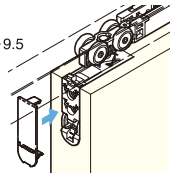
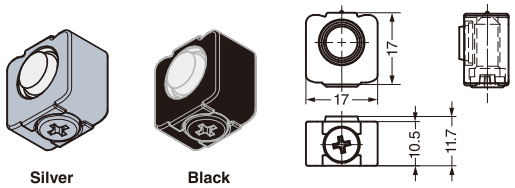
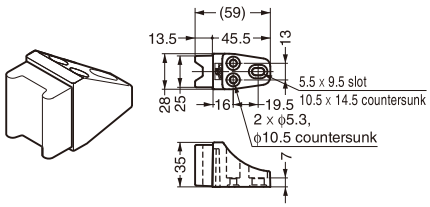
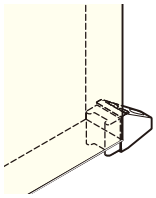
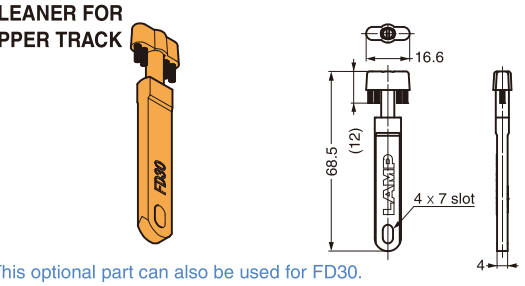
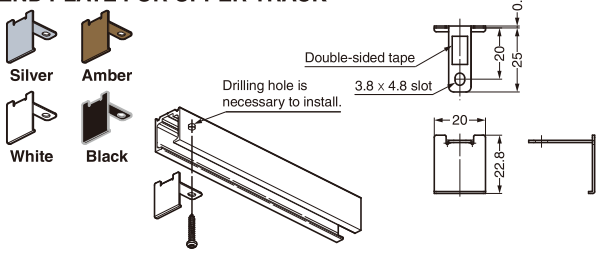
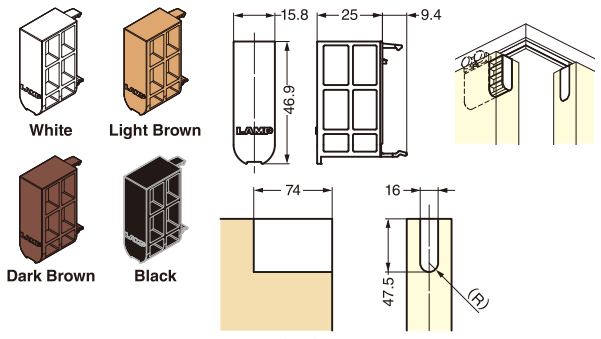
Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FD35SP (P.672~P.689)	**POCKET DOOR TRIGGER (for leading edge)**		**A trigger for the leading edge of the pocket door.** • Material: Steel • Finish: Black chromate finish (trivalent) Included screws: Size 4 x 30 cross-recessed flat head tapping screws (countersunk head diameter 6, black chromate finish (trivalent)) (2 pcs)		**250-035-299** **FD35EV-TRGPF**
	POCKET DOOR TRIGGER (for trailing edge)		**A trigger for the trailing edge of the pocket door.** • Material: Steel • Finish: Black chromate finish (trivalent) Included screws: Size 4 x 30 cross-recessed flat head tapping screws (countersunk head diameter 6, black chromate finish (trivalent)) (2 pcs)		**250-035-298** **FD35EV-TRGPB**
	Options **End Plate for Door Pocket Upper Track** Silver Amber White		**A cover concealing the end of the FD35EV Dedicated Door Pocket Upper Track (surface mount/ recessed mount: P.693).** • Material: Steel (SECC) • Finish: Baked acrylic coating Included screws: Cross-recessed panhead tapping screws 3.5 × 20 Caution: Cannot be used as a stopper for the upper track end.	Silver	**250-044-999** **FD30-35EV-TRPEP-SL**
				Amber	**250-045-000** **FD30-35EV-TRPEP-UM**
				White	**250-045-001** **FD30-35EV-TRPEP-WT**

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LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

OPTIONAL ITEMS

FD35EV·SP (P.672~P.689)

Compatible Products	Name	Dimensions	Mounting Example	Specifications		Item Code / Item Name
FD35EV·SP (P.672~P.689)	**Upper Roller Cover Cap** White Light Brown Dark Brown Black			**Cover cap for upper roller.** • Material: Polypropylene (PP) • Colour: White, light brown, dark brown, black	White Light Brown Dark Brown Black	250-052-632 FDSP-WRH-CP-WT 250-052-633 FDSP-WRH-CP-LBR 250-052-634 FDSP-WRH-CP-DBR 250-056-482 FDSP-WRH-CP-BL
	SPACER BLOCK Silver Black			**Ideal for sliding doors with a 90° outer corner storage.** **Can be used with the Two-Way Soft Close (recessed type) if the upper track is recessed in the upper frame.** Cannot be used with the Pocket Door Upper Track. **See the Outer Corner Spacer Block for an illustration of the storage and details on the installation method.** • Main material: Zinc alloy/polyurethane (PUR) • Finish: Coloured chromate finish (trivalent) Included screws Size 4.5 x 40 cross-recessed pan head tapping screw (1 pc)	Silver Black	250-041-235 FD35EV-HSPB-SL 250-048-945 FD35EV-HSPB-BL
	DOOR STOPPER (FLOOR MOUNT) *This optional part can also be used for FD30.			**A floor mounting door stopper for doors that do not touch the top frame.** • Material: Zinc alloy/rubber • Finish: Silver painting/black Included screws Size 4 x 30 cross-recessed binding head tapping screw (3 pcs)		250-018-497 FD30-HTKY
	CLEANER FOR UPPER TRACK *This optional part can also be used for FD30.			**A brush for cleaning debris from the FD35EV upper track, such as shavings left over after cutting.** • Material: Polypropylene (PP)/polyamide (PA) • Colour: Orange		250-025-992 FD30-TRC
	END PLATE FOR UPPER TRACK Silver Amber White Black			**A cover to conceal the end of the FD35EV upper track.** • Material: Steel (SECC) • Finish: Baked acrylic finish Included screws Size 3.5 x 20 cross-recessed pan head tapping screws Caution: Cannot be used with the Pocket Door Upper Track as the cross-sectional dimensions are different.	Silver Amber White Black	250-036-278 FD35EV-TREP-SL 250-036-279 FD35EV-TREP-UM 250-036-280 FD35EV-TREP-WT 250-048-960 FD35EV-TREP-BL
	Spacer Cap (for 90° Convex Corners) White Light Brown Dark Brown Black *In combination with Upper Roller FD25SP-WRH			**This spacer creates distance between the door end and the roller, enabling the door to fit in a 90° convex corner.** Caution: Be sure to use with the Soft Closer. • Material: Polypropylene (PP) • Colour: White, light brown, dark brown, black	White Light Brown Dark Brown Black	250-056-038 FDSP-WRH-SCP25-WT 250-056-039 FDSP-WRH-SCP25-LBR 250-056-040 FDSP-WRH-SCP25-DBR 250-056-041 FDSP-WRH-SCP25-BL

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- Keyword Search + Product Filters
- Installation Instructions
- New Product Information
- CAD Data (2D, 3D)
- Customer Solution Case Studies
- Product Videos
- Hardware Basics
- Selection Tools

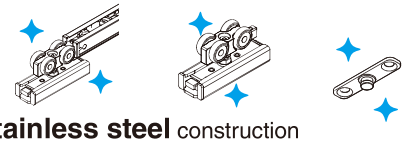
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Application Example

Ideal for Moisture-prone Areas/ Areas with High Humidity



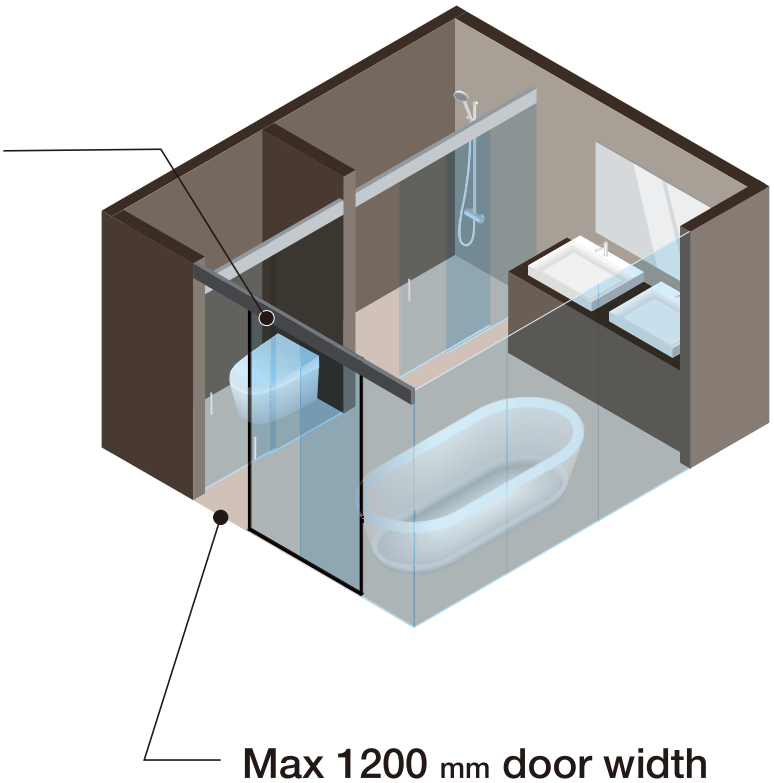
Stainless steel construction for improved corrosion resistance

Passed 100,000 open/close cycles under high-temperature, high-humidity conditions (40°C, humidity 95%) in private testing using a constant-temperature test device.

High Durability for Public Facilities



In addition to normal open/close cycles tests, impact resistance and forced closing tests have also been conducted to ensure product can be used in hotels, health facilities for the elderly, and other public facilities.

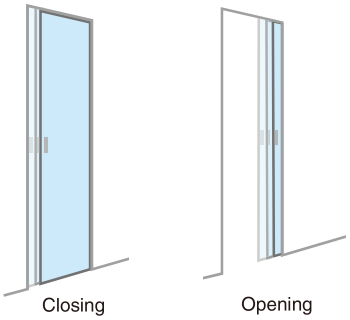


Max 1200 mm door width

Opens the necessary width of 800 mm for wheel chair use.

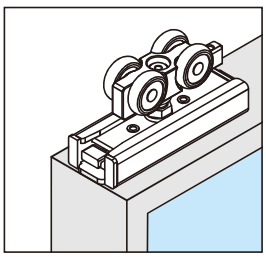
Note: This product is moisture resistant, not water proof, so it cannot be used in places frequently exposed to water.

Two-way Soft and Self Close



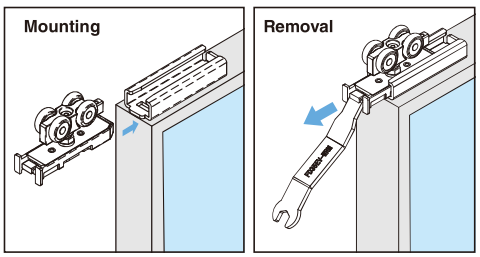
Surface Mount on Aluminium Frame Doors

No door mortising



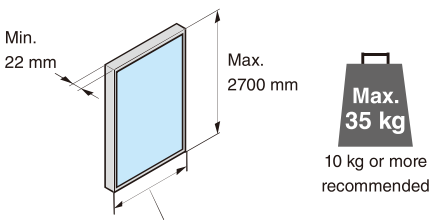
The upper roller is mounted on the surface of aluminum frames with screws.

One-touch door hanging



No tools required for mounting the door.
Simply slide door on to the upper roller.
Door can be removed easily with the optional tool or a flathead screw driver.

Applicable Door Size



10 kg or more recommended

590~1200 mm (Height : <2400 mm)
700~1200 mm (Height : 2401~2700 mm)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD35EVS

Moisture Resistant/Two-way Damper/
Surface Mounted Upper Roller NEW

Latest Info

- Moisture-resistant model for areas with high humidity.
- Cannot be used in shower stalls or areas directly exposed to water.
- Passed 100,000 open/close tests under 40°C / 95% humidity conditions.

Movement Features	Door Size (per door)	Adjustment
Two-Way Damper	Min. 22 mm / Max. 2700 mm 590~1200 mm (Height : <2400 mm) 700~1200 mm (Height : 2401~2700 mm) MAX 35kg 10 kg or more recommended	-2 mm +4 mm

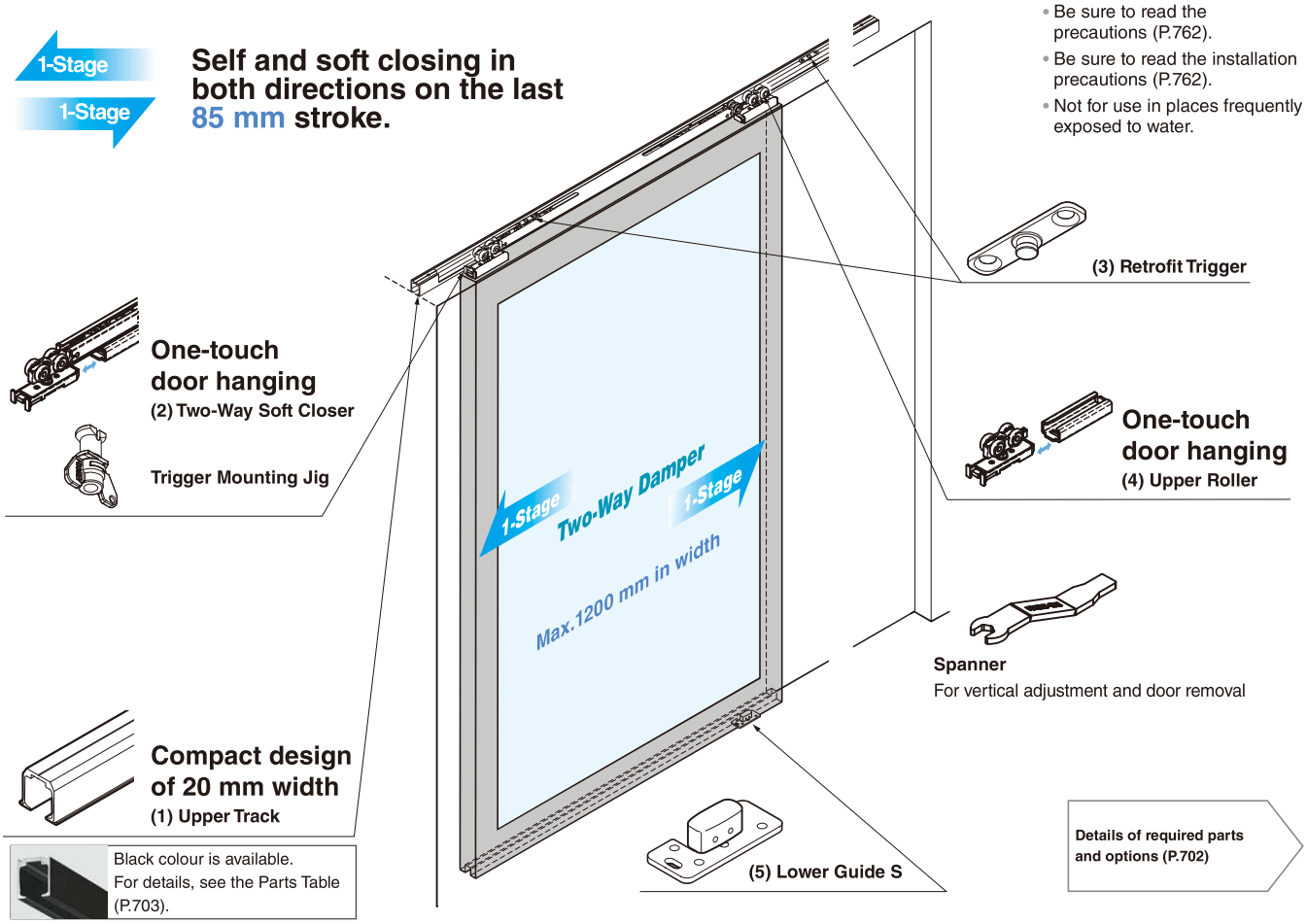
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INSTRUCTION

Remarks
- Be sure to read the precautions (P.762).
- Be sure to read the installation precautions (P.762).
- Not for use in places frequently exposed to water.

1-Stage
1-Stage

Self and soft closing in both directions on the last 85 mm stroke.



One-touch door hanging
(2) Two-Way Soft Closer

Trigger Mounting Jig

(3) Retrofit Trigger

One-touch door hanging
(4) Upper Roller

Spanner
For vertical adjustment and door removal

Compact design of 20 mm width
(1) Upper Track

Black colour is available. For details, see the Parts Table (P.703).

(5) Lower Guide S

Details of required parts and options (P.702)

Parts Table

For details on the type of upper track, see the Parts Table (P.703).

Parts Item Code Item Name	Selection (1) Upper Track Surface Mount / Recessed Mount	Required (2) Two-Way Soft Closer* 250-048-911 FD35EVS-WRM-DSC	(3) Retrofit Trigger included with (2)	(4) Upper Roller 250-048-912 FD35EVS -WRM	(5) Lower Guide S 250-020-773 FD50-BG18	(6) Guide Track Recessed on door bottom 250-019-971 FD30-HBRT1500SIL
Single Sliding	1820 mm x 1 pc	1 pc	2 pcs	1 pc	1 pc	1 pc
Overlapping Sliding	1820 mm x 2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs

Parts Set
Item Code: 250-047-341
Item Name: FD35EVSDHCMP
x 2 (Overlapping Sliding)

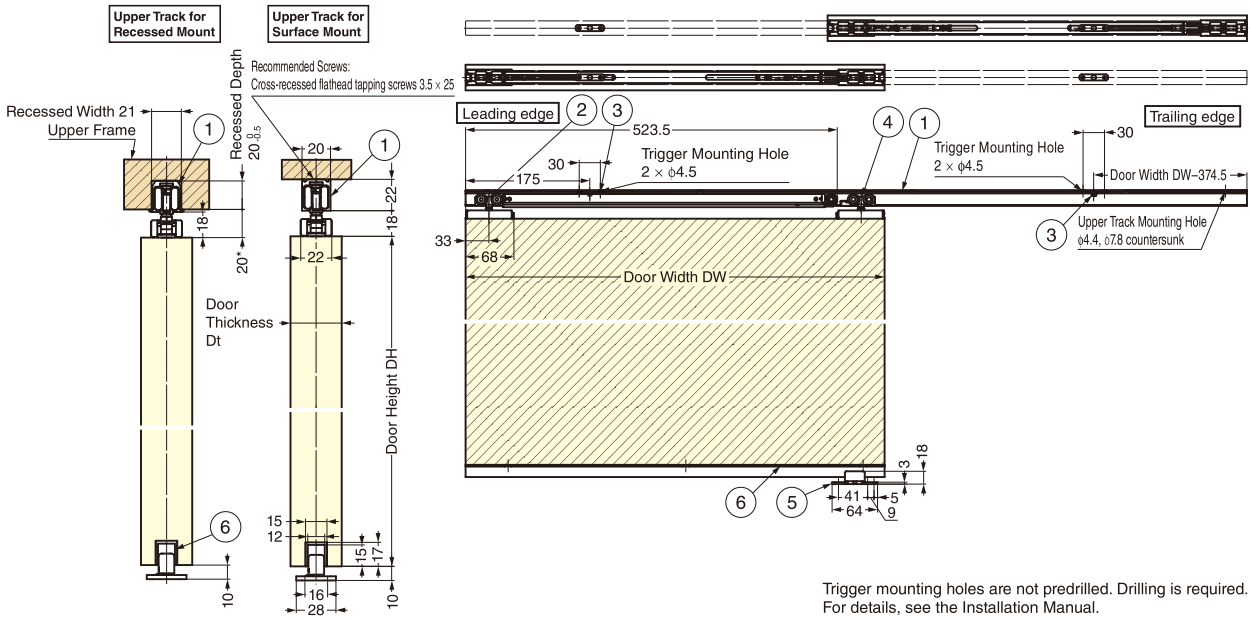
* Includes Retrofit Trigger, Trigger Mounting Jig, and Spanner. Also available for individual purchase. (P.702)

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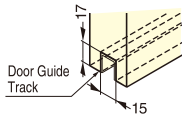
Installation Example

* The door position can be adjusted vertically within a range of -2 mm to +4 mm.

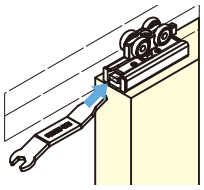


Trigger mounting holes are not predrilled. Drilling is required.
For details, see the Installation Manual.

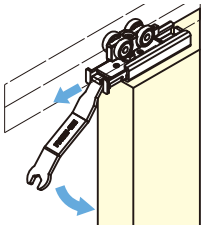
Cut Out Dimensions



Removing the Door

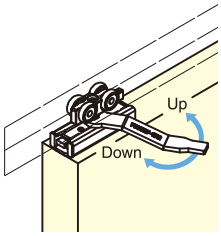


Insert the flat side of the spanner into the upper roller lever part. (A flathead screwdriver can also be used.)



Push the spanner up to remove the upper roller.

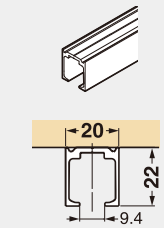
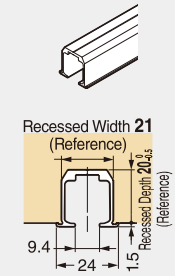
Door Adjustment



Using the spanner, rotate the base of the upper roller hanging bolt to adjust.

Type of Upper Track

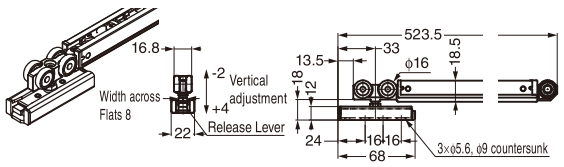
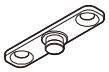
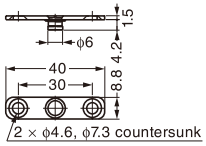
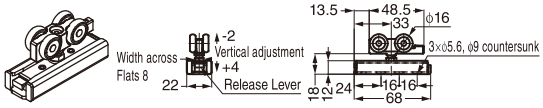
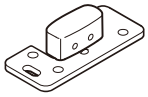
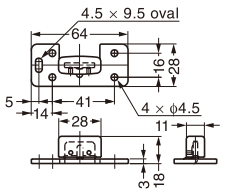
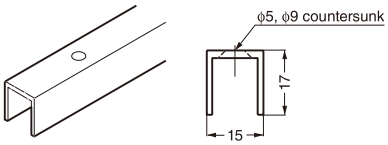
Recommended screws: Cross-recessed flathead tapping screws 3.5 × 25

(1) Upper Track	Length mm	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name	Black Item Code Item Name
Surface Mount 	1820	250-033-816 FD35EV-TRM1820-SL	250-033-819 FD35EV-TRM1820-UM	250-033-822 FD35EV-TRM1820-WT	250-048-948 FD35EV-TRM1820-BL
	2000	250-035-929 FD35EV-TRM2000-SL	250-035-932 FD35EV-TRM2000-UM	–	–
	2730	250-033-817 FD35EV-TRM2730-SL	250-033-820 FD35EV-TRM2730-UM	250-033-823 FD35EV-TRM2730-WT	–
	3000	250-035-930 FD35EV-TRM3000-SL	250-035-933 FD35EV-TRM3000-UM	–	–
	3640	250-033-818 FD35EV-TRM3640-SL	250-033-821 FD35EV-TRM3640-UM	250-033-824 FD35EV-TRM3640-WT	–
	4000	250-035-931 FD35EV-TRM4000-SL	250-035-934 FD35EV-TRM4000-UM	–	250-048-949 FD35EV-TRM4000-BL
Recessed Mount 	1820	250-033-834 FD35EV-TRH1820-SL	250-033-837 FD35EV-TRH1820-UM	250-033-840 FD35EV-TRH1820-WT	250-048-946 FD35EV-TRH1820-BL
	2000	250-035-941 FD35EV-TRH2000-SL	250-035-944 FD35EV-TRH2000-UM	–	–
	2730	250-033-835 FD35EV-TRH2730-SL	250-033-838 FD35EV-TRH2730-UM	250-033-841 FD35EV-TRH2730-WT	–
	3000	250-035-942 FD35EV-TRH3000-SL	250-035-945 FD35EV-TRH3000-UM	–	–
	3640	250-033-836 FD35EV-TRH3640-SL	250-033-839 FD35EV-TRH3640-UM	250-033-842 FD35EV-TRH3640-WT	–
	4000	250-035-943 FD35EV-TRH4000-SL	250-035-946 FD35EV-TRH4000-UM	–	250-048-947 FD35EV-TRH4000-BL

PARTS TABLE

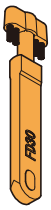
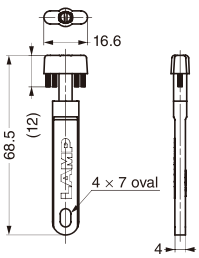
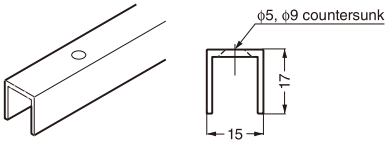
Some parts are made of stainless steel for high corrosion resistance.

FD35EVS (P.700)

Parts	Specifications		Item Code / Item Name
Two-Way Soft Closer 	**·Two-way soft and self close.** **·Surface mounted upper roller.** **·Vertical door adjustment.** • Main Material Stainless Steel (SUS430) /Polyacetal (POM) • Finish: Plain/Grey Screws Included: (Stainless Steel) Cross-recessed flathead screws M4 × 16, cross-recessed flathead tapping screws 4 × 40		**250-048-911** FD35EVS-WRM-DSC
Spanner  –	**Tool for upper roller and Two-Way Soft Closer.** **Used for door removal and vertical adjustment.** **1 pc included with Two-Way Soft Closer.** • Material: Steel • Finish: Coloured Chromate (Trivalent)		**250-048-915** FD35EV-WRM-SP8
Retrofit Trigger  Included with Two-Way Soft Closer, and also available for individual purchase. 	**Trigger for operating the Two-Way Soft Closer.** **2 pc included with Two-Way Soft Closer.** • Material: Stainless Steel • Finish: Plain Screws Included: (Stainless Steel) Cross-recessed small-diameter flathead screws M4 x 16 (flathead diameter ϕ6), cross-recessed small-diameter flathead tapping screws 4 x 30 (flathead diameter ϕ6)		**250-048-919** FD35EVS-TRG
Trigger Mounting Jig  Included with Two-Way Soft Closer, and also available for individual purchase. Read the precautions for installation (P.762). –	**A jig set to mount the retrofit trigger on the track.** **1 pc included with Two-Way Soft Closer.** • Material: Polyacetal (POM) • Colour: Red		**250-033-815** FD35EV-TRJ
Upper Roller 	**·Surface mounted on door.** **·Vertical door adjustment.** • Material: Zinc alloy/Polyacetal (POM) • Finish: Coloured Chromate/Grey Screws Included: (Stainless Steel) Cross-recessed flathead screws M4 x 16, cross-recessed flathead tapping screws 4 x 40		**250-048-912** FD35EVS-WRM
Lower Guide S  	**Rigid lower guide made of stainless steel.** • Material: Stainless Steel (SUS304) /Polyacetal (POM) • Finish: Plain/Natural Screws Included: (Stainless Steel) Cross-recessed binding head tapping screws 4 × 16, 5 pcs		**250-020-773** FD50-BG18
Guide Track (1500 mm)  Can be used for other FD series models.	**Recessed on door bottom.** • Material: Aluminium Alloy • Finish: Silver Anodized + Coating/Clear	Length 1500 mm	**250-019-971** FD30-HBRT1500SIL

OPTIONAL PARTS

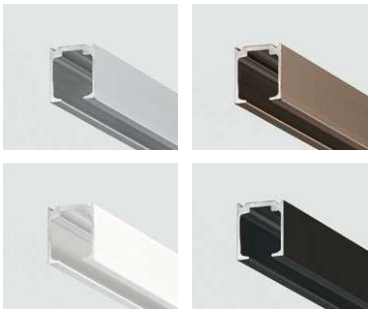
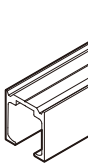
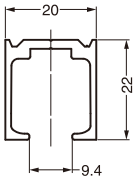
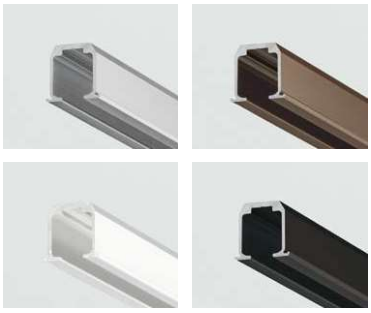
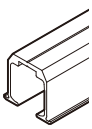
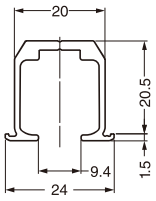
FD35EVS (P.700)

Parts	Specifications		Item Code / Item Name
Cleaner for Upper Track   *This optional part is common for FD30.	**A brush for cleaning shavings left over after cutting.** • Material: Polypropylene (PP) /Polyamide (PA) • Colour: Orange		**250-025-992** FD30-TRC
Guide Track (1000 mm)  Can be used for other FD series models.	**Recessed on door bottom.** • Material: Aluminium Alloy • Finish: Silver Anodized + Coating/Clear	Length 1000 mm	**250-021-996** FD30-HBRT1000SIL

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

UPPER TRACK

FD35EVS (P.700)

Name	Dimensions	Specifications			Item Code / Item Name
Upper Track (Surface Mount)	  	**·Surface mount type.** **·20 mm width.** • Material Aluminium Alloy • Finish Silver: Silver Anodized + Coating/Clear Amber: Amber Anodized + Coating/Clear White: Silver Anodized + White Electrocoating Black: Black Anodized + Coating/Clear Recommended Screws Cross-recessed flathead tapping screws 3.5 × 25	Silver	Length 1820 mm	**250-033-816** **FD35EV-TRM1820-SL**
				Length 2000 mm	**250-035-929** **FD35EV-TRM2000-SL**
				Length 2730 mm	**250-033-817** **FD35EV-TRM2730-SL**
				Length 3000 mm	**250-035-930** **FD35EV-TRM3000-SL**
				Length 3640 mm	**250-033-818** **FD35EV-TRM3640-SL**
				Length 4000 mm	**250-035-931** **FD35EV-TRM4000-SL**
			Amber	Length 1820 mm	**250-033-819** **FD35EV-TRM1820-UM**
				Length 2000 mm	**250-035-932** **FD35EV-TRM2000-UM**
				Length 2730 mm	**250-033-820** **FD35EV-TRM2730-UM**
				Length 3000 mm	**250-035-933** **FD35EV-TRM3000-UM**
				Length 3640 mm	**250-033-821** **FD35EV-TRM3640-UM**
				Length 4000 mm	**250-035-934** **FD35EV-TRM4000-UM**
			White	Length 1820 mm	**250-033-822** **FD35EV-TRM1820-WT**
				Length 2730 mm	**250-033-823** **FD35EV-TRM2730-WT**
				Length 3640 mm	**250-033-824** **FD35EV-TRM3640-WT**
			Black	Length 1820 mm	**250-048-948** **FD35EV-TRM1820-BL**
				Length 4000 mm	**250-048-949** **FD35EV-TRM4000-BL**
Upper Track (Recessed Mount)	  	**·Recessed mount type.** **·20 mm width.** • Material Aluminium Alloy • Finish Silver: Silver Anodized + Coating/Clear Amber: Amber Anodized + Coating/Clear White: Silver Anodized + White Electrocoating Black: Black Anodized +Coating/Clear Recommended Screws Cross-recessed flathead tapping screws 3.5 × 25	Silver	Length 1820 mm	**250-033-834** **FD35EV-TRH1820-SL**
				Length 2000 mm	**250-035-941** **FD35EV-TRH2000-SL**
				Length 2730 mm	**250-033-835** **FD35EV-TRH2730-SL**
				Length 3000 mm	**250-035-942** **FD35EV-TRH3000-SL**
				Length 3640 mm	**250-033-836** **FD35EV-TRH3640-SL**
				Length 4000 mm	**250-035-943** **FD35EV-TRH4000-SL**
			Amber	Length 1820 mm	**250-033-837** **FD35EV-TRH1820-UM**
				Length 2000 mm	**250-035-944** **FD35EV-TRH2000-UM**
				Length 2730 mm	**250-033-838** **FD35EV-TRH2730-UM**
				Length 3000 mm	**250-035-945** **FD35EV-TRH3000-UM**
				Length 3640 mm	**250-033-839** **FD35EV-TRH3640-UM**
				Length 4000 mm	**250-035-946** **FD35EV-TRH4000-UM**
			White	Length 1820 mm	**250-033-840** **FD35EV-TRH1820-WT**
				Length 2730 mm	**250-033-841** **FD35EV-TRH2730-WT**
				Length 3640 mm	**250-033-842** **FD35EV-TRH3640-WT**
			Black	Length 1820 mm	**250-048-946** **FD35EV-TRH1820-BL**
				Length 4000 mm	**250-048-947** **FD35EV-TRH4000-BL**

MOUNTING SCREWS FOR UPPER TRACK

FD35EVS (P.700)

Name	Specifications	Item Code / Item Name
Cross-recessed flathead tapping screws 3.5 × 25 (Black) **100 pcs/set**  x 100	• Material Steel • Finish Black Chromate (Trivalent) Black mounting screws ideal for mounting black upper track.	**250-052-702** **FD35EV-TR-SC3525-BL**

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD50SP Two-way Damper / Recessed Upper Roller NEW

Latest Info

- Two-way soft-close model of FD50SP.
- Upgraded for easier installation.

Passed Private 200K Cycle Test

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	Min. 24mm / Max. 2700mm MAX 50kg 25 kg or more recommended Door Height Max.2400 mm 680 - 1500 mm Door Height Max.2401 - 2700 mm 800 - 1500 mm	±4mm ±2mm

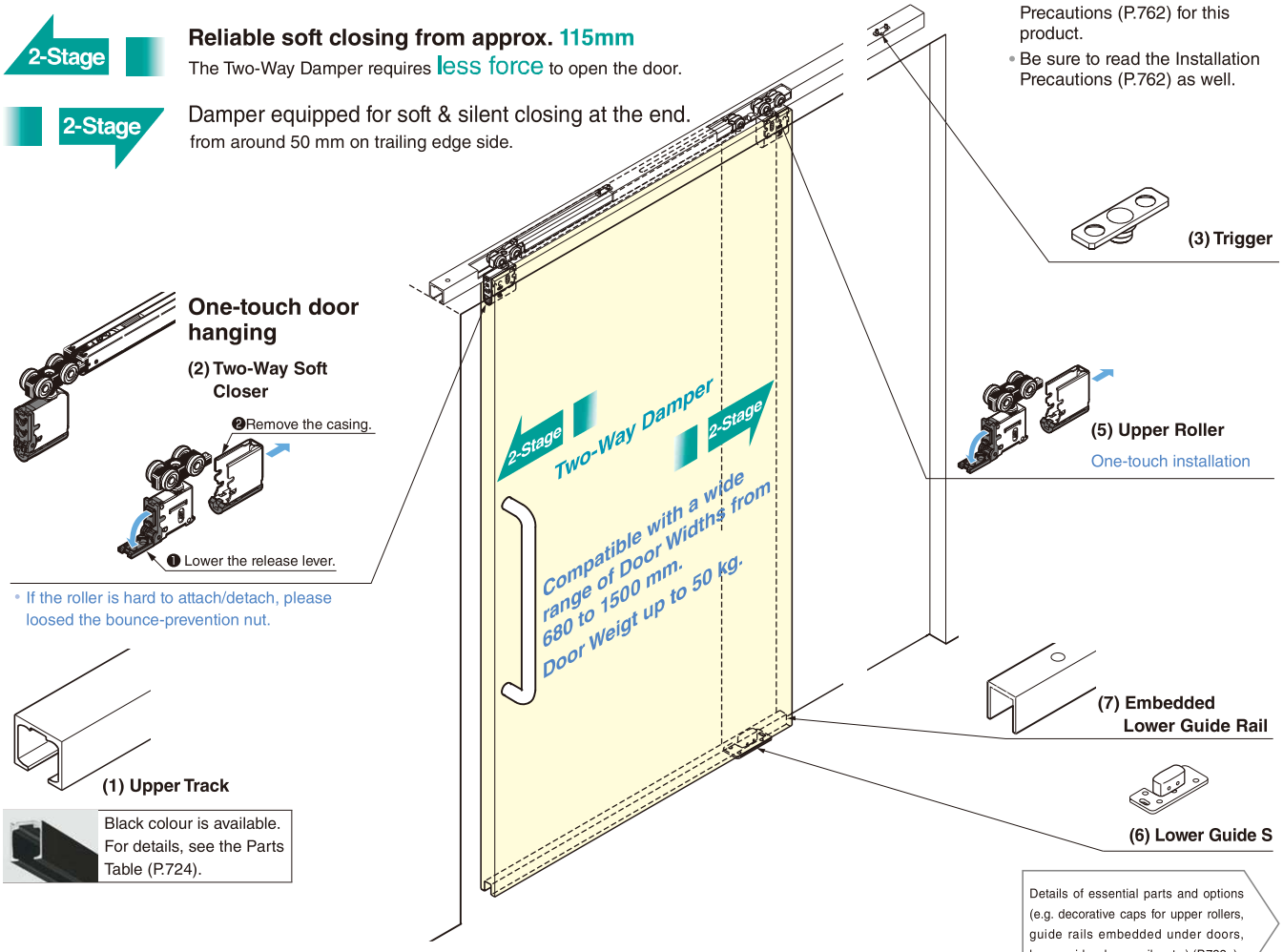
Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage

Reliable soft closing from approx. 115mm
The Two-Way Damper requires less force to open the door.

2-Stage

Damper equipped for soft & silent closing at the end.
from around 50 mm on trailing edge side.



One-touch door hanging

(2) Two-Way Soft Closer

❷Remove the casing.

❶ Lower the release lever.

- If the roller is hard to attach/detach, please loosed the bounce-prevention nut.

(3) Trigger

(5) Upper Roller
One-touch installation

(7) Embedded Lower Guide Rail

(6) Lower Guide S

(1) Upper Track

Black colour is available. For details, see the Parts Table (P.724).

Details of essential parts and options (e.g. decorative caps for upper rollers, guide rails embedded under doors, lower guides, lower rails, etc.) (P.722~)

Standard part list

Please also refer to "Types of Upper track." (P.705)

Upgraded parts

Parts / Item Code / Item Name	Selection (1) Upper Track	Required Parts (2) Two-Way Soft Closer*	(3) Trigger	(4) Jig for Trigger	(5) Upper Roller	(6) Lower Guide S	(7) Embeded Lower Guide Rail	Required Parts (8) Stopper Block
Item Code		250-056-001	Included with Two-Way Soft Closer	Included with Two-Way Soft Closer	250-056-002	250-020-773	250-019-971	250-020-817
Item Name		FD50SP-WRH-DSC			FD50SP-WRH	FD50-BG18	FD30-HBRT1500SIL	FD50-HSB
Single Sliding	1820 mm 1 pc	1 pc	2 pcs	1 pc	1 pc	1 pc	1 pc	—
Overlapping Sliding	1820 mm 2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs
Opposite Opening Sliding	3640 mm 1 pc	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs	2 pcs	1 pc

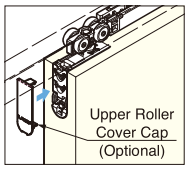
Parts Set — Item Code: 250-056-236 / Item Name: FD50SPDHCP (×2 for Overlapping Sliding and Opposite Opening Sliding)

* Includes Retrofit Trigger and Jig for Trigger. Can also be purchased separately. (P.722)

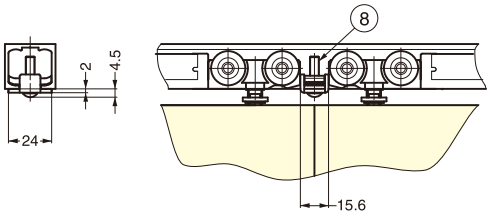
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

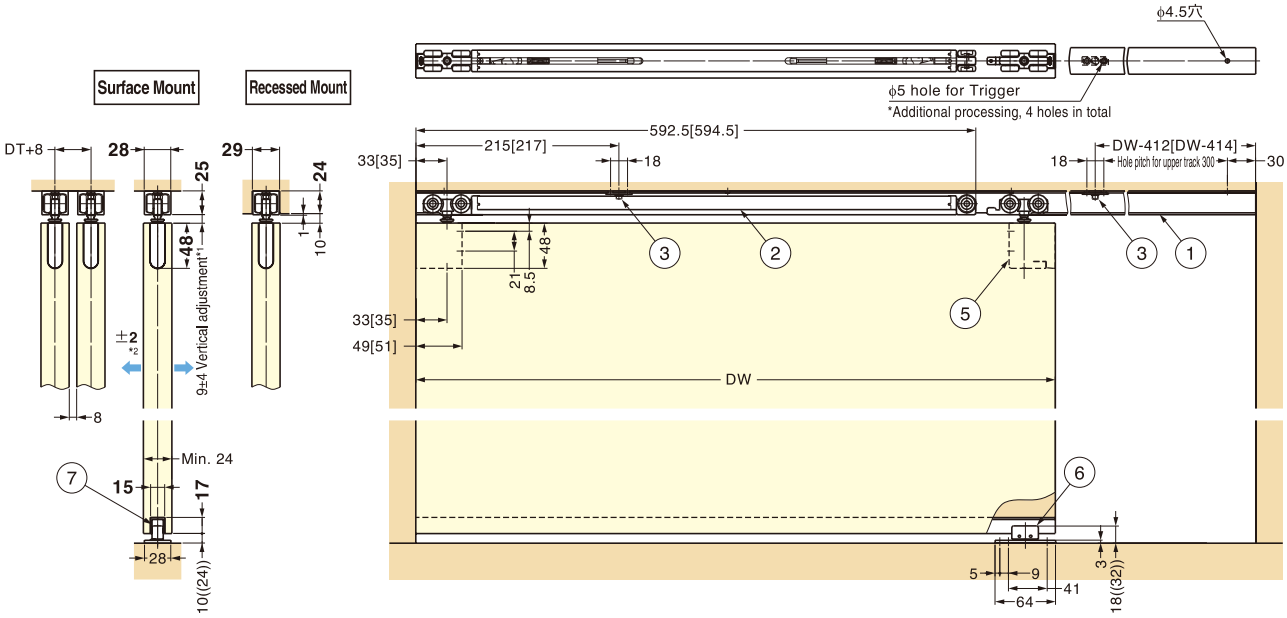
Installation Example

*1 The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.
*2 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm from the end of the door.



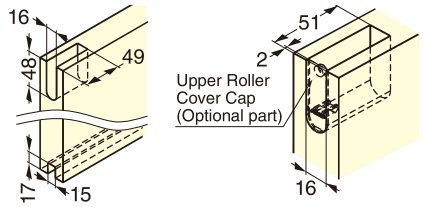
Opposite Opening Sliding Doors System with Bumper Block.



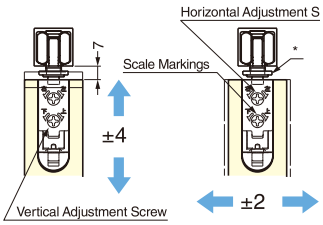


[ ] indicates the dimensions when the upper roller cover cap (optional) is attached.
(( )) indicates the dimensions when thelLower guide L (optional) is attached.
Also see the instructions on how to calculate the trigger installation position.

Cut Out Dimensions



Door Adjustment

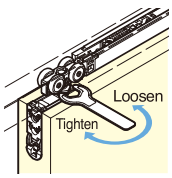


*Nut to prevent springing up

- Can be adjusted with one ⊕No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

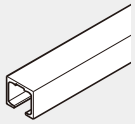
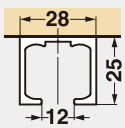
Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2)and (5)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track Recommended screws: Cross-recessed flat head tapping screws 3.8 x 40

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Upper Track  	1820mm	250-020-766 FD50-TRM1820SIL	250-020-767 FD50-TRM1820UM	250-025-174 FD50-TRM1820WT
	2000mm	250-021-177 FD50-TRM2000SIL	250-021-178 FD50-TRM2000UM	250-025-177 FD50-TRM2000WT
	2730mm	250-020-768 FD50-TRM2730SIL	250-020-769 FD50-TRM2730UM	250-025-175 FD50-TRM2730WT
	3000mm	250-021-179 FD50-TRM3000SIL	250-021-180 FD50-TRM3000UM	250-025-178 FD50-TRM3000WT
	3640mm	250-020-770 FD50-TRM3640SIL	250-020-771 FD50-TRM3640UM	250-025-176 FD50-TRM3640WT
	4000mm	250-021-181 FD50-TRM4000SIL	250-021-182 FD50-TRM4000UM	250-025-179 FD50-TRM4000WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD50SP Without Damper / Recessed Upper Roller NEW

Latest Info

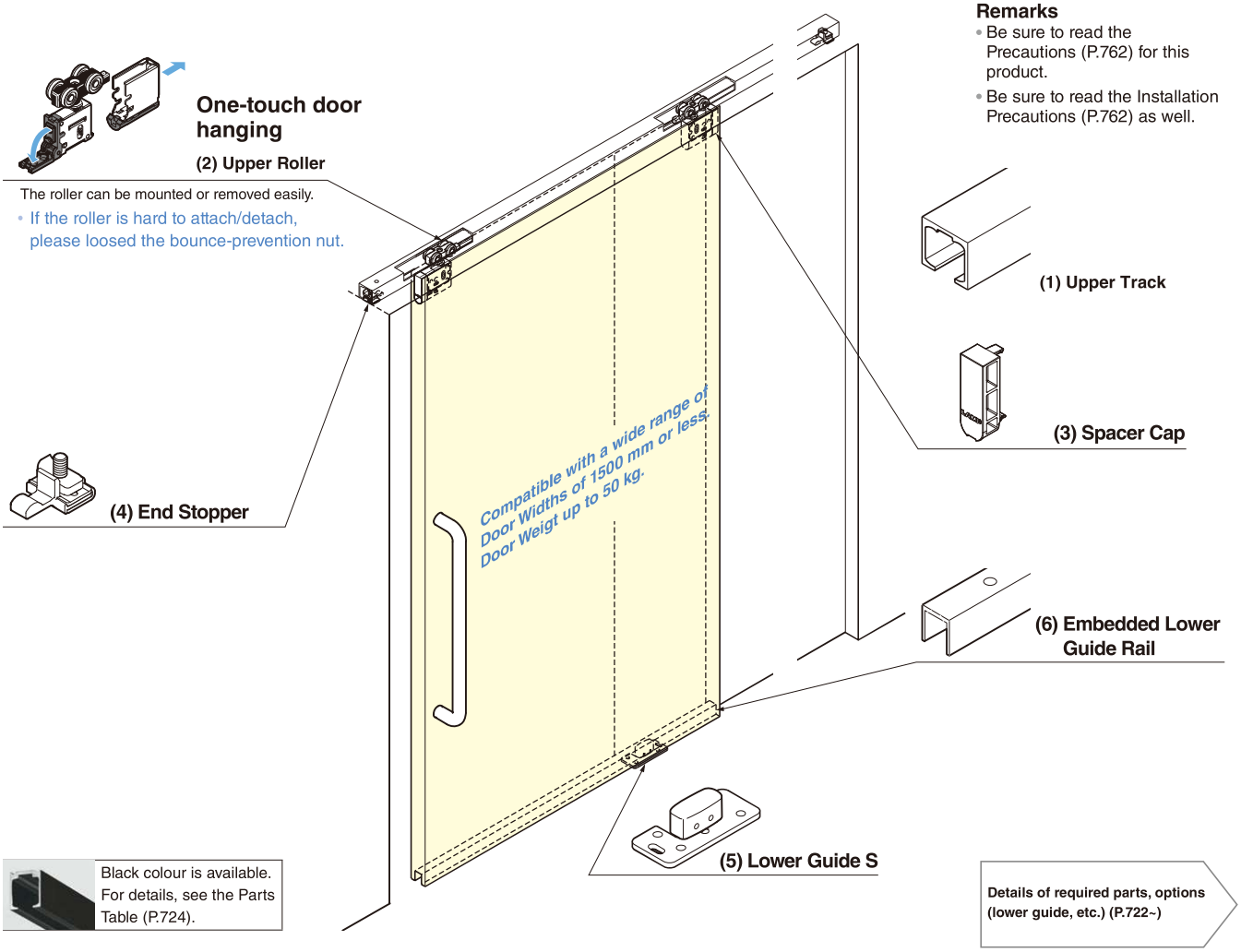
- Without damper model of FD50SP.
- Upgraded for easier installation.

Passed Private 200K Cycle Test

Features	Door Size (per door)	Adjustment
–	Minimum 24 mm; Max. 2700 mm; MAX 50kg; Door Height Max.2400 mm; Door Height Max.2401 - 2700 mm; Max. 1500 mm; 800 - 1500 mm	±4 mm; ±2 mm

INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.



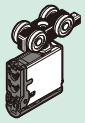
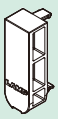
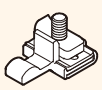
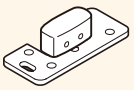
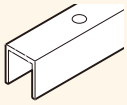
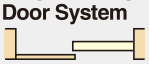
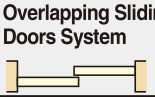
Black colour is available. For details, see the Parts Table (P.724).

Details of required parts, options (lower guide, etc.) (P.722~)

Standard Parts List

For details of (1) Upper track, see "Type of Upper Track" (P.707).

Upgraded parts

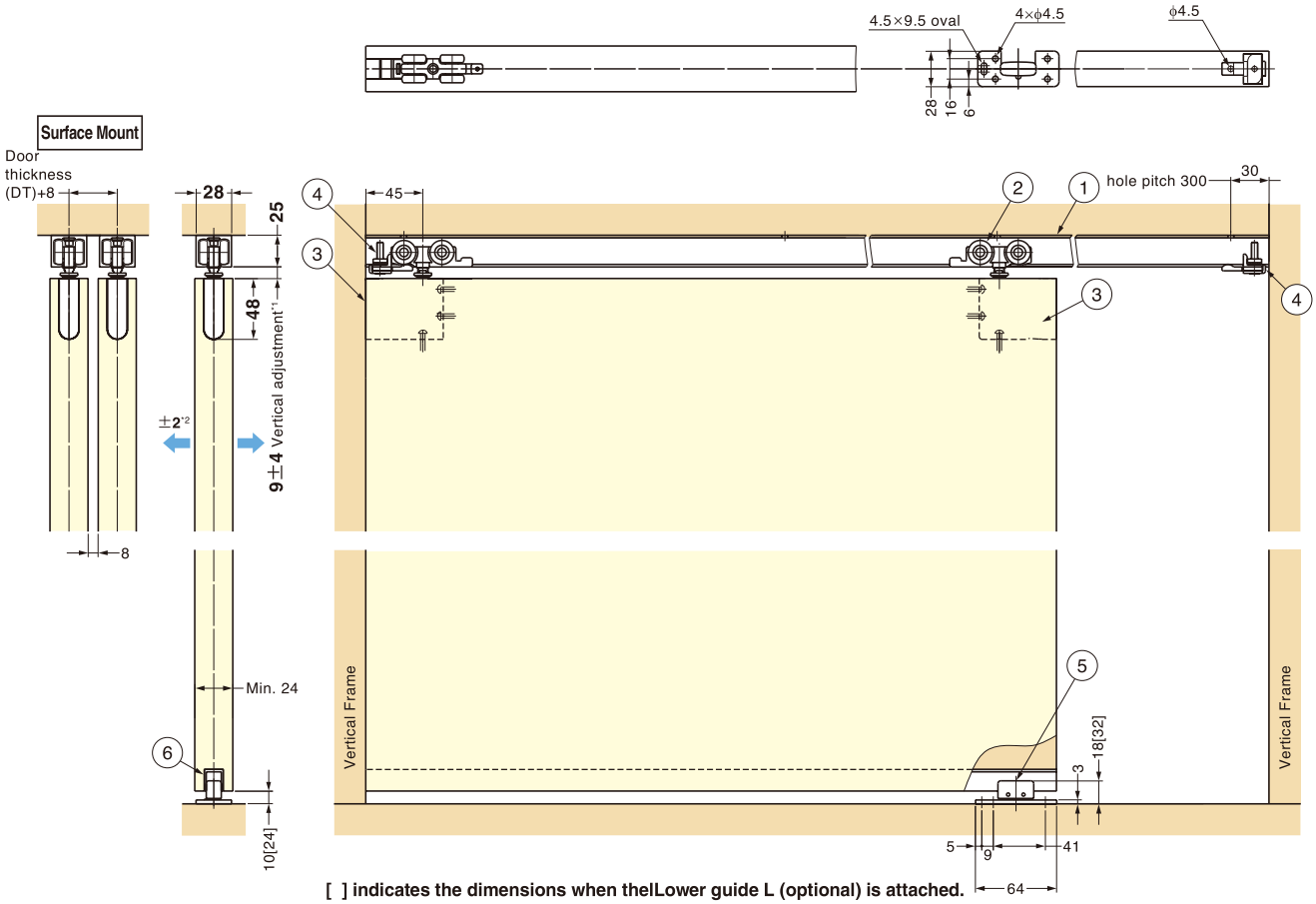
Parts / Item Code / Item Name	Selection: (1) Upper Track	Required Parts: (2) Upper Roller	(3) Spacer Cap	(4) End Stopper	(5) Lower Guide S	(6) Embedded Lower Guide Rail
						
Item Code / Item Name		250-056-002 FD50SP-WRH	250-056-043 FD50SP-WRH-SCP12-LBR	250-020-772 FD50-HTST	250-020-773 FD50-BG18	250-019-971 FD30-HBRT1500SIL
Single Sliding Door System 	1820 mm x 1 pc	2 pcs	2 pcs	2 pcs	1 pc	1 pc
Overlapping Sliding Doors System 	1820 mm x 2 pcs	4 pcs	4 pcs	4 pcs	2 pcs	2 pcs

Parts Set — Item Code: 250-056-237 — Item Name: FD50SPHHP-LBR (× 2 for Overlapping Sliding Doors System)

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

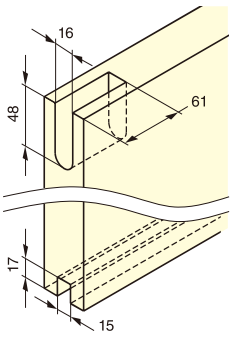
Installation Example

*1 The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.
*2 The horizontal position of the door can be adjusted within a range of -2 mm to +2 mm from the end of the door.

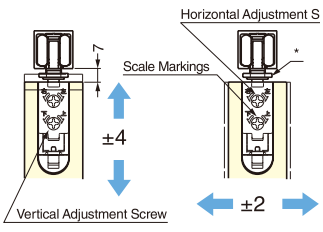


[ ] indicates the dimensions when thelLower guide L (optional) is attached.

Cut Out Dimensions



Door Adjustment

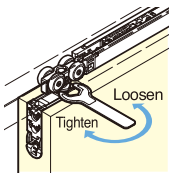


*Nut to prevent springing up

- Can be adjusted with one ⊕No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

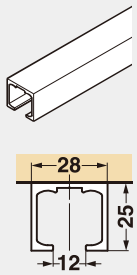
Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track Recommended screws: Cross-recessed flat head tapping screws 3.8 x 40

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Surface Mount 	1820mm	250-020-766 FD50-TRM1820SIL	250-020-767 FD50-TRM1820UM	250-025-174 FD50-TRM1820WT
	2000mm	250-021-177 FD50-TRM2000SIL	250-021-178 FD50-TRM2000UM	250-025-177 FD50-TRM2000WT
	2730mm	250-020-768 FD50-TRM2730SIL	250-020-769 FD50-TRM2730UM	250-025-175 FD50-TRM2730WT
	3000mm	250-021-179 FD50-TRM3000SIL	250-021-180 FD50-TRM3000UM	250-025-178 FD50-TRM3000WT
	3640mm	250-020-770 FD50-TRM3640SIL	250-020-771 FD50-TRM3640UM	250-025-176 FD50-TRM3640WT
	4000mm	250-021-181 FD50-TRM4000SIL	250-021-182 FD50-TRM4000UM	250-025-179 FD50-TRM4000WT

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD50SP Two-way Damper / Synchronized 2-door / Recessed Upper Roller NEW

Latest Info

- 2-door synchro model of FD50SP.
- Soft opening/closing motion.
- Upgraded for easier installation.

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	30 - 38 mm Max. 2400 mm 680 - 1200 mm MAX 50kg 25 kg or more recommended	±4 mm ±2 mm

INSTRUCTION

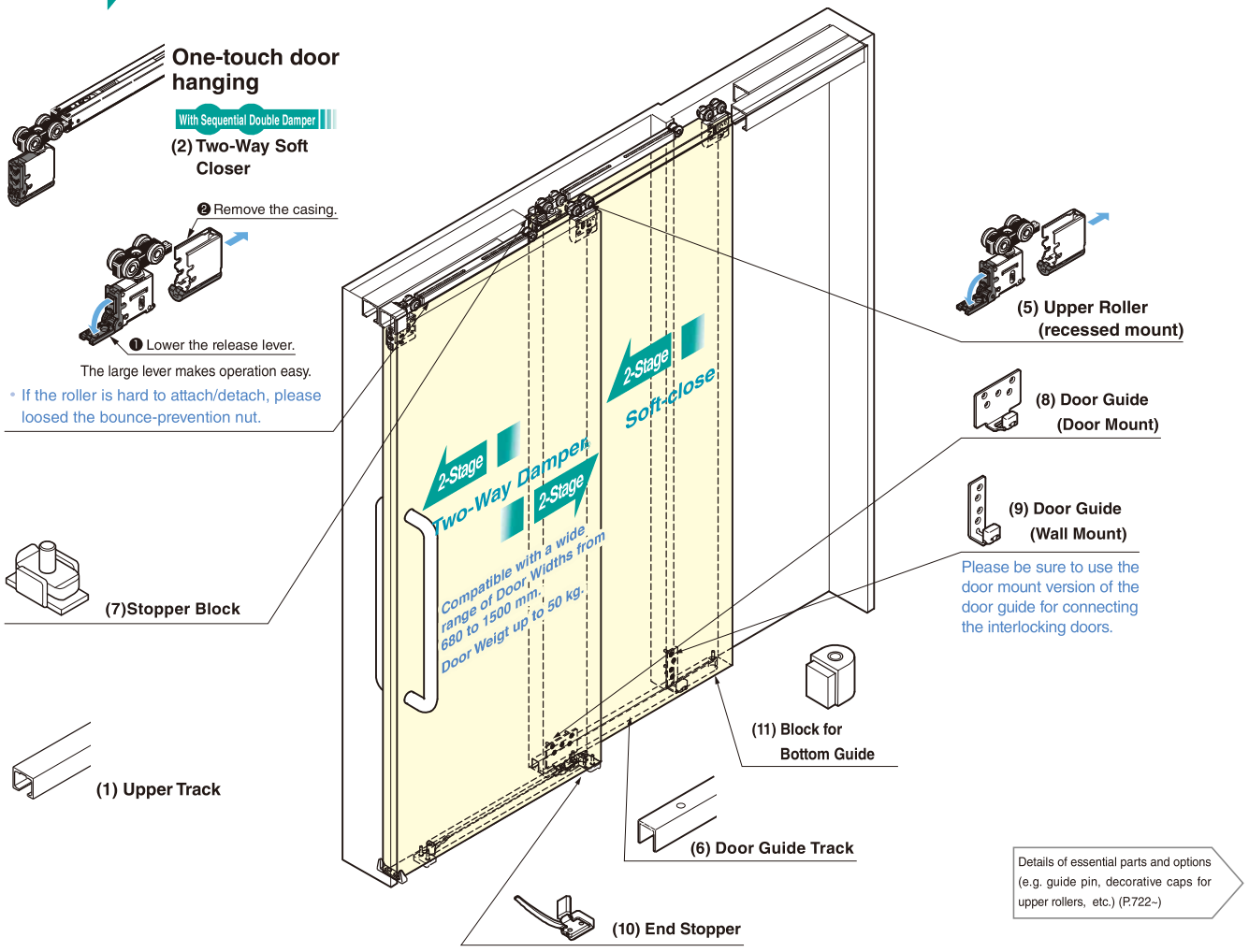
Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage

Reliable soft closing from approx. 115mm
The Two-Way Damper requires less force to open the door.

2-Stage

Damper also works in the opening direction
from around 115 mm on trailing edge side.



Details of essential parts and options (e.g. guide pin, decorative caps for upper rollers, etc.) (P.722~)

Standard part list

Please also refer to "Types of Upper track." (P.709)

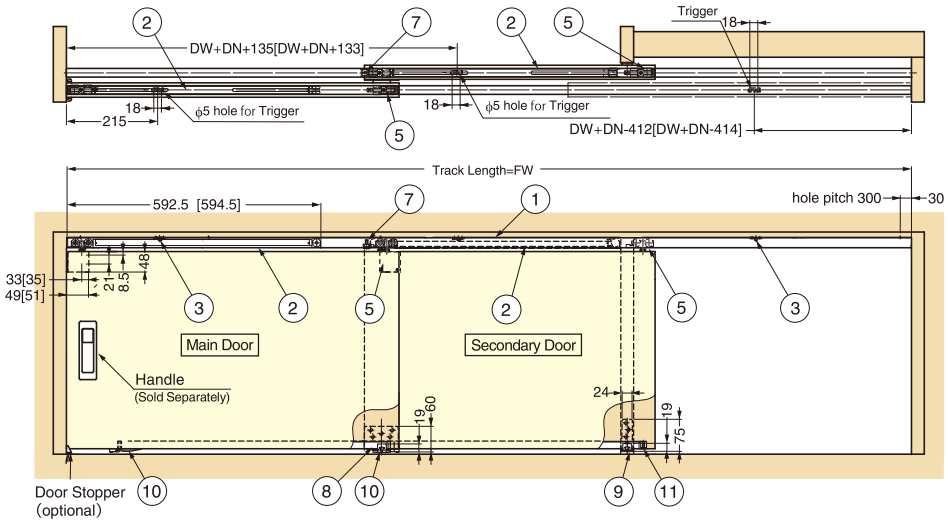
Parts	Selection	Required Parts									
	(1) Upper Track	(2) Two-Way Soft Closer	(3) Trigger*	(4) Jig for Trigger*	(5) Upper Roller (recessed mount)	(6) Door Guide Track	(7) Stopper Block	(8) Door Guide (Door Mount)	(9) Door Guide (Wall Mount)	(10) End Stopper	(11) Block for Bottom Guide
Item Code Item Name		250-056-001 FD50SP-WRH-DSC	included	included	250-056-002 FD50SP-WRH	250-019-971 FD30-HBRT1500SIL	250-020-817 FD50-HSB	250-022-262 FD30-HRDG	250-022-263 FD30-HBGF	250-022-261 FD30-HRGU	250-022-264 FD30-HRDB
Interlocking Panels (x2)	2000 mm x 2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs	1 pc	1 pc	1 pc	1 pc	1 pc
		Parts Set				Item Code : 250-056-241 Item Name: FD50SP-HRP2					

*Includes Trigger and Jig for Trigger. Can also be purchased separately. (P.722)

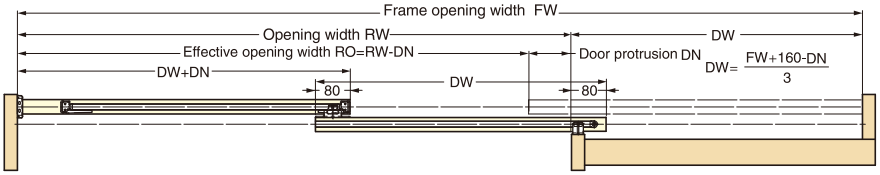
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

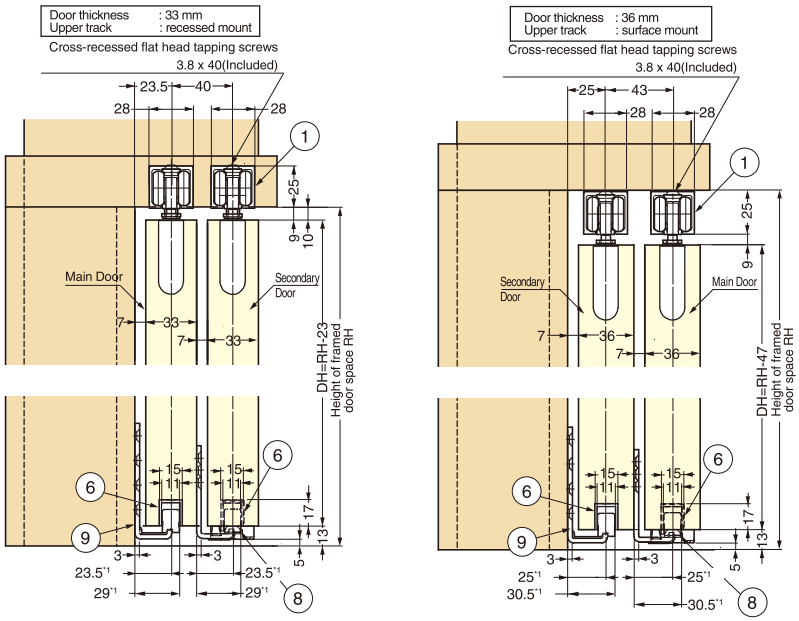
Installation Example

Effective opening width RO = 1200 - 2240mm (without door protrussion DN)
1120 - 2160mm (with door protrussion DN80mm)



[ ] indicates the dimensions when the upper roller cover cap (optional) is attached. (P.723)



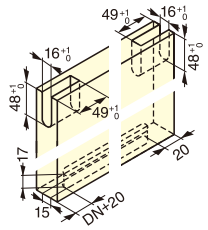


*1 For this condition, replace the guide blocks with the Door Guide (Wall Mount) ⑨ and the Block for Bottom Guide ⑩.

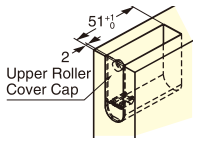
Cut Out Dimensions

Main Door

Leading Edge | Trailing Edge

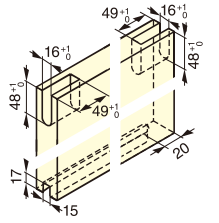


When using the upper roller cover cap (optional) (P.728)

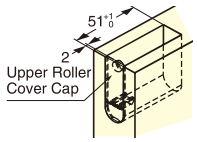


Secondary Door

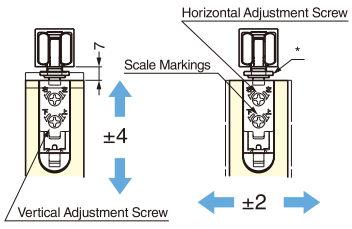
Leading Edge | Trailing Edge



When using the upper roller cover cap (optional) (P.728)



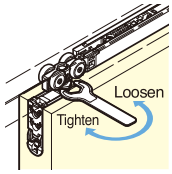
Door Adjustment



- Can be adjusted with one No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2), (5), and (6)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track

Recommended screws: Cross-recessed flat head tapping screws 3.8 x 40

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Surface Mount	1820mm	250-020-766 FD50-TRM1820SIL	250-020-767 FD50-TRM1820UM	250-025-174 FD50-TRM1820WT
	2000mm	250-021-177 FD50-TRM2000SIL	250-021-178 FD50-TRM2000UM	250-025-177 FD50-TRM2000WT
	2730mm	250-020-768 FD50-TRM2730SIL	250-020-769 FD50-TRM2730UM	250-025-175 FD50-TRM2730WT
	3000mm	250-021-179 FD50-TRM3000SIL	250-021-180 FD50-TRM3000UM	250-025-178 FD50-TRM3000WT
	3640mm	250-020-770 FD50-TRM3640SIL	250-020-771 FD50-TRM3640UM	250-025-176 FD50-TRM3640WT
	4000mm	250-021-181 FD50-TRM4000SIL	250-021-182 FD50-TRM4000UM	250-025-179 FD50-TRM4000WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD50SP Two-way Damper / Synchronized 3-door / Recessed Upper Roller NEW

Latest Info

- 3-door synchro model of FD50SP.
- Soft opening/closing motion.
- Upgraded for easier installation.

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	30 - 38 mm Max. 2400 mm 680 -1200 mm MAX 50kg 25 kg or more recommended	±4 mm

INSTRUCTION

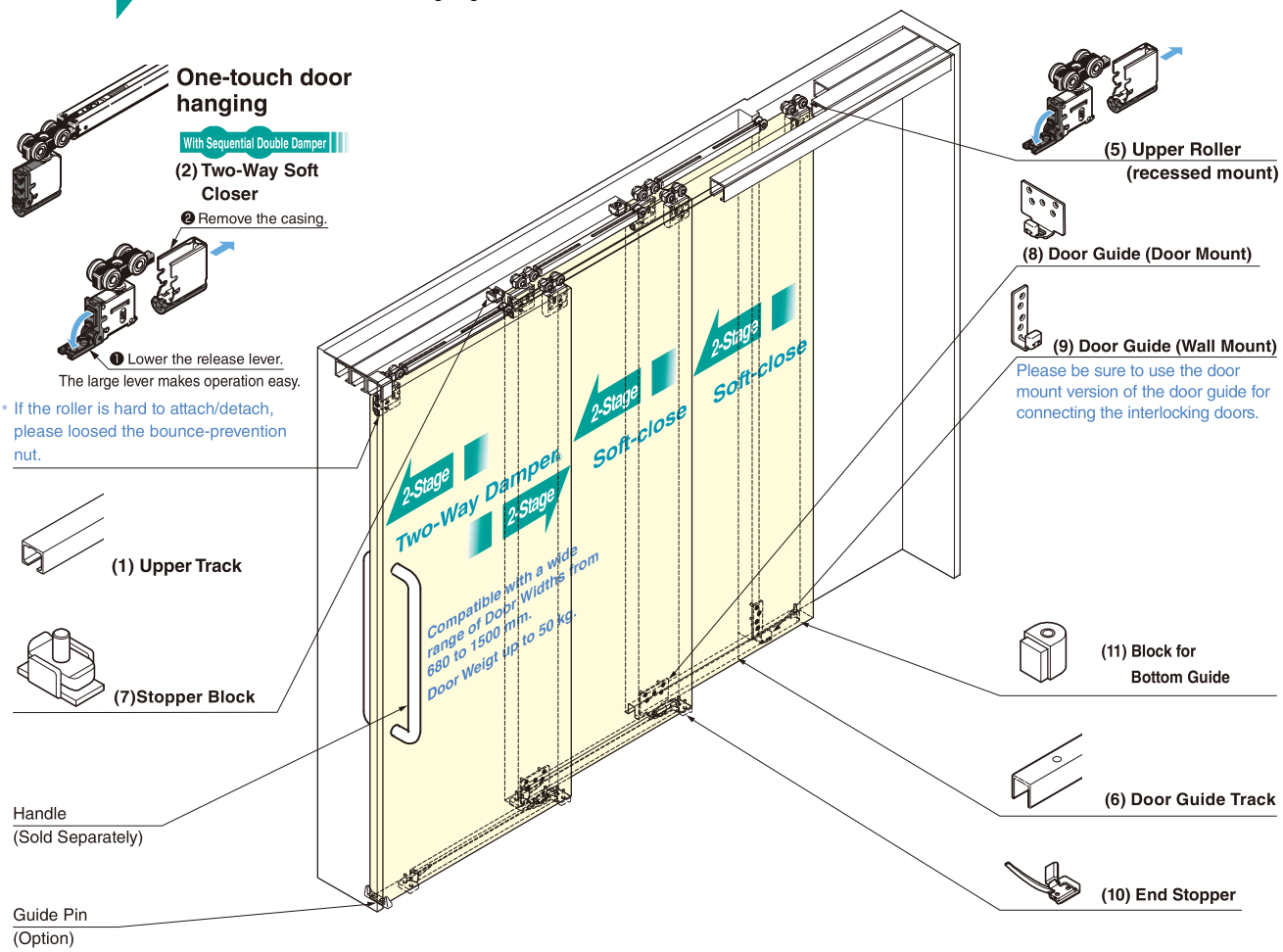
Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage

Reliable soft closing from approx. 115mm
The Two-Way Damper requires less force to open the door.

2-Stage

Damper also works in the opening direction
from around 115 mm on trailing edge side.



Details of essential parts and options (e.g. guide pin, decorative caps for upper rollers, etc.) (P.722~)

Standard part list

Please also refer to "Types of Upper track." (P.711)

Upgraded parts

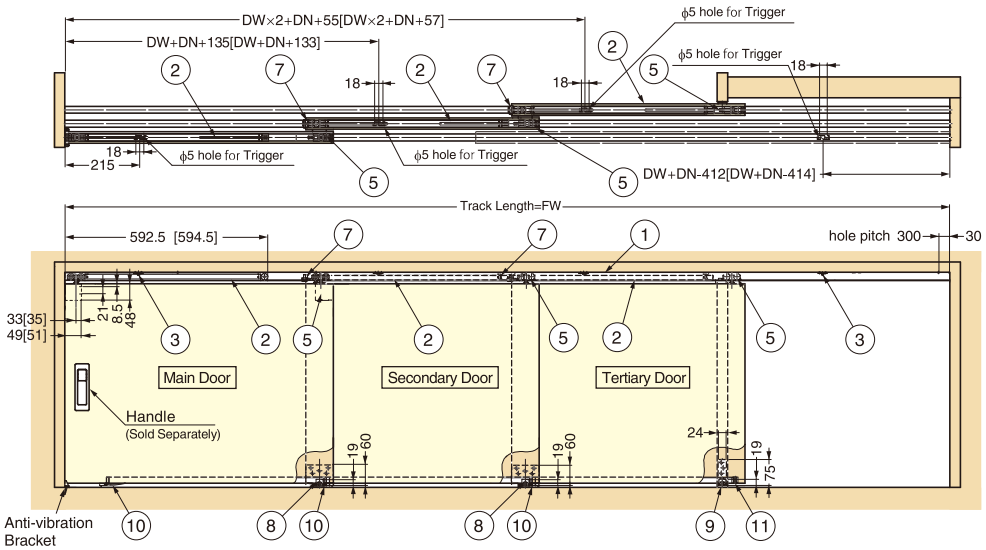
Parts	Selection	Required Parts									
	(1) Upper Track	(2) Two-Way Soft Closer	(3) Trigger*	(4) Jig for Trigger*	(5) Upper Roller (recessed mount)	(6) Door Guide Track	(7) Stopper Block	(8) Door Guide (Door Mount)	(9) Door Guide (Wall Mount)	(10) End Stopper	(11) Block for Bottom Guide
Item Code Item Name		250-056-001 FD50SP-WRH-DSC	included	included	250-056-002 FD50SP-WRH	250-019-971 FD30-HBRT1500SIL	250-020-817 FD50-HSB	250-022-262 FD30-HRDG	250-022-263 FD30-HBGF	250-022-261 FD30-HRGU	250-022-264 FD30-HRDB
Interlocking Panels (x3)	2730 mm x 3 pcs	3 pcs	6 pcs	3 pcs	3 pcs	3 pcs	2 pcs	2 pcs	1 pc	2 pcs	1 pc
		Parts Set				Item Code : 250-056-242 Item Name: FD50SP-HRP3					

*Includes Trigger and Jig for Trigger. Can also be purchased separately. (P.722)

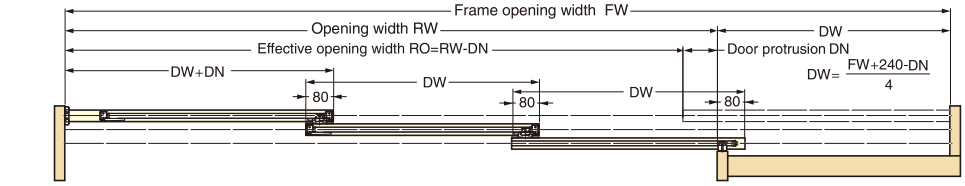
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

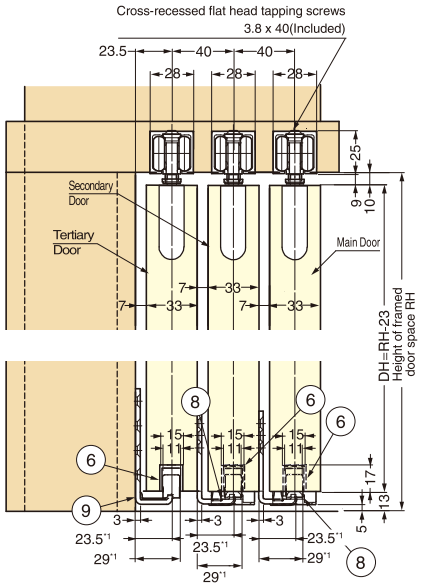
Effective opening width RO = 1200 - 2240mm (without door protrussion DN)
1120 - 2160mm (with door protrussion DN80mm)



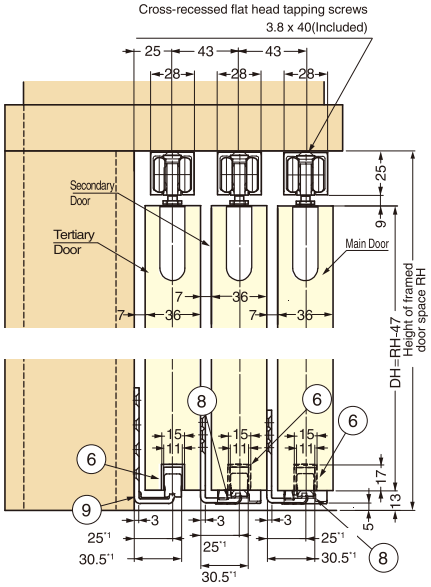
[ ] indicates the dimensions when the upper roller cover cap (optional) is attached. (P.723)



Door thickness : 33 mm
Upper track : recessed mount



Door thickness : 36 mm
Upper track : surface mount

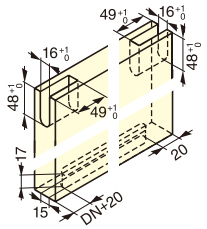


*1 For this condition, replace the guide blocks with the Door Guide (Wall Mount) ⑨ and the Block for Bottom Guide ⑩.

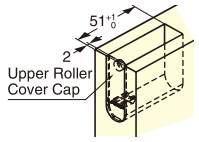
Cut Out Dimensions

Main Door

Leading Edge | Trailing Edge

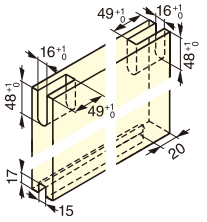


When using the upper roller cover cap (optional) (P.728)

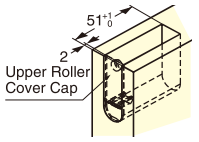


Secondary Door

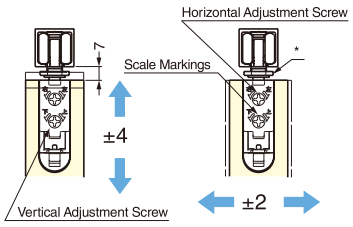
Leading Edge | Trailing Edge



When using the upper roller cover cap (optional) (P.728)



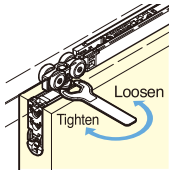
Door Adjustment



- Can be adjusted with one No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2), (5), and (6)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Types of Upper Track

Recommended screws: Cross-recessed flat head tapping screws 3.8 x 40

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
Surface Mount	1820mm	250-020-766 FD50-TRM1820SIL	250-020-767 FD50-TRM1820UM	250-025-174 FD50-TRM1820WT
	2000mm	250-021-177 FD50-TRM2000SIL	250-021-178 FD50-TRM2000UM	250-025-177 FD50-TRM2000WT
	2730mm	250-020-768 FD50-TRM2730SIL	250-020-769 FD50-TRM2730UM	250-025-175 FD50-TRM2730WT
	3000mm	250-021-179 FD50-TRM3000SIL	250-021-180 FD50-TRM3000UM	250-025-178 FD50-TRM3000WT
	3640mm	250-020-770 FD50-TRM3640SIL	250-020-771 FD50-TRM3640UM	250-025-176 FD50-TRM3640WT
	4000mm	250-021-181 FD50-TRM4000SIL	250-021-182 FD50-TRM4000UM	250-025-179 FD50-TRM4000WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD50SP Two-way Damper / Outset / Recessed Upper Roller NEW

Latest Info

- Outset model of FD50SP.
- Wall-mounted upper track.
- Soft opening/closing motion.
- Upgraded for easier installation.

Passed Private 200K Cycle Test

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	30 - 36 mm Maximum 2400 mm 680 - 1500 mm MAX 50kg 25 kg or more recommended	±4 mm ±2 mm

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INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage

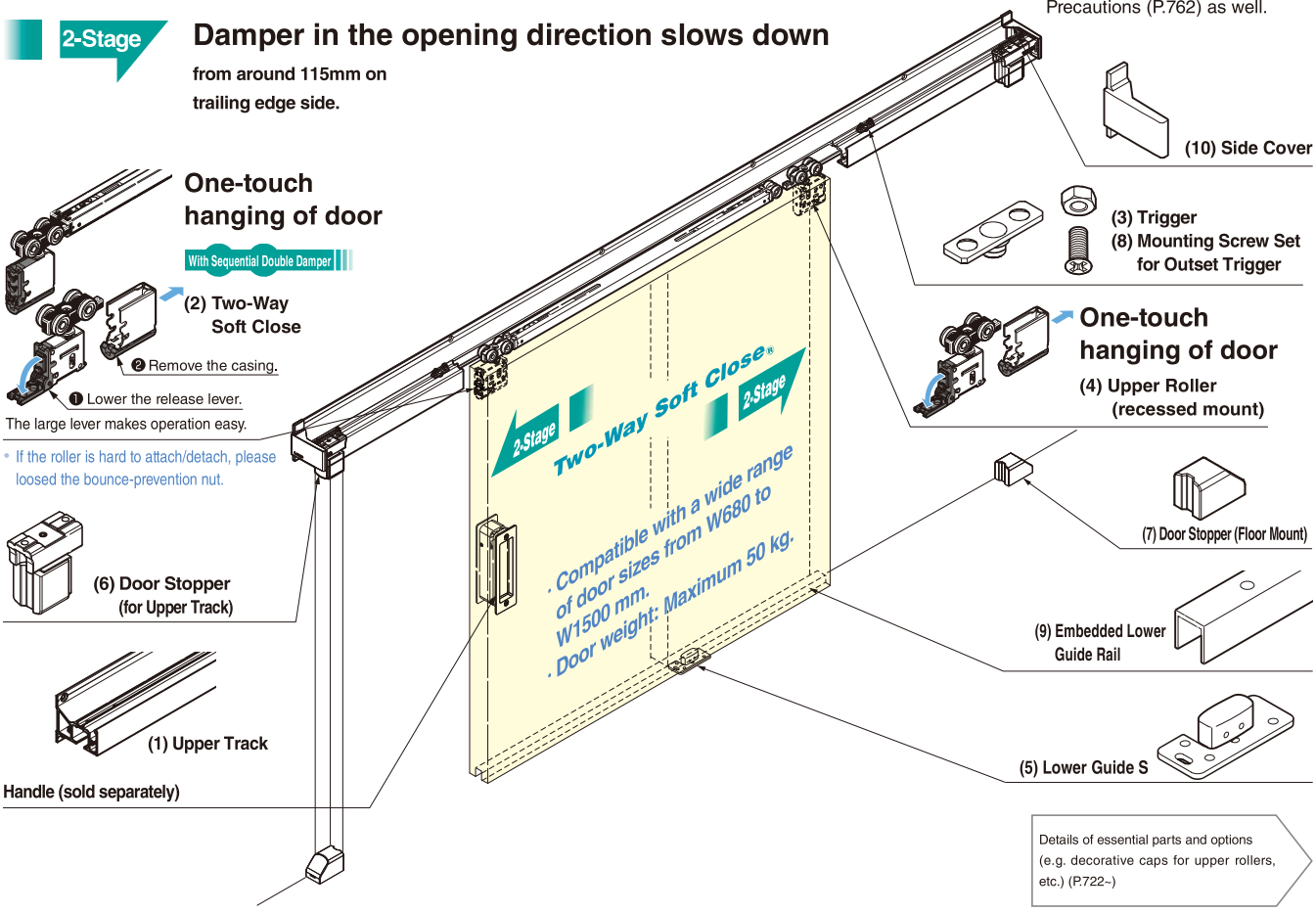
Soft closing starts at approx. 115 mm for reliable operation

Soft opening With Sequential Double Damper in two stages enables less force to be used when opening too.

2-Stage

Damper in the opening direction slows down

from around 115mm on trailing edge side.



Details of essential parts and options (e.g. decorative caps for upper rollers, etc.) (P.722~)

Standard part list

Upgraded parts

See **"Type of Outset Upper Track"** for details on the type of upper track used for (1).

	Required Parts	Required Parts								Required Parts (Select Colour)
Parts	(1) Upper Track	(2) Two-Way Soft Close*1	(3) Trigger	(4) Upper Roller (recessed mount)	(5) Lower Guide S	(6) Door Stopper (for Upper Track)	(7) Door Stopper (Floor Mount)	(8) Mounting Screw Set for Outset Trigger (2 pcs)	(9) Embedded Lower Guide Rail	(10) Side Cover
Item Code Item Name		250-056-001 FD50SP-WRH-DSC	Included with Two-Way Soft Close	250-056-002 FD50SP-WRH	250-020-773 FD50-BG18	250-041-968 FD50-TRA-STP	250-041-956 FD35EV-FSTP	250-041-967 FD50-TRA-TRGN	250-019-971 FD30-HBRT1500SIL	
Two-Way Soft Close Type	2120 mm x 1 pc	1 pc	2 pcs	1 pc	1 pc	2 pcs	2 pcs	2 Sets	1 pc	1 set (Grey) 250-041-969 FD50-HASC-GR 1 set (Brown) 250-041-970 FD50-HASC-BR 1 set (White) 250-041-971 FD50-HASC-WT

Parts Set — Item Code: 250-056-240 — Item Name: FD50SPDHCP-AK

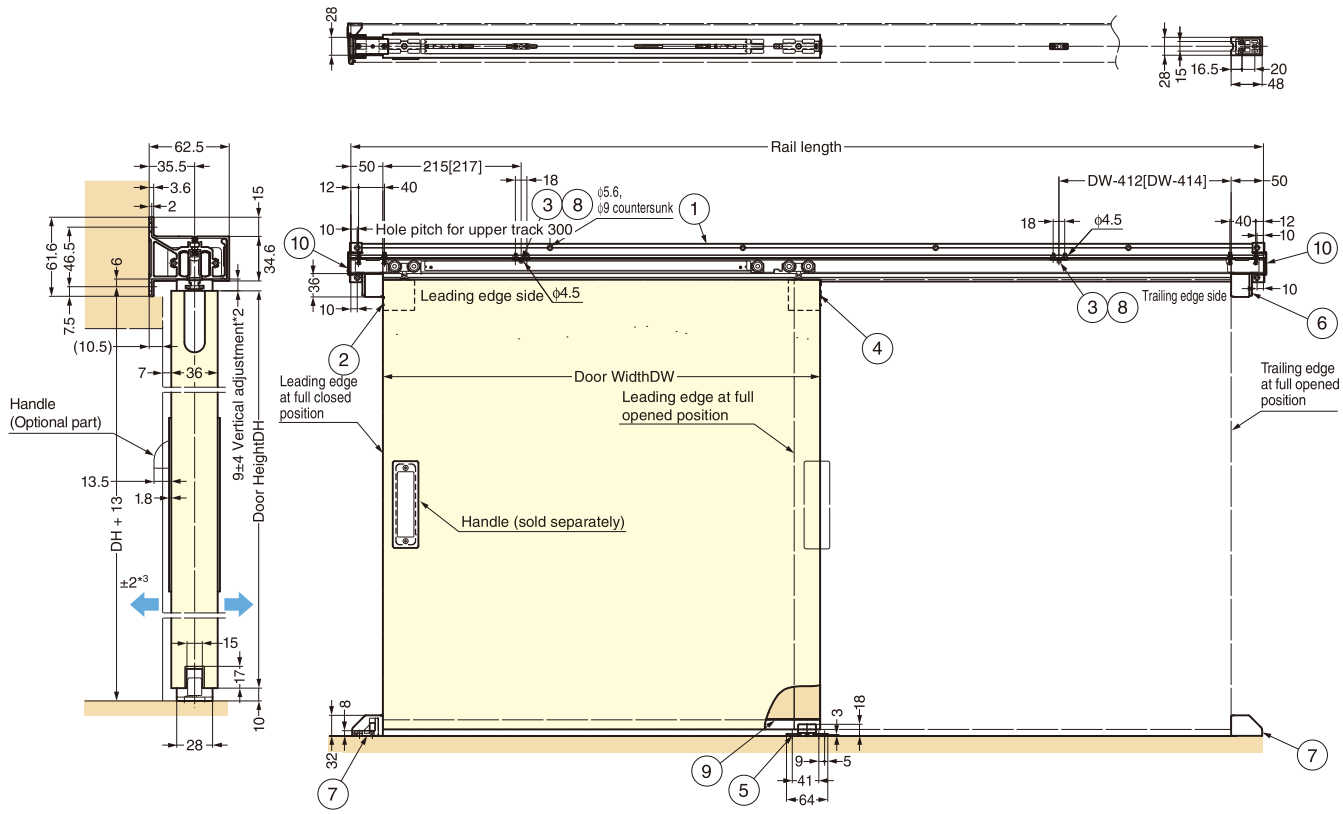
*1 Includes Trigger and Trigger Installation Jig. Can also be purchased separately.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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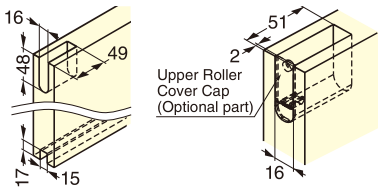
Installation Example

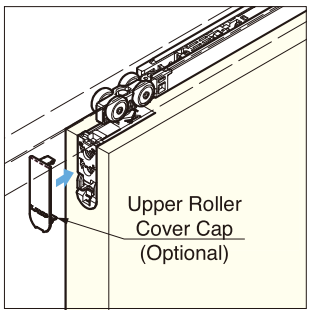
*2 The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.
*3 The horizontal position can be adjusted within a range of -2 mm to +2 mm from the end of the door.



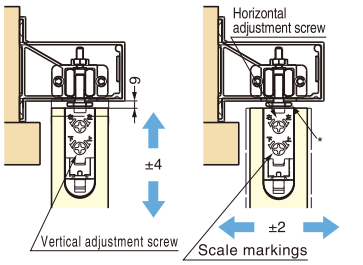
[ ] indicates the dimensions when the upper roller cover cap (optional) is attached.

Cut Out Dimensions





Door Adjustment

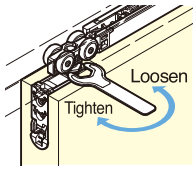


*Includes nuts to prevent springing up

- Can be adjusted with one ⊕No. 2 screwdriver.
- Incremental markings are provided for horizontal adjustment from the end of the door.

Internal mechanism prevents bouncing during closing

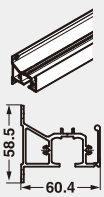
Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring-up prevention nuts (required parts (2) and (3)), using a spanner (optional item) with a nominal size of 12 until the nuts come into contact with the upper track.

Type of Outset Upper Track

Included screws: Size 4 x 40 cross-recessed flat head tapping screws

Specifications	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Outset Upper Track 	2120mm	250-041-972 FD50-TRA2120-SL	250-041-973 FD50-TRA2120-UM	250-041-974 FD50-TRA2120-WT
	3020mm	250-041-975 FD50-TRA3020-SL	250-041-976 FD50-TRA3020-UM	250-041-977 FD50-TRA3020-WT

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD50SP Pocket Door / Two-way Damper / Recessed Upper Roller NEW

Latest Info

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

- Pocket door model of FD50SP.
- Separable upper tracks.
- Easy maintenance after installation.
- Soft opening/closing motion.
- Upgraded for easier installation.

Passed Private 200K Cycle Test

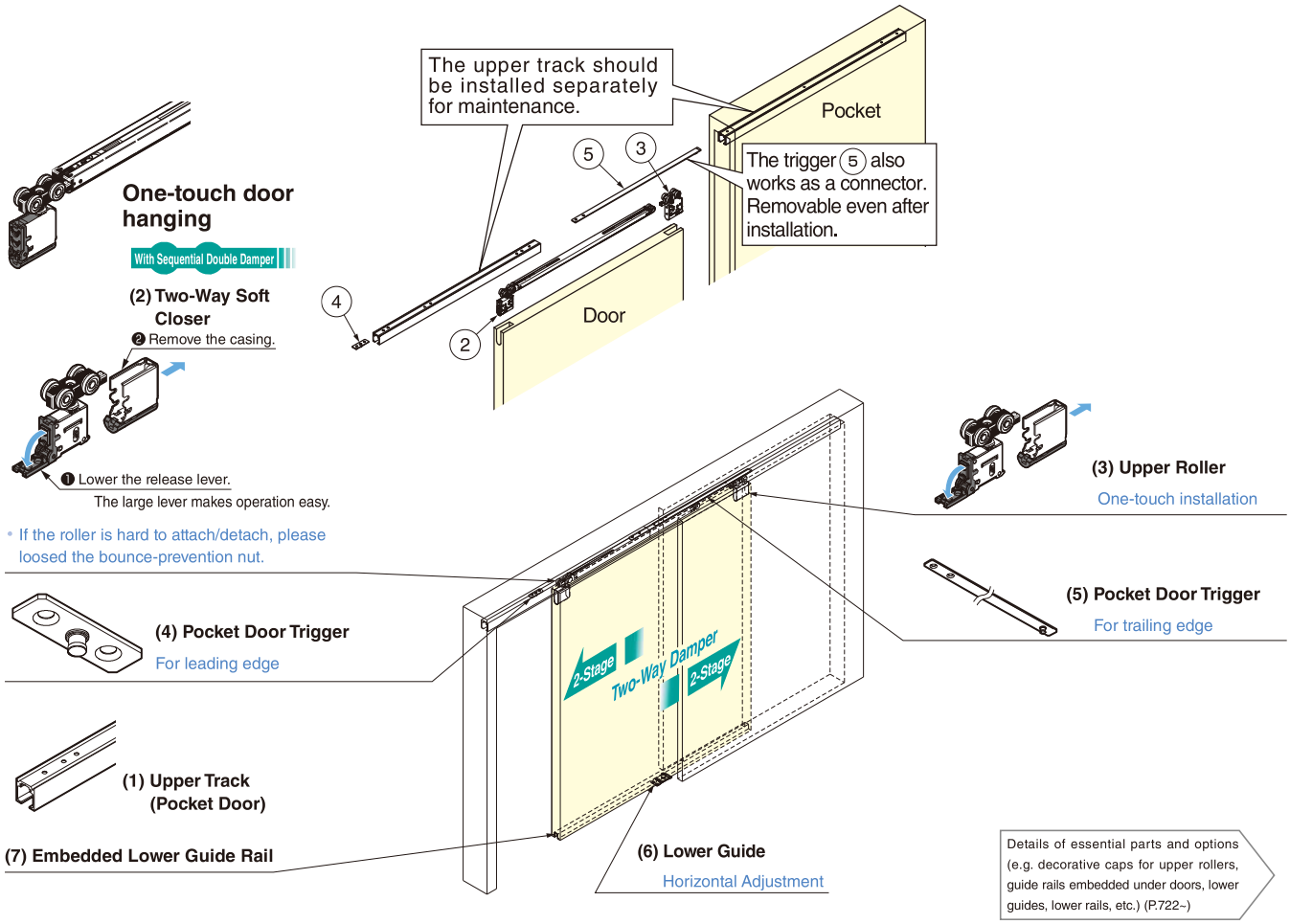
Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	Min. 30 mm Max. 2700 mm MAX 50kg 25 kg or more recommended Door Height Max.2400 mm : 680 - 1500 mm Door Height Max.2401 - 2700 mm : 800 - 1500 mm	±4mm ±2 mm

INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage **Reliable soft closing from approx. 115mm**
The Two-Way Damper requires less force to open the door.

2-Stage Damper also works in the opening direction
from around 115 mm on trailing edge side.



Details of essential parts and options (e.g. decorative caps for upper rollers, guide rails embedded under doors, lower guides, lower rails, etc.) (P.722~)

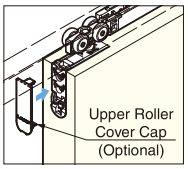
Standard part list
Please also refer to "Types of Upper track." (P.715)

Upgraded parts

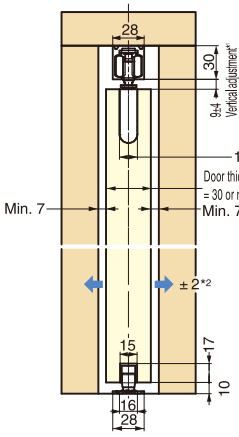
	Selection	Required Parts					
Parts	(1) Upper Track (Pocket Door)	(2) Two-Way Soft Closer	(3) Upper Roller	(4) Pocket Door Trigger	(5) Pocket Door Trigger	(6) Lower Guide	(7) Embedded Lower Guide Rail
Item Code Item Name		250-056-001 FD50SP-WRH-DSC	250-056-002 FD50SP-WRH	250-029-707 FD50-TRGPF	250-029-706 FD50-TRGPB-HB	250-029-718 FD50-BGR18	250-019-971 FD30-HBRT1500SIL
Pocket Door	1860 mm × 1 pc (can be cut to size)	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
		Parts Set		Item Code : 250-056-243 Item Name: FD50SPDHCP-PD			

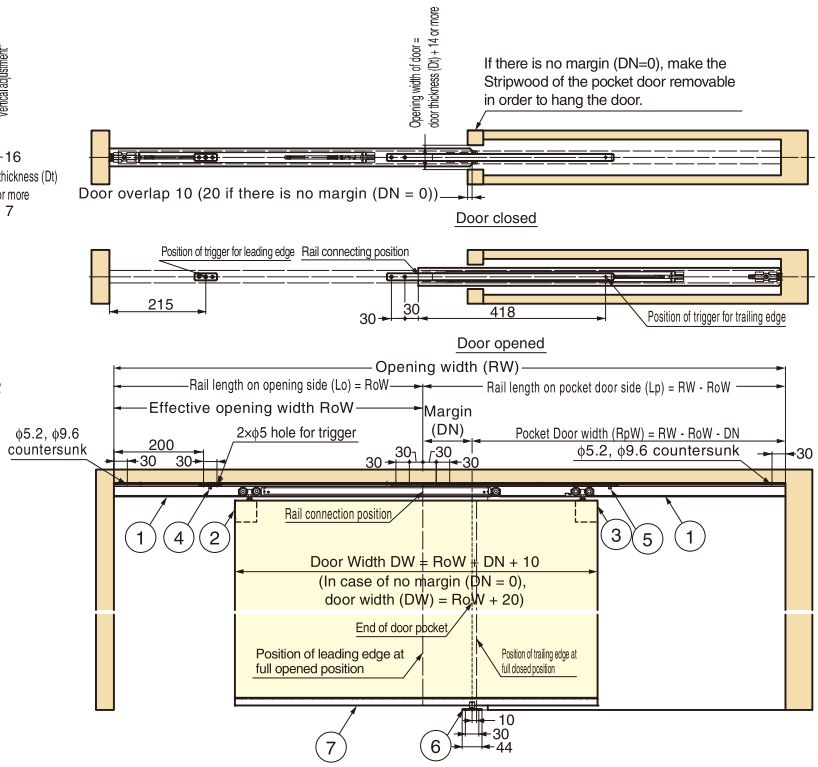
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

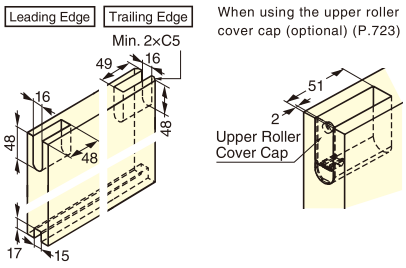


*1 Vertical adjustment. The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.
*2 The horizontal position of the door can be adjusted within a range of -2mm or +2 mm from the end of the door.



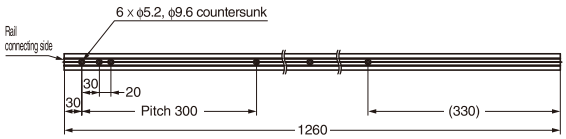


Cut Out Dimensions

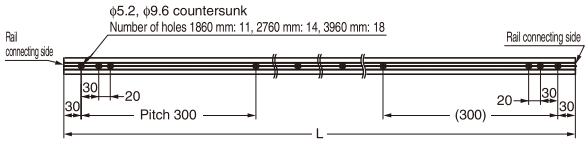


Upper Track Dimensions

• Rail length 860 mm or 1260 mm

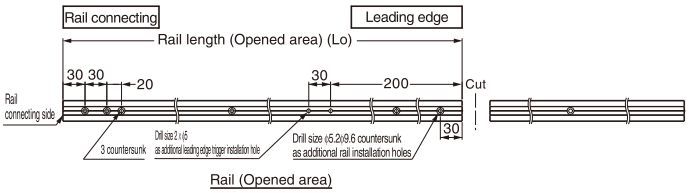


•Rail length 1860 mm, 2760 mm or 3960 mm

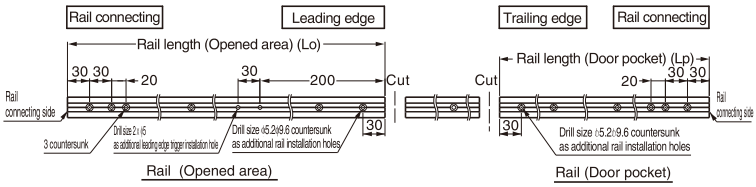


Pocket Door Mortising Dimensions

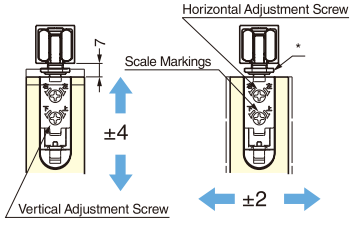
Track length 1260mm (2 pcs)



Track length 1860mm, 2760mm, 3960mm (1 pc)



Door Adjustment

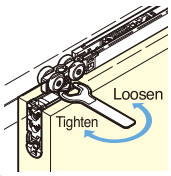


*Nut to prevent springing up

- Can be adjusted with one No. 2 screwdriver.
- Scale markings are provided for horizontal adjustment from the end of the door.

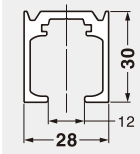
Internal mechanism prevents bouncing during closing

Prevents the door from bouncing up after the soft close function has been activated.



After adjusting, tighten the spring up prevention nuts (required parts (2) and (3)) using the spanner (included with closer) with a nominal size of 12 until the nuts come into contact with the upper track.

Type of Pocket Door Upper Track Included screws: Cross-recessed flat head tapping screws 4 x 40

Specifications	Length	Silver Item Code / Item Name	Amber Item Code / Item Name	White Item Code / Item Name
(1) Pocket Door Upper Track  	1260mm	250-029-680 FD50-TRP1260-SL	250-029-684 FD50-TRP1260-UM	250-029-688 FD50-TRP1260-WT
	1860mm	250-029-681 FD50-TRP1860-SL	250-029-685 FD50-TRP1860-UM	250-029-689 FD50-TRP1860-WT
	2760mm	250-029-682 FD50-TRP2760-SL	250-029-686 FD50-TRP2760-UM	250-029-690 FD50-TRP2760-WT
	3960mm	250-029-683 FD50-TRP3960-SL	250-029-687 FD50-TRP3960-UM	250-029-691 FD50-TRP3960-WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD50 Two-Way Damper / Surface Mounted Roller NEW

Latest Info

- Thin profile allows flexible design with multiple potential applications.
- Damper equipped for soft and self closing.

Passed Private 200K Cycle Test

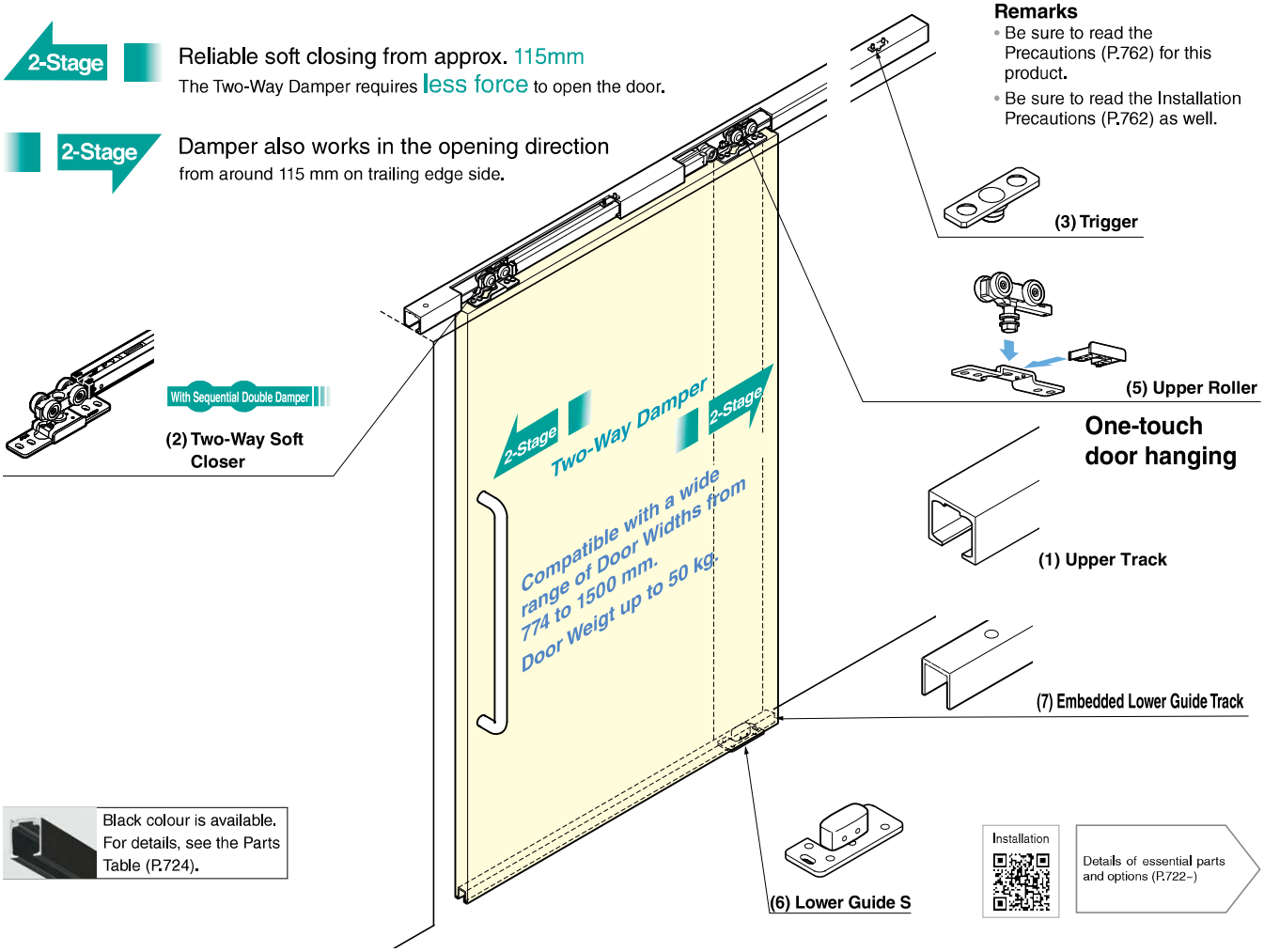
Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	Min. 30 mm / Max. 2,700 mm MAX 50kg 25 kg or more recommended 774- 1500 mm (Height: <2400 mm) 800-1500 mm (Height: 2401-2700 mm)	−4 mm +4 mm

INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage Reliable soft closing from approx. 115mm
The Two-Way Damper requires less force to open the door.

2-Stage Damper also works in the opening direction
from around 115 mm on trailing edge side.



Black colour is available. For details, see the Parts Table (P.724).

Installation

Details of essential parts and options (P.722-)

Standard Parts List

For details of (1) Upper Track, see "Type of Upper Track" (P.717).

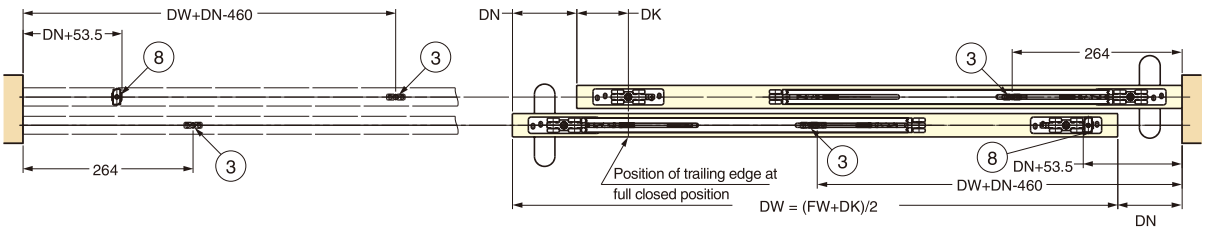
Parts	Selection	Required Parts						Required Parts
	(1) Upper Track	(2) Two-Way Soft Closer	(3) Trigger*	(4) Jig for Trigger*	(5) Upper Roller	(6) Lower Guide S	(7) Embedded Lower Guide Track	(8) Stopper Block
Item Code Item Name		250-022-902 FD50-WRM-DSC	Included with Two-Way Soft Closer	Included with Two-Way Soft Closer	250-022-901 FD50-WRM	250-020-773 FD50-BG18	250-019-971 FD30-HBRT1500SIL	250-020-817 FD50-HSB
Single Sliding	1820 mm × 1 pc	1 pc	2 pcs	1 pc	1 pc	1 pc	1 pc	—
		Parts Set — Item Code: 250-023-991, Item Name: FD50DHCMP						
Overlapping Sliding	1820 mm × 2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs
		Parts Set — Item Code: 250-023-991, Item Name: FD50DHCMP ×2						
Opposite Opening Sliding	3640 mm × 1 pc	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs
		Parts Set — Item Code: 250-023-991, Item Name: FD50DHCMP ×2						

* Includes Retrofit Trigger and Jig for Trigger. Can also be purchased separately. (P.722)

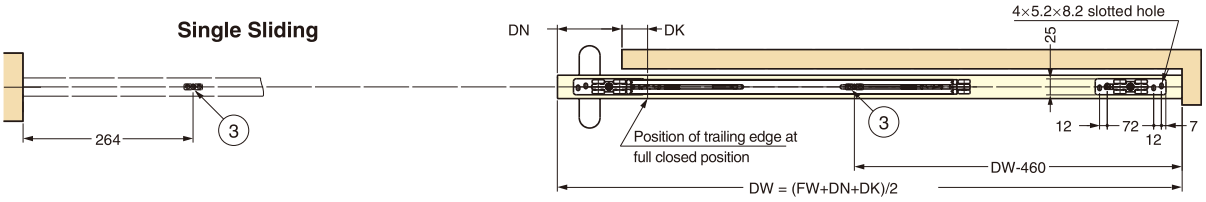
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

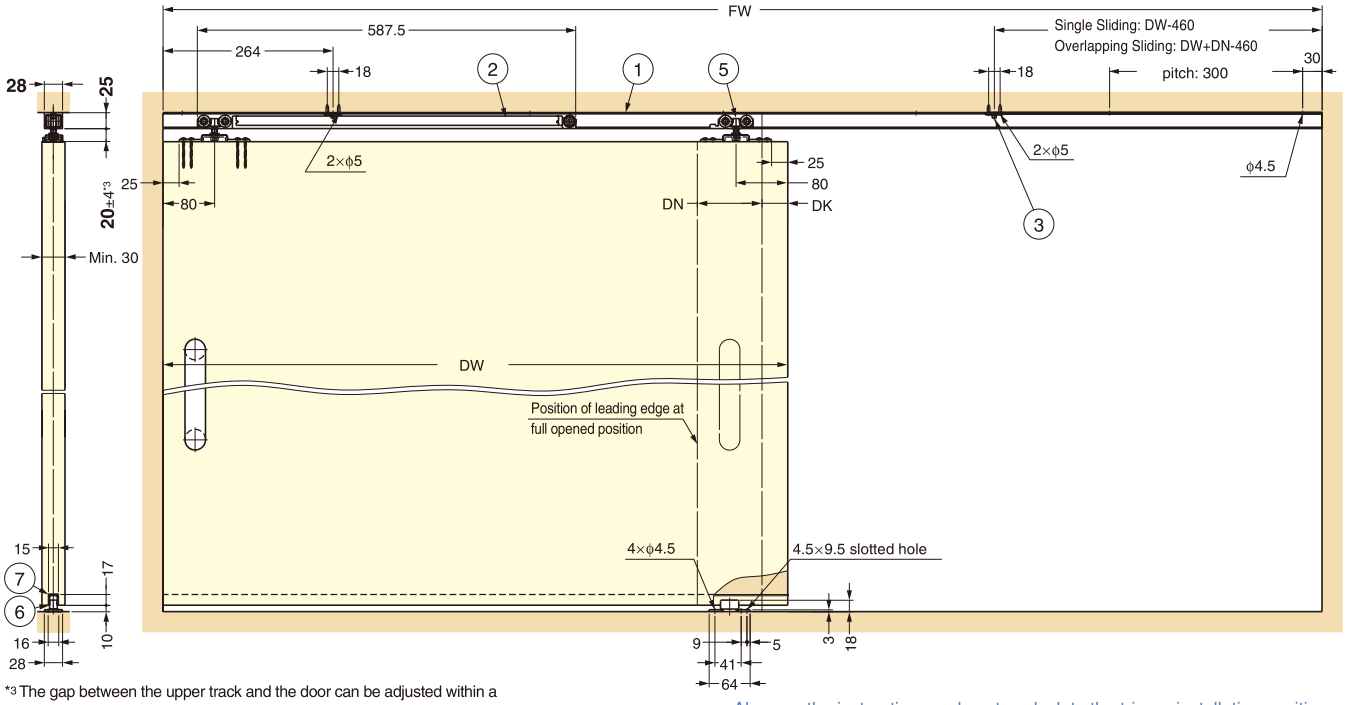
Installation Example

Overlapping Sliding



Single Sliding

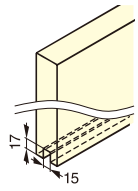




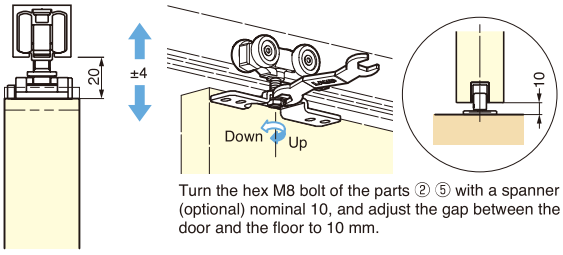
*3 The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.

Also see the instructions on how to calculate the trigger installation position.

Cut Out Dimensions



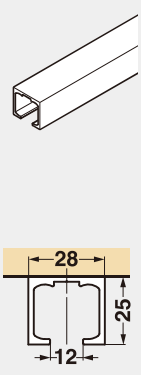
■Vertical Adjustment of Door



Turn the hex M8 bolt of the parts ② ⑤ with a spanner (optional) nominal 10, and adjust the gap between the door and the floor to 10 mm.

Types of Upper Track Recommended screws: Cross-recessed flat head tapping screws 3.8 x 40

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Upper Track	1820mm	250-020-766 FD50-TRM1820SIL	250-020-767 FD50-TRM1820UM	250-025-174 FD50-TRM1820WT
	2000mm	250-021-177 FD50-TRM2000SIL	250-021-178 FD50-TRM2000UM	250-025-177 FD50-TRM2000WT
	2730mm	250-020-768 FD50-TRM2730SIL	250-020-769 FD50-TRM2730UM	250-025-175 FD50-TRM2730WT
	3000mm	250-021-179 FD50-TRM3000SIL	250-021-180 FD50-TRM3000UM	250-025-178 FD50-TRM3000WT
	3640mm	250-020-770 FD50-TRM3640SIL	250-020-771 FD50-TRM3640UM	250-025-176 FD50-TRM3640WT
	4000mm	250-021-181 FD50-TRM4000SIL	250-021-182 FD50-TRM4000UM	250-025-179 FD50-TRM4000WT



SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

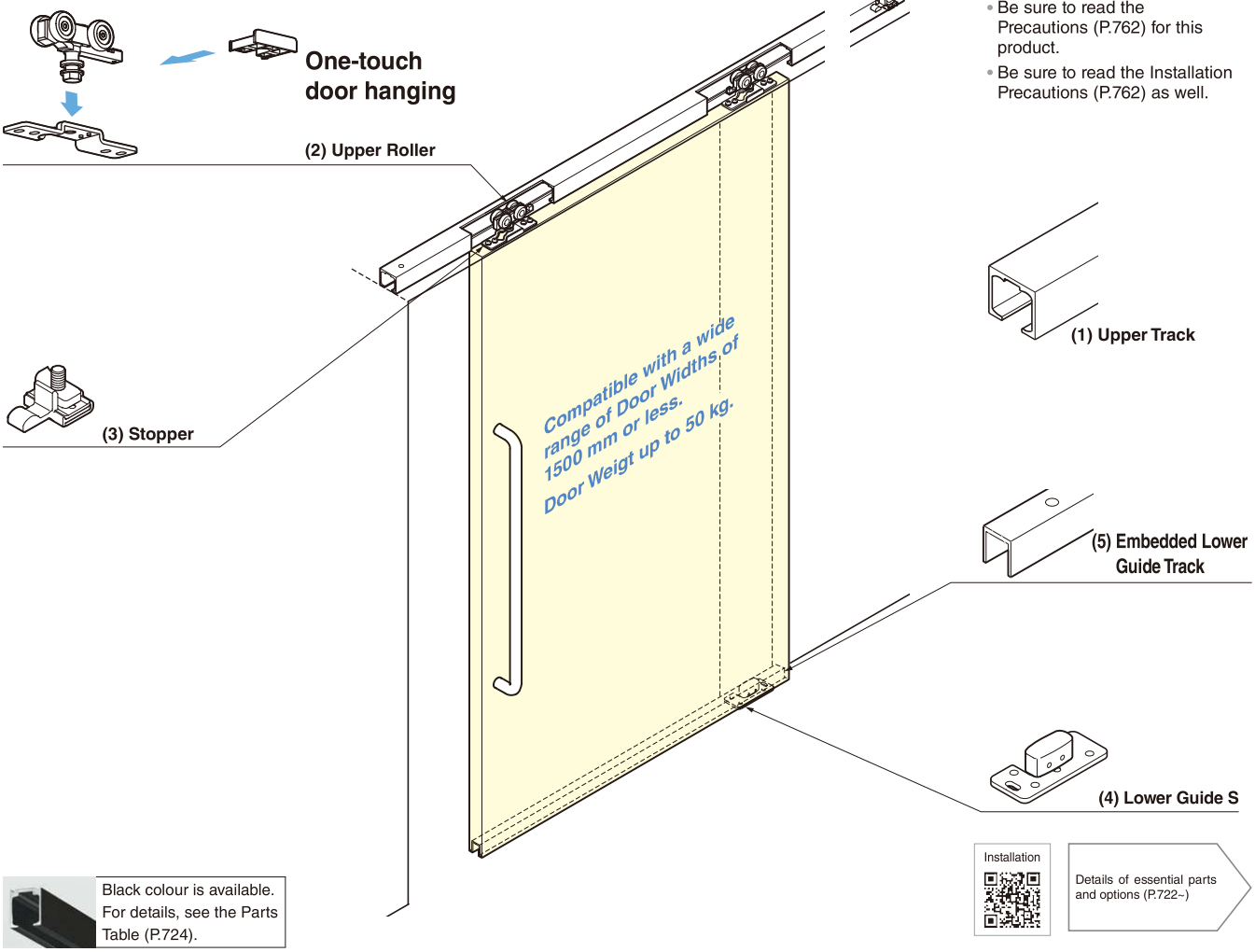
LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD50 Without Damper / Surface Mounted Roller NEW

Latest Info

- Supports doors 50kg max.
- Without damper model of FD50

Passed Private 200K Cycle Test

Features	Door Size (per door)	Adjustment
–	Min. 30 mm / Max. 2,700 mm; MAX 50kg; Max. 1500 mm (Height: <2400 mm) 800-1500 mm (Height: 2401-2700 mm)	–4 mm +4 mm



INSTRUCTION

Remarks
- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.


Black colour is available. For details, see the Parts Table (P.724).

Installation

Details of essential parts and options (P.722~)

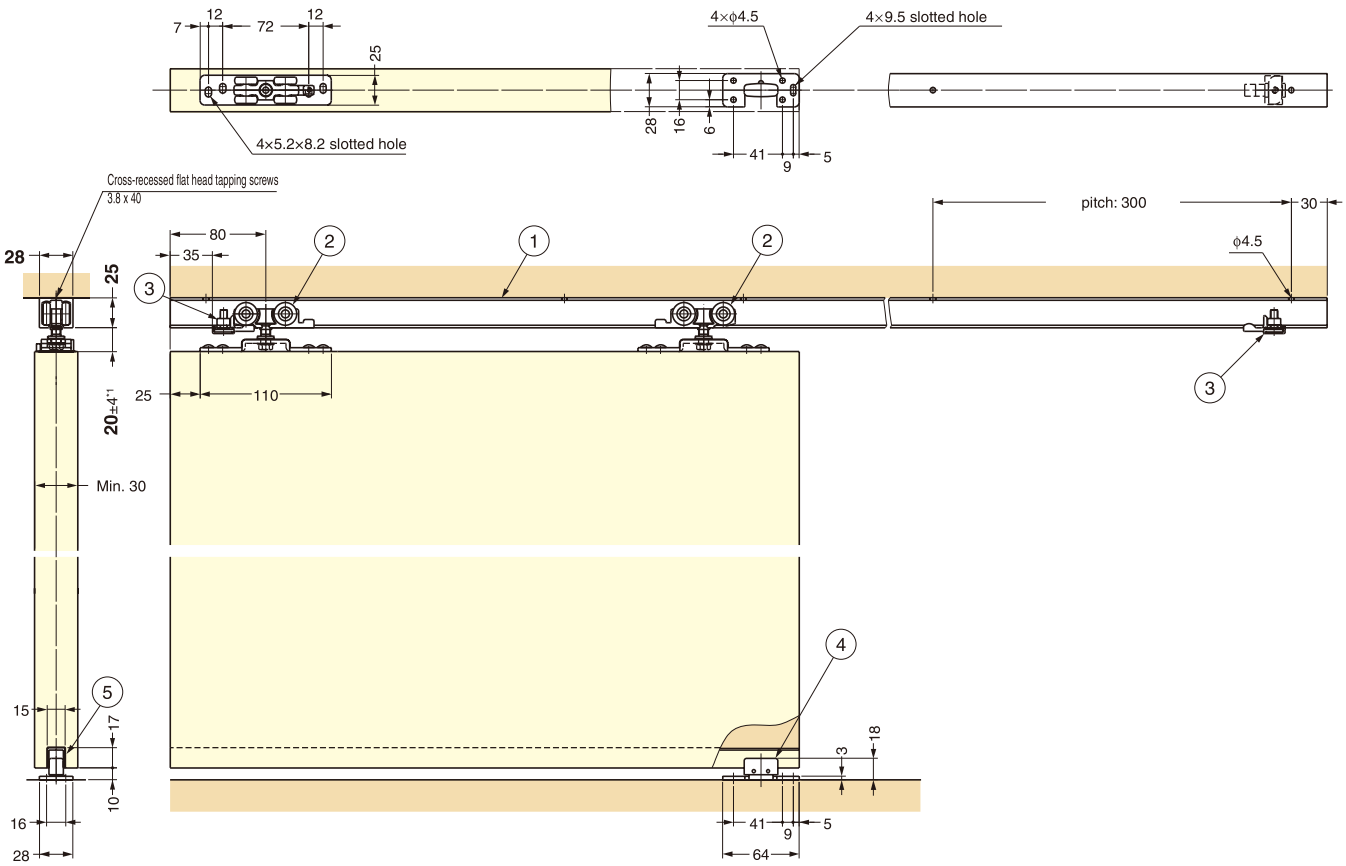
Standard Parts List

For details of (1) Upper Track, see “Type of Upper Track” (P.719).

Parts	Selection	Required Parts			
	(1) Upper Track	(2) Upper Roller	(3) Stopper	(4) Lower Guide S	(5) Embedded Lower Guide Track
Item Code / Item Name		250-022-901 FD50-WRM	250-020-772 FD50-HTST	250-020-773 FD50-BG18	250-019-971 FD30-HBRT1500SIL
Single Sliding	1820 mm × 1 pc	2 pcs	2 pcs	1 pc	1 pc
		Parts Set		Item Code: 250-023-990 Item Name: FD50HMP	
Overlapping Sliding	1820 mm × 2 pcs	4 pcs	4 pcs	2 pcs	2 pcs
		Parts Set		Item Code: 250-023-990 Item Name: FD50HMP ×2	

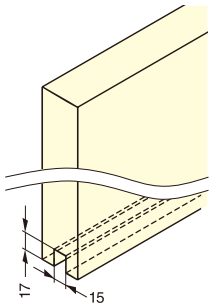
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

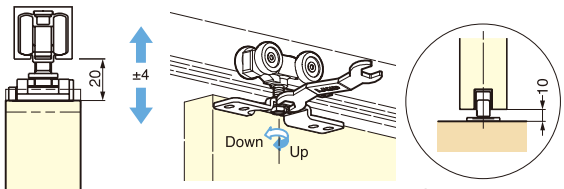


*1 The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.

Cut Out Dimensions



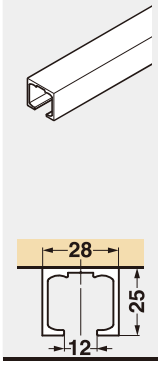
■Vertical Adjustment of Door



Turn the hex M8 bolt of the parts ② with a spanner (optional) nominal 10, and adjust the gap between the door and the floor to 10 mm.

Types of Upper Track Recommended screws: Cross-recessed flat head tapping screws 3.8 x 40

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Upper Track	1820mm	250-020-766 FD50-TRM1820SIL	250-020-767 FD50-TRM1820UM	250-025-174 FD50-TRM1820WT
	2000mm	250-021-177 FD50-TRM2000SIL	250-021-178 FD50-TRM2000UM	250-025-177 FD50-TRM2000WT
	2730mm	250-020-768 FD50-TRM2730SIL	250-020-769 FD50-TRM2730UM	250-025-175 FD50-TRM2730WT
	3000mm	250-021-179 FD50-TRM3000SIL	250-021-180 FD50-TRM3000UM	250-025-178 FD50-TRM3000WT
	3640mm	250-020-770 FD50-TRM3640SIL	250-020-771 FD50-TRM3640UM	250-025-176 FD50-TRM3640WT
	4000mm	250-021-181 FD50-TRM4000SIL	250-021-182 FD50-TRM4000UM	250-025-179 FD50-TRM4000WT



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR SYSTEM FD50 Pocket Door / Two-way Damper / Surface Mounted Upper Roller NEW

Latest Info

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

- Supports doors 50kg max.
- Separable upper tracks.
- Easy maintenance after installation.
- Soft opening/closing motion.

Passed Private 200K Cycle Test

Features	Door Size (per door)	Adjustment
Two-Way Damper 2-Stage Soft Close	Min. 30 mm / Max. 2700 mm MAX 50kg 25 kg or more recommended 774- 1500 mm (Height: <2400 mm) 800- 1500 mm (Height: 2401-2700 mm)	−4 mm +4 mm

INSTRUCTION

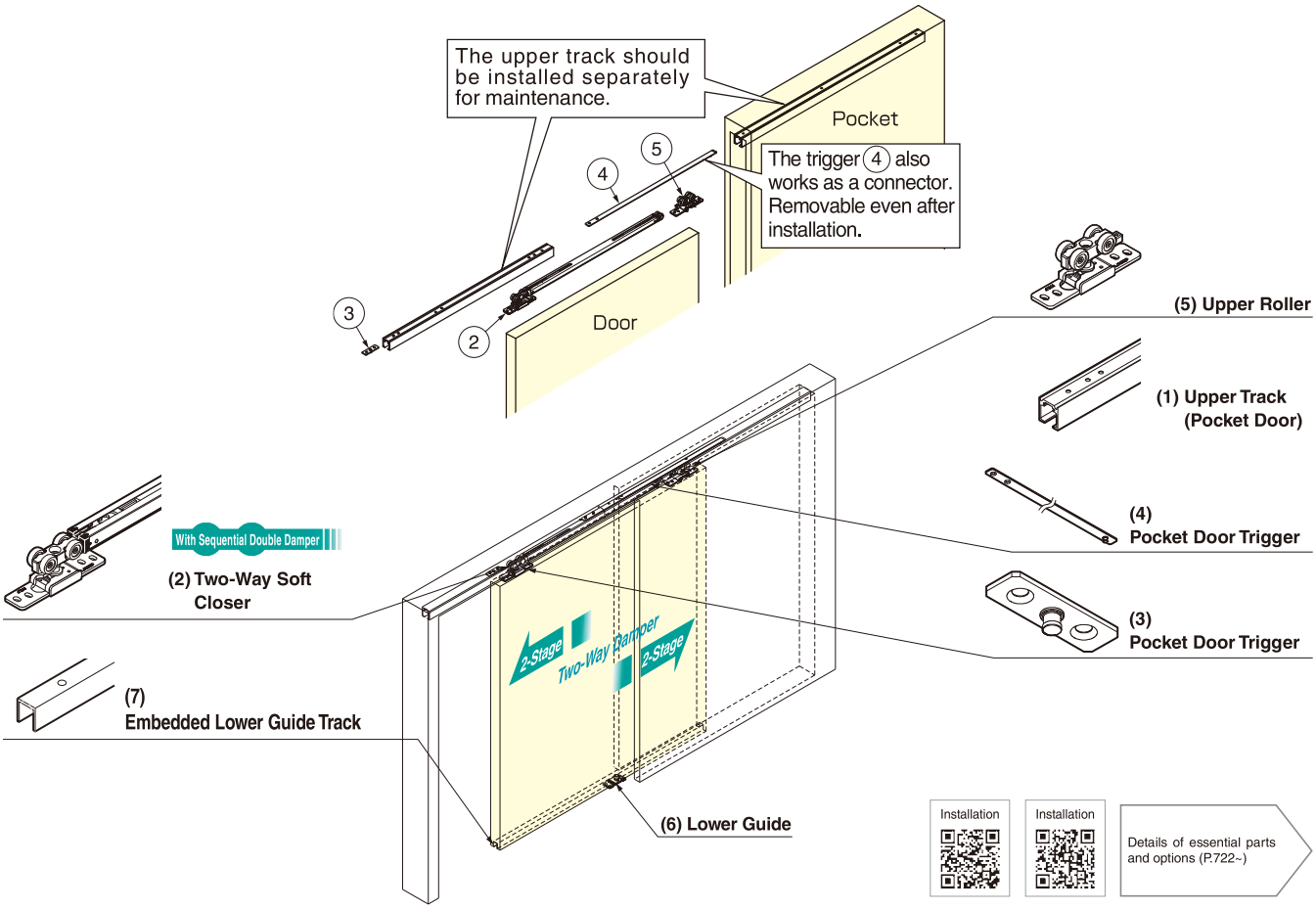
Remarks

- Be sure to read the Precautions (P.762) for this product.
- Be sure to read the Installation Precautions (P.762) as well.

2-Stage **Reliable soft closing from approx. 115mm**

The Two-Way Damper requires less force to open the door.

2-Stage Damper also works in the opening direction from around 115 mm on trailing edge side.



Standard part list

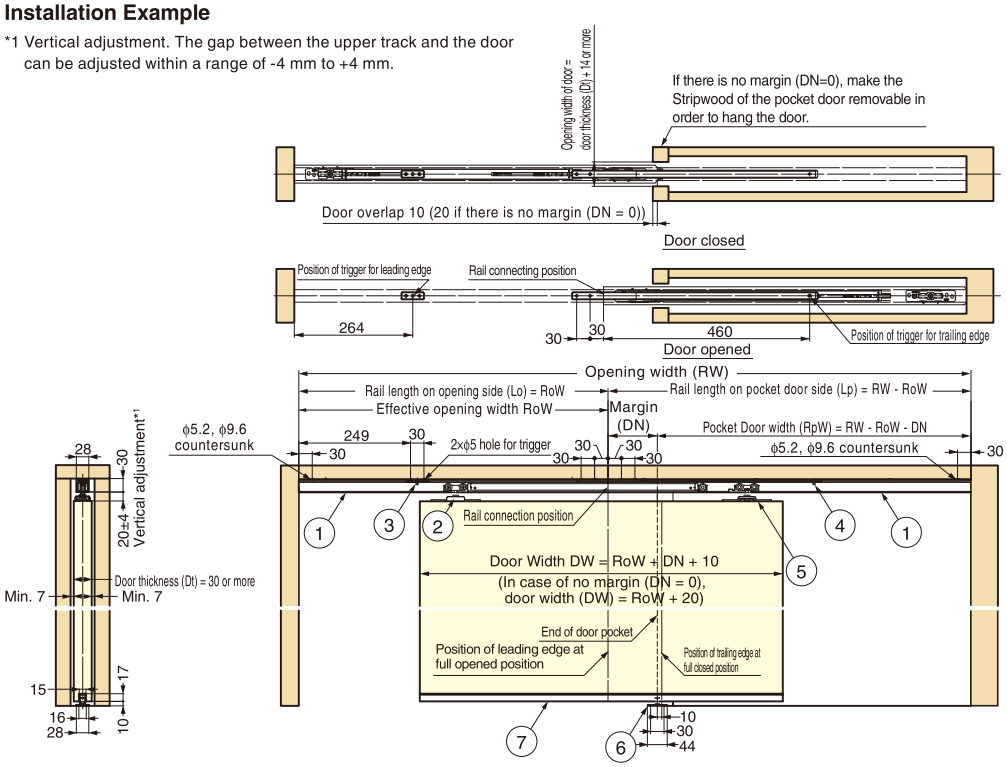
Please also refer to "Types of Upper track." (P.721)

Parts	Selection	Required Parts					
	(1) Upper Track (Pocket Door)	(2) Two-Way Soft Closer	(3) Pocket Door Trigger	(4) Pocket Door Trigger	(5) Upper Roller	(6) Lower Guide	(7) Embedded Lower Guide Track
Item Code Item Name		250-022-902 FD50-WRM-DSC	250-029-707 FD50-TRGPF	250-029-738 FD50-TRGPB-MB	250-022-901 FD50-WRM	250-029-718 FD50-BGR18	250-019-971 FD30-HBRT1500SIL
Pocket Door	1860 mm × 1 pc (can be cut to size)	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
		Parts Set			Item Code: 250-029-770 Item Name: FD50DHCMP-PD		

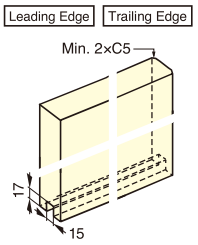
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

*1 Vertical adjustment. The gap between the upper track and the door can be adjusted within a range of -4 mm to +4 mm.

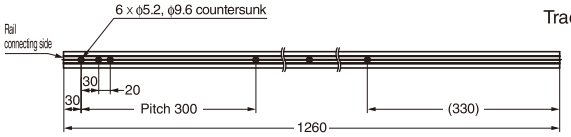


Cut Out Dimensions

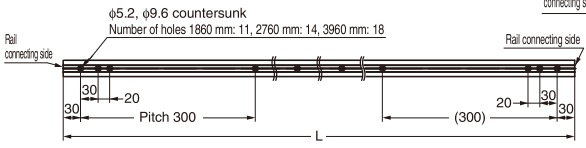


Upper Track Dimensions

- Rail length 1260 mm

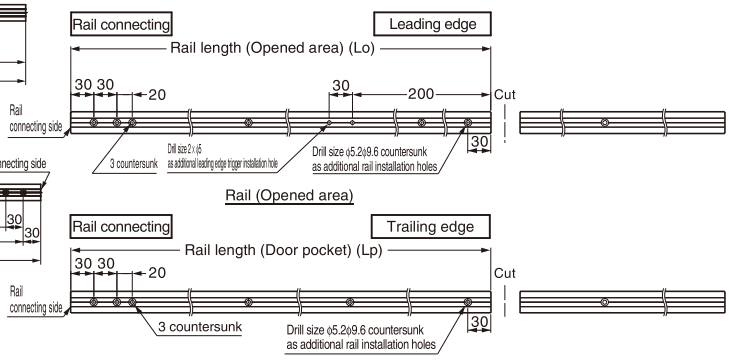


- Rail length 1860 mm, 2760 mm or 3960 mm

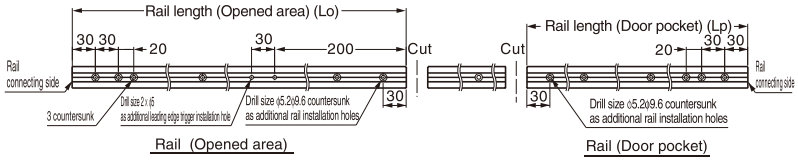


Pocket Door Mortissing Dimensions

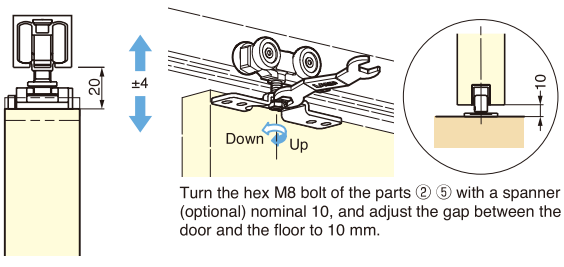
Track length 1260mm (2 pcs)



Track length 1860mm, 2760mm, 3960mm (1 pc)

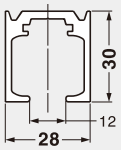


Door Adjustment



Turn the hex M8 bolt of the parts ② ⑤ with a spanner (optional) nominal 10, and adjust the gap between the door and the floor to 10 mm.

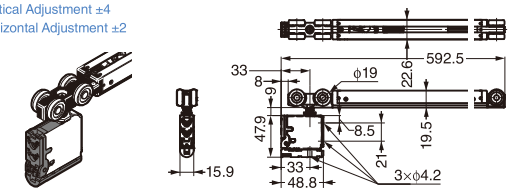
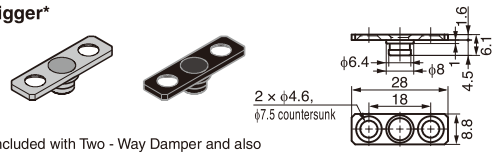
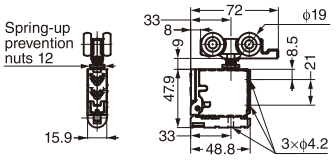
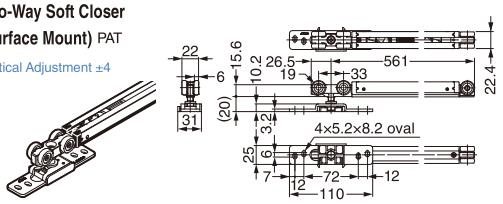
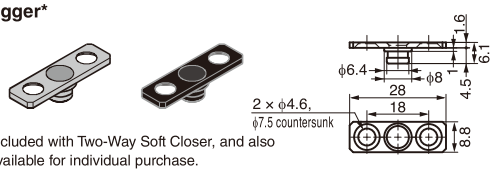
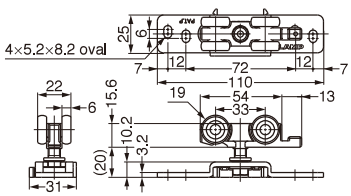
Type of Pocket Door Upper Track Included screws: Cross-recessed flat head tapping screws 4 x 40

Specifications	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Pocket Door Upper Track  	1260mm	250-029-680 FD50-TRP1260-SL	250-029-684 FD50-TRP1260-UM	250-029-688 FD50-TRP1260-WT
	1860mm	250-029-681 FD50-TRP1860-SL	250-029-685 FD50-TRP1860-UM	250-029-689 FD50-TRP1860-WT
	2760mm	250-029-682 FD50-TRP2760-SL	250-029-686 FD50-TRP2760-UM	250-029-690 FD50-TRP2760-WT
	3960mm	250-029-683 FD50-TRP3960-SL	250-029-687 FD50-TRP3960-UM	250-029-691 FD50-TRP3960-WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

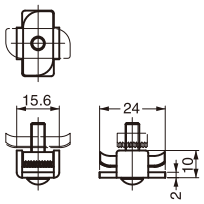
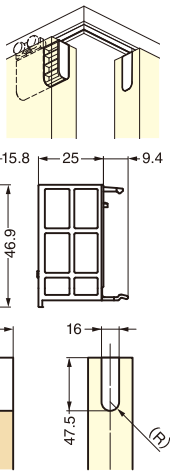
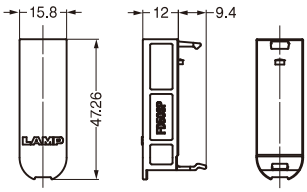
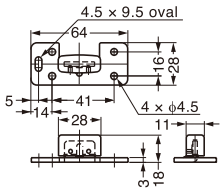
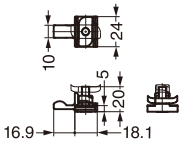
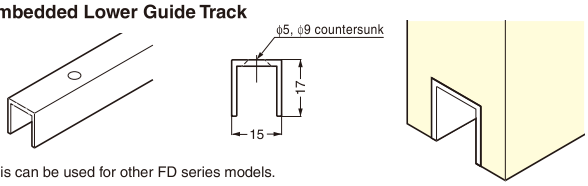
PARTS TABLE

FD50·FD50SP (P.704~P.721)

Compatible Products		Name	Dimensions	Specifications		Item Code / Item Name
FD50·FD50SP (P.704~P.721)	Recessed Mount	**Two-Way Soft Closer** PAT Vertical Adjustment ±4 Horizontal Adjustment ±2		**Two-way soft closer features:** **- Tool-Free Door Mounting/Removal.** **- Door Position Adjustability.** **- Bounce-Protection Nuts Included.** • Main material: Steel/Polyacetal (POM) • Finish: Chromate (trivalent)/Grey Included screws: Cross-recessed panhead tapping screws 3.8 × 40, 3 pcs		**250-056-001** **FD50SP-WRH-DSC**
		Spanner	–	**Use to tighten the hex heads of the bounce prevention nuts in the upper roller, Two-Way Soft Closer and Single Soft Closer.** • Material: Steel • Finish: Chromate (trivalent)		**250-052-629** **FDSP-SP**
		Trigger*		**Trigger for operating the Two-Way Soft Closer. 2 pcs included.** • Material: Steel • Finishing: Chromate (trivalent) Included screw: Cross-recessed countersunk tapping screws 4x30, 4 pcs	Silver	**250-022-031** **FD50-TRG-SL**
		* Included with Two - Way Damper and also available for individual purchase.			Black	**250-054-634** **FD50-TRG-BL**
		Jig PAT.P * * Included with Two-Way Soft Closer, and also available for individual purchase. Read the precautions for installation (P.762) for information on using this product.	–	**A jig used to mount the retrofit trigger on the track. 1 pc included with Two-Way Soft Closer.** • Material: Polyacetal (POM) • Colour: Yellow		**250-024-556** **FD50-TRJ**
		Upper Roller Vertical Adjustment ±4 Horizontal Adjustment ±2		**This recessed type enables the door to be mounted and removed without tools. The door can be adjusted vertically and horizontally through controls at the door edge.** **With nuts to prevent door bouncing.** • Material: Steel/Polyacetal (POM) • Finish: Chromate (trivalent)/Grey Included screws: Cross-recessed panhead tapping screws 3.8 × 40 3 pcs		**250-056-002** **FD50SP-WRH**
	Surface Mount	**Two-Way Soft Closer (Surface Mount)** PAT Vertical Adjustment ±4		**A Two-Way Soft Close that slowly and safely opens and closes on both sides of the door. This surface type enables the door to be mounted and removed without tools. The door can be adjusted vertically comes with bounce prevention nuts.** • Main material: Steel/Polyacetal (POM) • Finish: Coloured chromate /Natural Included screw: Cross-recessed countersunk tapping screws 4x45, 4 pcs		**250-022-902** **FD50-WRM-DSC**
		Trigger*		**Trigger for operating the Two-Way Soft Closer. 2 pcs included.** • Material: Steel • Finishing: Chromate (trivalent) Included screw: Cross-recessed countersunk tapping screws 4x30, 4 pcs	Silver	**250-022-031** **FD50-TRG-SL**
		* Included with Two-Way Soft Closer, and also available for individual purchase.			Black	**250-054-634** **FD50-TRG-BL**
		Jig PAT.P * * Included with Two-Way Soft Closer, and also available for individual purchase. Read the precautions for installation (P.762) for information on using this product.	–	• Material: Polyacetal (POM) • Colour: Yellow		**250-024-556** **FD50-TRJ**
		Upper Roller Vertical Adjustment ±4		**This surface type enables the door to be mounted and removed without tools. The door can be adjusted vertically through controls at the door edge.** • Material: Steel/Polyacetal (POM) • Finishing: Nickel/Natural Included screw: Cross-recessed countersunk tapping screws 4x45, 4 pcs		**250-022-901** **FD50-WRM**

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PARTS TABLE

Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FD50·FD50SP (P.704~P.721)	**Stopper Block**		**Door stopper assembled into upper track. This stops the upper roller at a suitable position and prevents the door from coming off the lower guide.** • Material: Steel • Finish: Clear Zinc Chromate	Natural	250-020-817 FD50-HSB
				Black	250-054-642 FD50-HSB-BL
Recessed Mount	**Spacer Cap (for 90° Convex Corners)** White, Light Brown, Dark Brown, Black *In combination with Upper Roller FD50SP-WRH	 Cut Out Dimensions*	**This spacer creates distance between the door end and the roller, enabling the door to fit in a 90° convex corner.** Caution: Be sure to use with the Soft Closer. • Material: Polypropylene (PP) • Colour: White, light brown, dark brown, black	White	250-056-038 FDSP-WRH-SCP25-WT
				Light Brown	250-056-039 FDSP-WRH-SCP25-LBR
				Dark Brown	250-056-040 FDSP-WRH-SCP25-DBR
				Black	250-056-041 FDSP-WRH-SCP25-BL
Recessed Mount	**Spacer Cap With Stopper** White, Light Brown, Dark Brown, Black * In combination with Upper Roller FD50SP-WRH		**Required when using stoppers.** Caution: Not required for Two-Way Soft Closer. • Material: Polypropylene (PP) • Colour: White, light brown, dark brown, black	White	250-056-042 FD50SP-WRH-SCP12-WT
				Light Brown	250-056-043 FD50SP-WRH-SCP12-LBR
				Dark Brown	250-056-044 FD50SP-WRH-SCP12-DBR
				Black	250-056-045 FD50SP-WRH-SCP12-BL
	Lower Guide S		**Rigid lower guide made of stainless steel.** • Material: Stainless Steel (SUS304) /Polyacetal (POM) • Finish: Plain/Natural Screws Included: (Stainless Steel) Cross-recessed binding head tapping screws 4 × 16, 5 pcs		250-020-773 FD50-BG18
	Stopper		**A upper stopper for sliding doors. Fixing nuts for retrofitting are used.** Caution: Not required for Two-Way Soft Closer. • Material: Steel/Polyacetal (POM) • Finish: Clear Zinc Chromate	Natural	250-020-772 FD50-HTST
				Black	250-054-637 FD50-HTST-BL
	Embedded Lower Guide Track This can be used for other FD series models.		**Embedded lower guide rail.** • Material: Aluminium alloy • Finish: Silver anodized + coating/Clear	Length 1000 mm	250-021-996 FD30-HBRT1000SIL
				Length 1500 mm	250-019-971 FD30-HBRT1500SIL

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SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

SOFT CLOSE / STANDARD UPPER TRACK

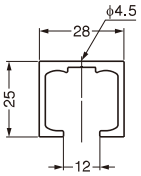
An end plate to cover the end of the upper track and a cleaner to remove shavings left over after cutting the upper track are also available.

FD50·FD50SP (P.704~P.711, P.716~P.721)

Upper Track (Surface mount)



Hole Pitch: Approx. 300 mm
Pitch End: Approx. 30 mm



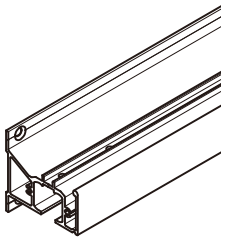
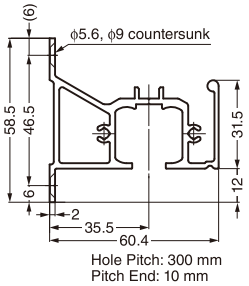
Specifications			Item Code / Item Name
• Material: Aluminium alloy • Finish: Silver anodized + coating/clear Included screws Size 3.8 x 40 cross-recessed flat head tapping screws	Silver	Length 1820mm	250-020-766 FD50-TRM1820SIL
		Length 2000mm	250-021-177 FD50-TRM2000SIL
		Length 2730mm	250-020-768 FD50-TRM2730SIL
		Length 3000mm	250-021-179 FD50-TRM3000SIL
		Length 3640mm	250-020-770 FD50-TRM3640SIL
		Length 4000mm	250-021-181 FD50-TRM4000SIL
• Material: Aluminium alloy • Finish: Amber anodized + coating/clear Included screws Size 3.8 x 40 cross-recessed flat head tapping screws (antique copper finish)	Amber	Length 1820mm	250-020-767 FD50-TRM1820UM
		Length 2000mm	250-021-178 FD50-TRM2000UM
		Length 2730mm	250-020-769 FD50-TRM2730UM
		Length 3000mm	250-021-180 FD50-TRM3000UM
		Length 3640mm	250-020-771 FD50-TRM3640UM
		Length 4000mm	250-021-182 FD50-TRM4000UM
• Material: Aluminium alloy • Finish: Anodized + coating/white Included screws Size 3.8 x 40 cross-recessed flat head tapping screws (flat head: coating/white)	White	Length 1820mm	250-025-174 FD50-TRM1820WT
		Length 2000mm	250-025-177 FD50-TRM2000WT
		Length 2730mm	250-025-175 FD50-TRM2730WT
		Length 3000mm	250-025-178 FD50-TRM3000WT
		Length 3640mm	250-025-176 FD50-TRM3640WT
		Length 4000mm	250-025-179 FD50-TRM4000WT
• Material: Aluminium alloy • Finish: Black anodized + coating/clear Included screws Size 3.8 x 40 cross-recessed flat head tapping screws (flat head: coating/black)	Black	Length 1820mm	250-054-632 FD50-TRM1820BL
		Length 4000mm	250-054-633 FD50-TRM4000BL

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SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
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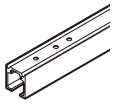
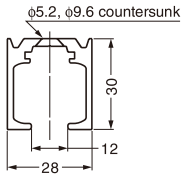
OUTSET UPPER TRACK

An end plate to cover the end of the upper track and a cleaner to remove shavings left over after cutting the upper track are also available.

Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FD50SP (P.712)	Outset Upper Track	  	• Material: Aluminium alloy • Finish: Silver anodized + coating/clear Included screws Size 4 x 40 cross-recessed flat head tapping screws	Silver	Length 2120 mm	250-041-972 FD50-TRA2120-SL
					Length 3020 mm	250-041-975 FD50-TRA3020-SL
			• Material: Aluminium alloy • Finish: Amber anodized + coating/clear Included screws Size 4 x 40 cross-recessed flat head tapping screws (antique copper finish)	Amber	Length 2120 mm	250-041-973 FD50-TRA2120-UM
					Length 3020 mm	250-041-976 FD50-TRA3020-UM
			• Material: Aluminium alloy • Finish: Anodized + coating/white Included screws Size 4 x 40 cross-recessed flat head tapping screws (flat head:coating/white)	White	Length 2120 mm	250-041-974 FD50-TRA2120-WT
					Length 3020 mm	250-041-977 FD50-TRA3020-WT

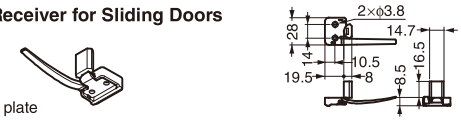
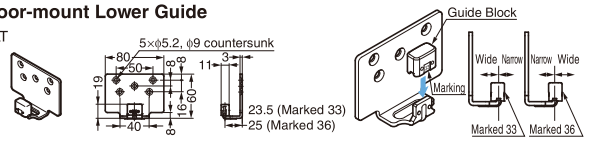
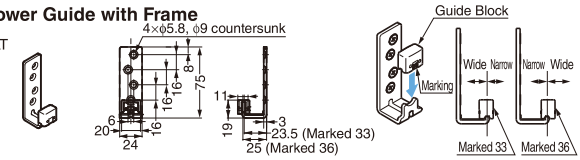
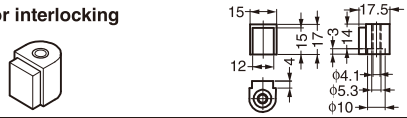
POCKET DOOR UPPER TRACK

An end plate to cover the end of the upper track and a cleaner to remove shavings left over after cutting the upper track are also available.

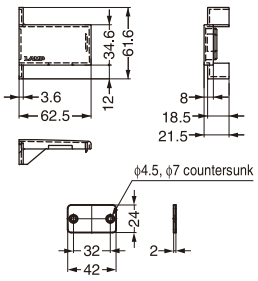
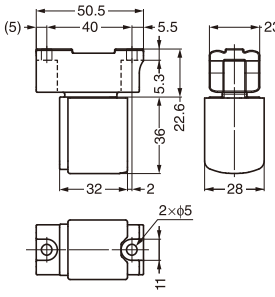
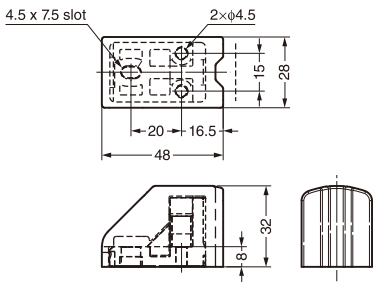
Compatible Products	Name	Dimensions	Specifications			Item Code / Item Name
FD50·FD50SP (P.714, P.720)	POCKET DOOR	Pocket Door Upper Track (Surface mount)   	• Material:Aluminium alloy • Finish: Silver anodized + coating/clear Included screws Size 4 x 40 cross-recessed flat head tapping screws	Silver	Length 1260 mm	250-029-680 FD50-TRP1260-SL
					Length 1860 mm	250-029-681 FD50-TRP1860-SL
					Length 2760 mm	250-029-682 FD50-TRP2760-SL
					Length 3960 mm	250-029-683 FD50-TRP3960-SL
			• Material: Aluminium alloy • Finish: Amber anodized + coating/clear Included screws Size 4 x 40 cross-recessed flat head tapping screws (antique copper finish)	Amber	Length 1260 mm	250-029-684 FD50-TRP1260-UM
					Length 1860 mm	250-029-685 FD50-TRP1860-UM
					Length 2760 mm	250-029-686 FD50-TRP2760-UM
					Length 3960 mm	250-029-687 FD50-TRP3960-UM
			• Material: Aluminium alloy • Finish: Anodized + coating/white Included screws Size 4 x 40 cross-recessed flat head tapping screws (flat head:coating/white)	White	Length 1260 mm	250-029-688 FD50-TRP1260-WT
					Length 1860 mm	250-029-689 FD50-TRP1860-WT
					Length 2760 mm	250-029-690 FD50-TRP2760-WT
					Length 3960 mm	250-029-691 FD50-TRP3960-WT

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PARTS FOR SYNCHRO MODEL

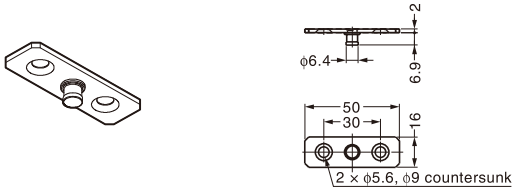
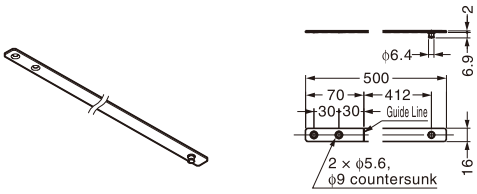
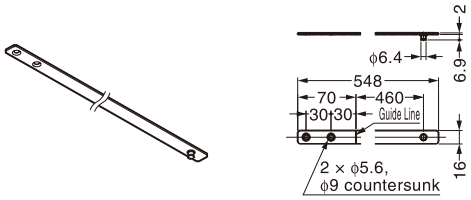
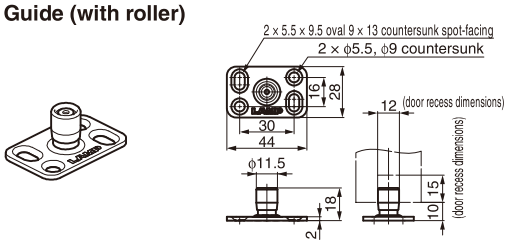
Compatible Products	Name	Dimensions	Specifications	Item Code / Item Name
FD50SP (P.708~P.711)	**Lower Guide Receiver for Sliding Doors** PAT With stopper plate		Guide receiver mounted on the bottom of interlocking sliding doors. • Main material: Stainless steel (SUS304)/ Polyacetal (POM) • Finish: Barrel polished/Gray 1 set: Left/right 1 each	250-022-261 FD30-HRGU
	Door-mount Lower Guide PAT		Guide mounted on the driven door of interlocking sliding doors. Supports two types of door thickness, as the block orientation can be changed by 180° in assembly. Door thickness 30 to 34 mm: Imprint 33 Door thickness 35 to 38 mm: Imprint 36 • Main material: Stainless steel (SUS304)/ Polyacetal (POM) • Finish: Barrel polished/Gray	250-022-262 FD30-HRDG
	Lower Guide with Frame PAT		Guide with frame which moves the driven door of interlocking sliding doors. Supports two types of door thickness, as the block orientation can be changed by 180° in assembly. Door thickness 30 to 34 mm: Imprint 33 Door thickness 35 to 38 mm: Imprint 36 • Main material: Stainless steel (SUS304)/ Polyacetal (POM) • Finish: Barrel polished/Gray	250-022-263 FD30-HBGF
	Lower guide block for interlocking sliding doors.		**Lower guide block for interlocking sliding doors.** • Main material: Ethylene propylene rubber (EPDM) • Colour: Black	250-022-264 FD30-HRDB

PARTS FOR OUTSET MODEL

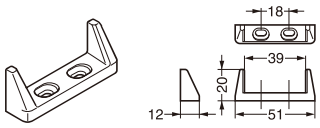
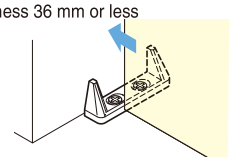
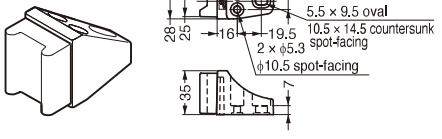
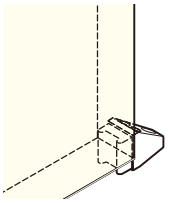
Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FD50SP (P.712)	**Mounting Screw Set for Outset Trigger**	**Size 4 x 10 cross-recessed flat head screws (flat head ϕ6) Hex M4 nuts**	**Set of M4 screws and nuts for mounting the trigger included with Two-Way soft closer to outset upper track.** • Material: Steel • Finish: Chromate		250-041-967 FD50-TRA-TRGN
	SIDE COVER (for Outset Track) PAT Grey Brown White		**OUTSET TRACK COVER** • Material: Steel/ABS resin • Finish/Colour: Chromate finish/grey, brown, white Included screws: Size 4 x 25 cross-recessed flat head S-Tite screws (flat head ϕ6) (4 pcs)	Grey (1 each on left and right) Brown (1 each on left and right) White (1 each on left and right)	250-041-969 FD50-HASC-GR 250-041-970 FD50-HASC-BR 250-041-971 FD50-HASC-WT
	DOOR STOPPER (for Upper Track)		**A door stopper that can be installed on the upper track. See the Stacking Dimensions if using an upper track other than the Outset Upper Track.** • Material: Zinc alloy/elastomer • Finish/colour: Silver coating/grey Included: Size 4 x 30 cross-recessed pan head tapping screws (2 pcs) Size M4 x 16 cross-recessed pan head screws (2 pcs) Size M4 hex nuts (2 pcs)		250-041-968 FD50-TRA-STP
	DOOR STOPPER (Floor Mount)		**A floor mounting door stopper for doors that do not touch the top frame.** • Material: Zinc alloy (ZDC)/elastomer • Finish/colour: Coloured chromate finish (trivalent)/grey Included screws: Size 4 x 30 cross-recessed pan head tapping screws (3 pcs)		250-041-956 FD35EV-FSTP

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POCKET DOOR PARTS

Compatible Products	Name	Dimensions	Specifications	Item Code / Item Name
FD50·FD50SP (P.714, P.715, P.720, P.721)	**Pocket Door Trigger (for door leading edge)**		**A Trigger for door leading edge of pocket door** • Material: Steel • Finish: Coloured chromate (trivalent), Black chromate (trivalent) Included screws: Cross-recessed flathead tapping screws 4 × 30	250-029-707 FD50-TRGPF
	Pocket Door Trigger (for door trailing edge, recessed mount)		**For two-way soft closer (recessed mount /pocket door model).** • Material: Steel • Finish: Coloured chromate (trivalent), Black chromate (trivalent) Included screws: Cross-recessed flathead tapping screws 4 × 30	250-029-706 FD50-TRGPB-HB
	Trigger (for door trailing edge, surface mount)		**For two-way soft closer (surface mount /pocket door model).** • Material: Steel • Finish: Coloured chromate (trivalent), Black chromate (trivalent) Included screws: Cross-recessed flathead tapping screws 4 × 30	250-029-738 FD50-TRGPB-MB
	Lower Guide (with roller)		**A lower guide with a depth adjustment mechanism.** • Material: Stainless Steel (SUS304) /Polyacetal (POM) • Finish: Plain/Natural Screws Included: (Stainless Steel) Cross-recessed binding head tapping screws 4 × 20	250-029-718 FD50-BGR18

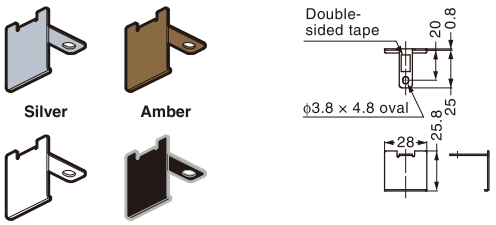
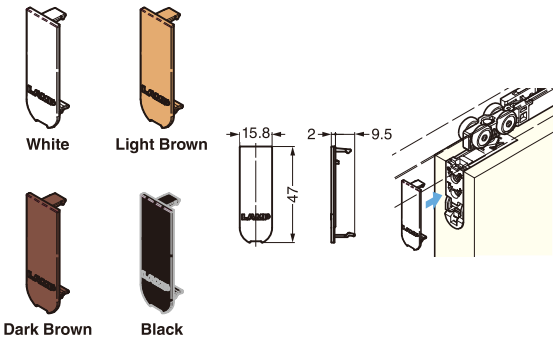
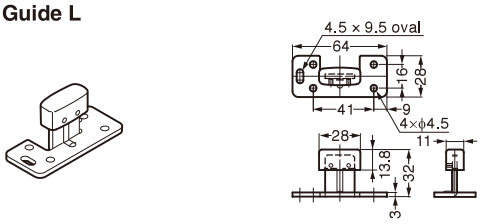
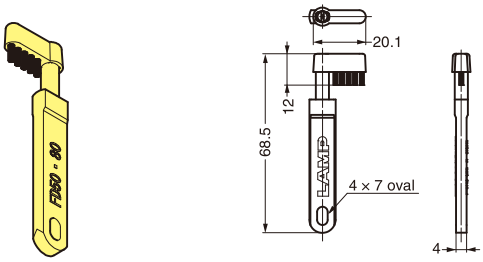
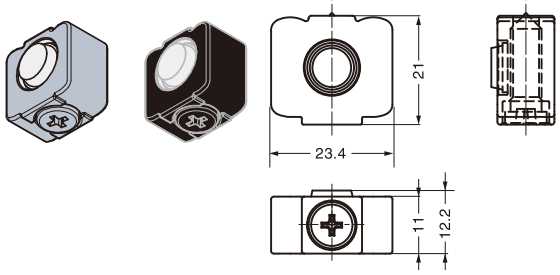
OTHER OPTION

Compatible Products	Name	Dimensions	Mounting Example	Specifications	Item Code / Item Name
FD50·FD50SP (P.704~P.721)	**Anti-vibration Bracket**		Applicable Door Thickness 36 mm or less 	**Prevents the vibration of the door's leading edge.** • Material: Polyamide (PA) • Colour: Light Brown Included screws: Cross-recessed flathead tapping screws 3.5 × 25, 2 pcs	250-017-157 FD30-HTF
	Door stopper (floor mount)			**A floor mounted door stopper for outset doors (do not come into contact with a frame).** • Material: Zinc alloy/Rubber • Finish: Silver coating/Black Included screws: Cross-recessed binding head tapping screws 4 × 30, 3 pcs	250-018-497 FD30-HTKY
	Spanner (for Soft Close)		–	**Use to tighten the hex heads of the hanger bolts in the Upper Roller and Two-Way Damper.** • Material: Steel • Finish: Coloured Chromate (Trivalent)	250-017-168 FD30-FSP

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

OTHER OPTION

FD50·FD50SP (P.704~P.721)

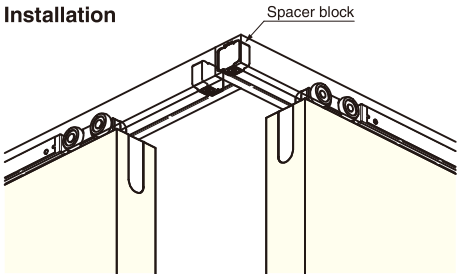
Compatible Products	Name	Dimensions	Mounting Example	Specifications		Item Code / Item Name
FD50·FD50SP (P.704~P.721)	**End Plate for Upper Track**			**A cover to conceal the end of the FD50 Upper Track .** • Material: Steel • Finish: Baked acrylic finish Included screws: Cross-recessed panhead tapping screws 3.5 × 20 1 pc **Caution:Cannot be used on Pocket Door Upper Track due to the difference in cross-sectional dimensions.**	Silver	**250-029-713** **FD50-TREP-SL**
					Amber	**250-029-714** **FD50-TREP-UM**
					White	**250-029-715** **FD50-TREP-WT**
					Black	**250-054-638** **FD50-TREP-BL**
	Upper Roller Cover Cap Recessed Mount			**Cover cap for upper roller.** • Material: Polypropylene (PP) • Colour: White, Light Brown, Dark Brown, Black	White	**250-052-632** **FDSP-WRH-CP-WT**
					Light Brown	**250-052-633** **FDSP-WRH-CP-LBR**
					Dark Brown	**250-052-634** **FDSP-WRH-CP-DBR**
					Black	**250-056-482** **FDSP-WRH-CP-BL**
	Lower Guide L			**Rigid lower guide made of stainless steel. Use when space under the door is required.** • Material: Stainless Steel (SUS304) /Polyacetal (POM) • Finish: Plain/Natural Screws Included: (Stainless Steel) Cross-recessed binding head tapping screws 4 × 16, 5 pcs		**250-020-774** **FD50-BG32**
	Cleaner for Upper Track			**A brush for cleaning debris from the FD50 upper track , such as shavings left over after cutting.** • Material: Polypropylene (PP)/ Polyamide (PA) • Colour: Yellow		**250-025-993** **FD50-TRC**
	Spacer Block			**Ideal for sliding doors with a 90° outer corner storage.** **Can be used with the Two-Way Soft Close (recessed type) if the upper track is recessed in the upper frame.** **Cannot be used with the Pocket Door Upper Track.** **See the Outer Corner Spacer Block for an illustration of the storage and details on the installation method.** • Main material: Zinc alloy/polyurethane (PUR) • Finish: Coloured chromate finish (trivalent) Included screws Size 4.5 x 40 cross-recessed pan head tapping screw (1 pc)	Silver	**250-041-236** **FD50-HSPB**
					Black	**250-054-643** **FD50-HSPB-BL**

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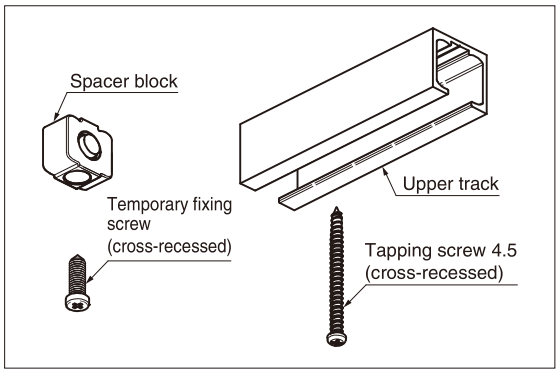
Spacer Block for Convex Corner

The spacer is used together with a two-way soft closer (recessed and surface mount types). It is required when the upper track is embedded into the upper frame.
Cannot be used on the upper track for pocket doors.

Installation

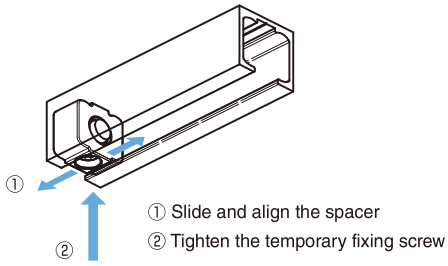


Parts

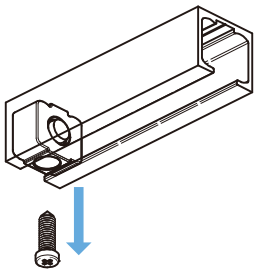


How to Install

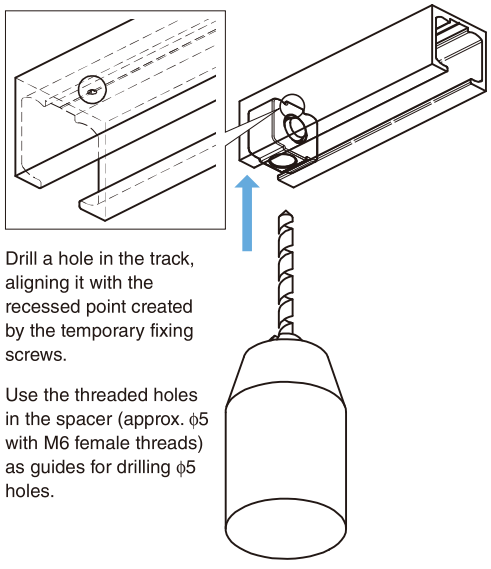
[Step 1] Align the spacer block with the screw hole and tighten the temporary fixing screw.



[Step 2] Remove the screw after checking if the soft closer works properly.



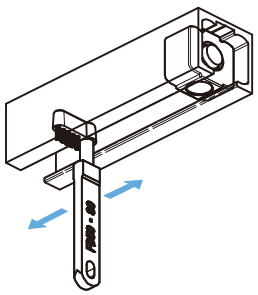
[Step 3] Drill a ϕ5 hole in the track.



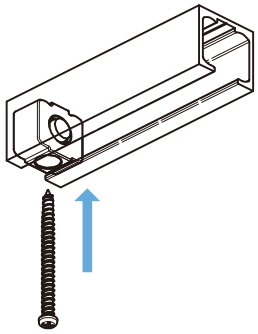
Drill a hole in the track, aligning it with the recessed point created by the temporary fixing screws.

Use the threaded holes in the spacer (approx. ϕ5 with M6 female threads) as guides for drilling ϕ5 holes.

[Step 4] Displace the spacer and clean the inside of the upper track.



[Step 5] Secure the spacer to the through-hole of the track using a tapping screw with a nominal size of 4.5.



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LAMP TOP MOUNTED SLIDING DOOR FOR HEAVY DOORS FD80 Two-Way Damper / Recessed Upper Roller PAT

Latest Info

SELECTION GUIDE
LATERAL OPENING DOOR
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SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

- Two-way Damper for heavy doors, featuring a recessed upper roller that allows the door to open and close slowly and quietly.

Passed Private 200K Cycle Test

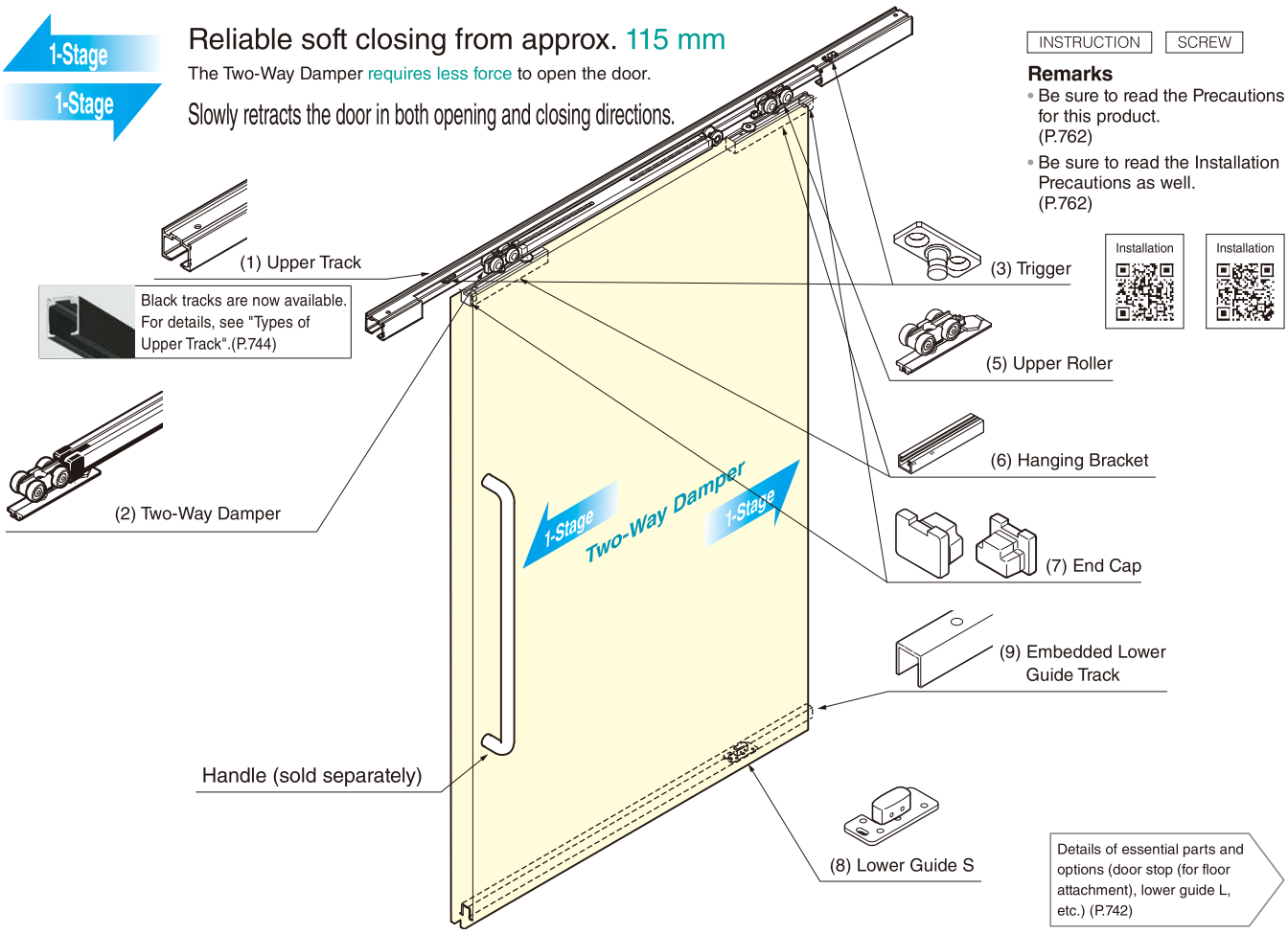
Features	Door Size (per door)	Adjustment
Two-Way Damper	Min. 34 mm / Max. 2700 mm MAX 80kg 35 kg or more recommended 784 - 1500 mm (Height: < 2500 mm) 850 - 1500 mm (Height: 2501 - 2700 mm)	-1 mm +4 mm

1-Stage
1-Stage

Reliable soft closing from approx. 115 mm

The Two-Way Damper requires less force to open the door.

Slowly retracts the door in both opening and closing directions.



INSTRUCTION SCREW

Remarks

- Be sure to read the Precautions for this product. (P.762)
- Be sure to read the Installation Precautions as well. (P.762)

Installation Installation

Details of essential parts and options (door stop (for floor attachment), lower guide L, etc.) (P.742)

Standard Parts List

For details of (1) Upper Track, see "Types of Upper Track". (P.731)

Parts	Selection	Required Parts									Required Parts
	(1) Upper Track	(2) Two-Way Damper	(3) Trigger*1	(4) Trigger Mounting Jig*1	(5) Upper Roller	(6) Hanging Bracket	(7) End Cap	(8) Lower Guide S	(9) Embedded Lower Guide Track	(10) Adjusting Spanner	(11) Stopper Block
Item Code / Item Name		250-022-239 FD80-WRH-DSC	Included with Two-Way Damper	Included with Two-Way Damper	250-022-241 FD80-WRH	250-120-608 FD70B-HB160	250-121-142 FD70B-EC-BL (The parts set is black. White is also available. (P.742))	250-020-773 FD50-BG18	250-019-971 FD30-HBRT1500SIL	250-022-252 FD80-HHSP	250-022-251 FD80-HSB
Single Sliding	Length 2000 mm ×1 pc	1 pc	2 pcs	1 pc	1 pc	2 pcs	2 pcs	1 pc	1 pc	1 pc	–
Overlapping Sliding	Length 2000 mm ×2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	4 pcs	4 pcs	2 pcs	2 pcs	1 pc	2 pcs*2
Opposite Opening Sliding	Length 2000 mm ×2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	4 pcs	4 pcs	2 pcs	2 pcs	1 pc	2 pcs

Parts Set: Item Code: 250-022-253, Item Name: FD80DHCHP

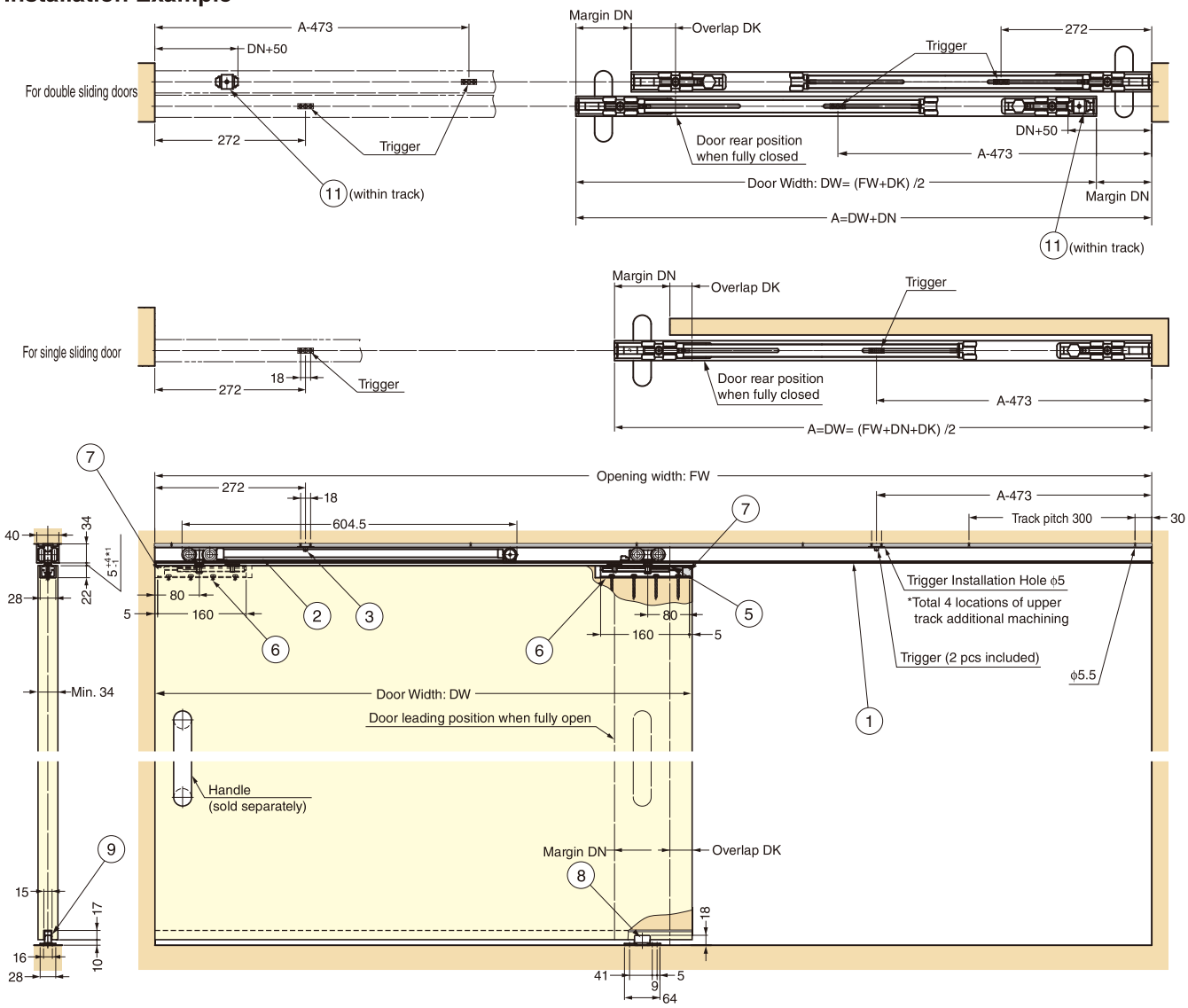
Parts Set: Item Code: 250-024-462, Item Name: FD80DHCHP-2

Parts Set: Item Code: 250-024-462, Item Name: FD80DHCHP-2

*1 Can also be purchased separately. (P.742, P.743) *2 Required when using handles on sliding doors.

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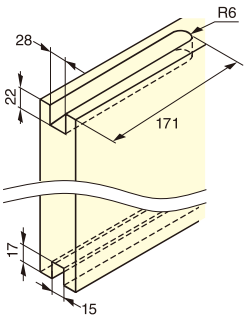
Installation Example



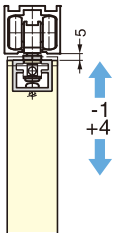
*1 The gap between the upper track and the door can be adjusted within a range of -1 mm to +4 mm.

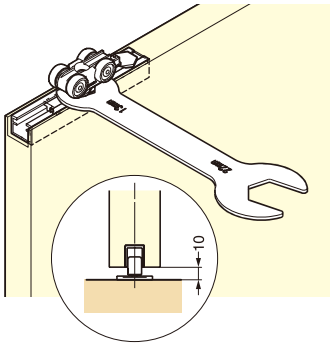
Also see the instructions on how to calculate the trigger installation position. (P.766)

Cut Out Dimensions



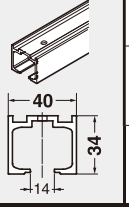
Vertical Adjustment of Door





Rotate the Two-Way Damper (2) and upper roller (5) hanger bolts with a nominal 13 adjusting spanner (10) and adjust so that there is 10 mm of clearance between the door and the floor.

Types of Upper Track Recommended screws: Cross-recessed flat head tapping screws 5 x 40

Upper Tracks	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name	Black Item Code Item Name
(1) Upper Track 	2000 mm	250-022-244 FD80-TRM2000SL	250-022-245 FD80-TRM2000UM	250-048-939 FD80-TRM2000WT	-
	2730 mm	250-022-246 FD80-TRM2730SL	250-022-247 FD80-TRM2730UM	250-048-940 FD80-TRM2730WT	-
	3640 mm	250-022-248 FD80-TRM3640SL	250-022-249 FD80-TRM3640UM	250-048-941 FD80-TRM3640WT	250-048-942 FD80-TRM3640BL

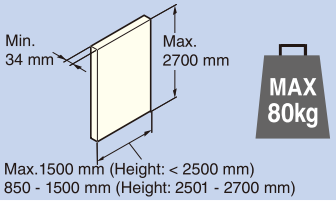
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LAMP TOP MOUNTED SLIDING DOOR FOR HEAVY DOORS FD80 Recessed Upper Roller

Latest Info

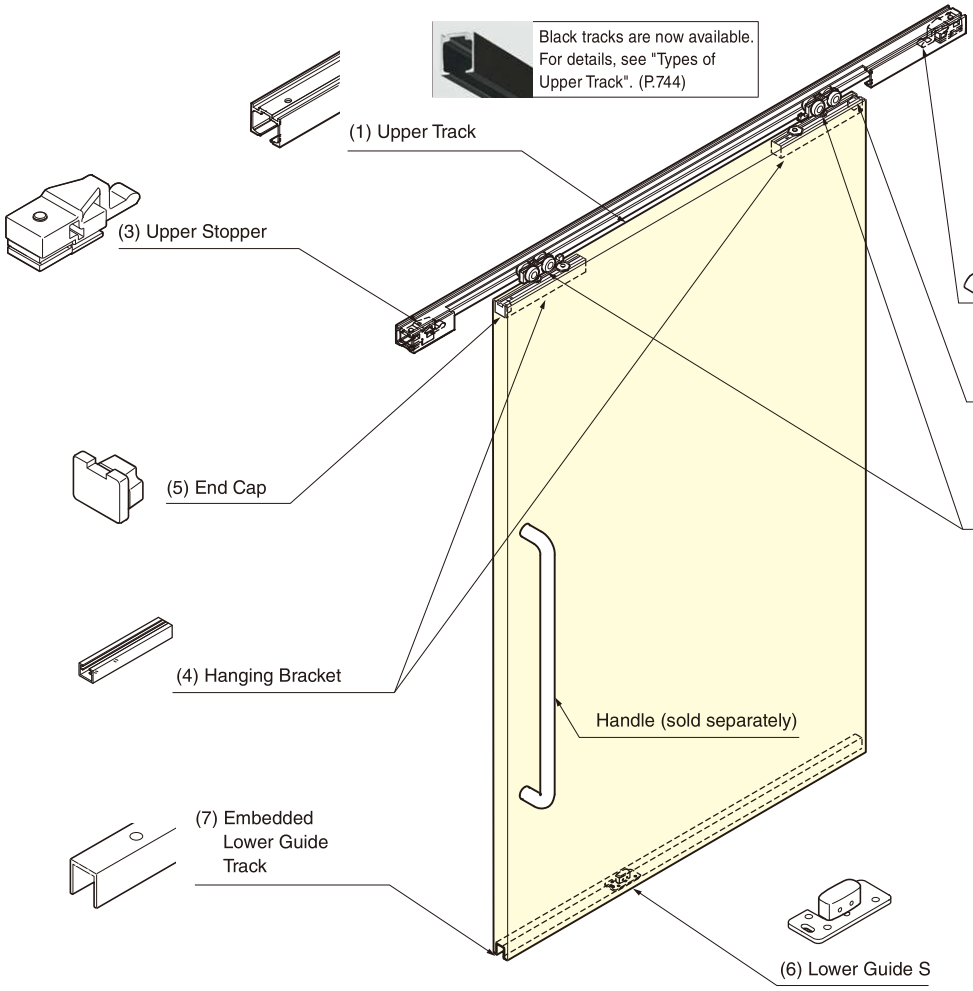
- Supports door weights up to maximum 80 kg.
- Sliding door hardware designed to recess the upper roller into the door.

Passed Private 200K Cycle Test

Features	Door Size (per door)	Adjustment
–		

INSTRUCTION SCREW

Remarks
- Be sure to read the Precautions for this product. (P.762)
- Be sure to read the Installation Precautions as well. (P.762)

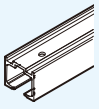
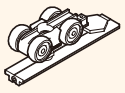
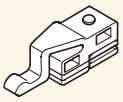
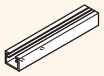
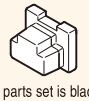
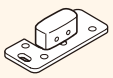
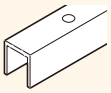


Installation

Details of essential parts and options (door stop (for floor attachment), lower guide L, etc.) (P.742)

Standard Parts List

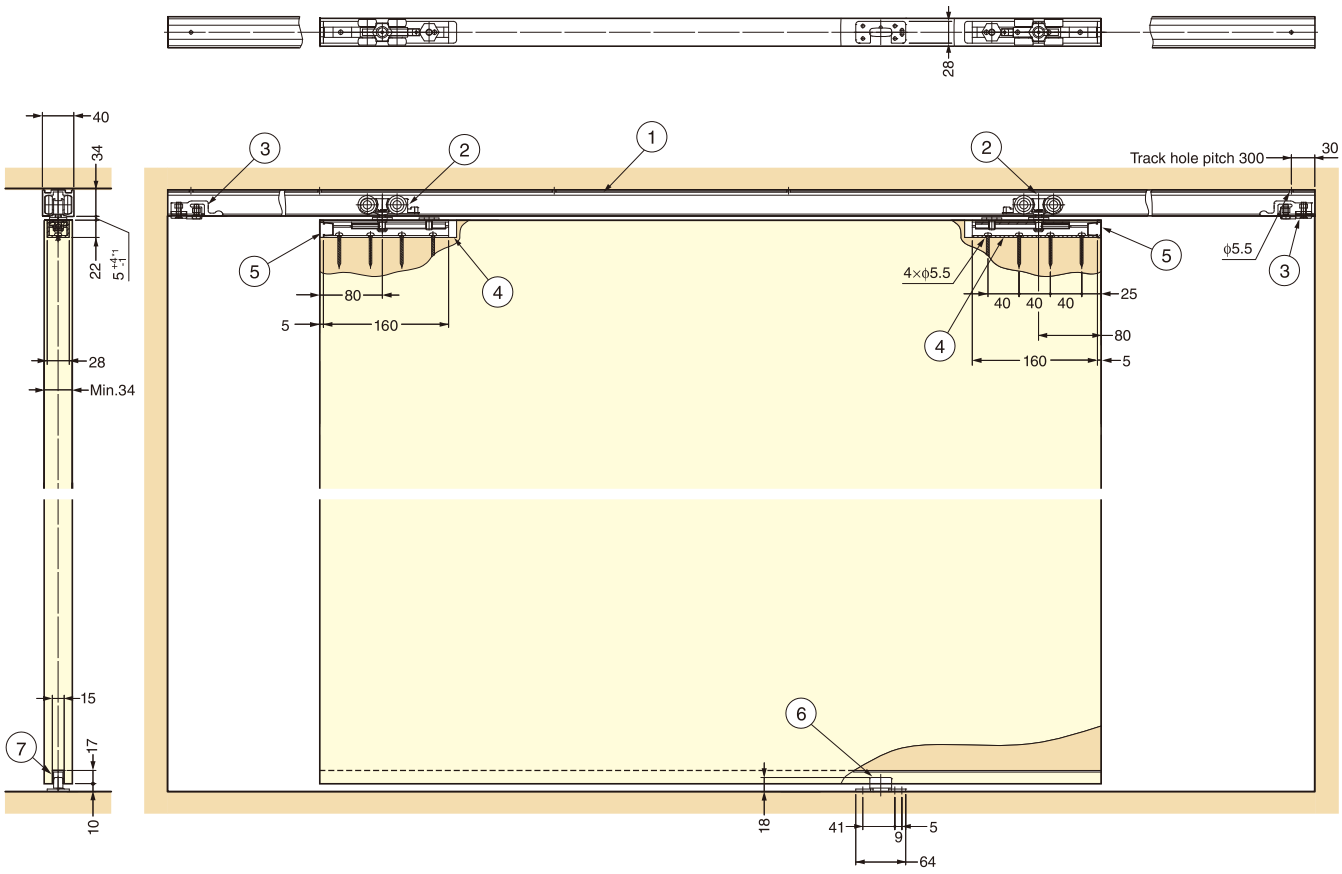
For details of (1) Upper Track, see "Types of Upper Track". (P.733)

Parts	Selection	Required Parts						
	(1) Upper Track	(2) Upper Roller	(3) Upper Stopper	(4) Hanging Bracket	(5) End Cap	(6) Lower Guide S	(7) Embedded Lower Guide Track	(8) Adjusting Spanner
					 The parts set is black. White is also available. (P.742)			
Item Code Item Name		250-022-241 FD80-WRH	250-022-250 FD80-HTST	250-120-608 FD70B-HB160	250-121-142 FD70B-EC-BL	250-020-773 FD50-BG18	250-019-971 FD30-HBRT1500SIL	250-022-252 FD80-HHSP
Single Sliding 	Length 2000 mm ×1 pc	2 pcs	2 pcs	2 pcs	2 pcs	1 pc	1 pc	1 pc
				Parts Set	Item Code: 250-022-254 Item Name: FD80-HHP			
Overlapping Sliding 	Length 2000 mm ×2 pcs	4 pcs	4 pcs	4 pcs	4 pcs	2 pcs	2 pcs	1 pc
				Parts Set	Item Code: 250-024-463 Item Name: FD80-HHP-2			

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

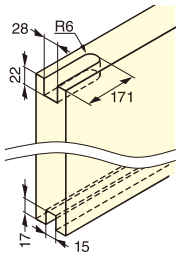
SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Installation Example

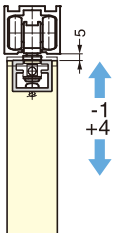


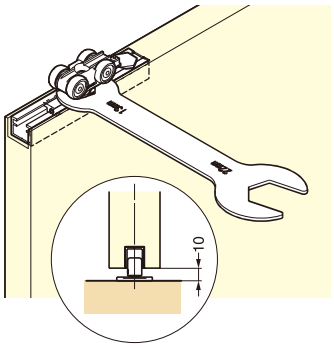
*1 The gap between the upper track and the door can be adjusted within a range of -1 mm to +4 mm.

Cut Out Dimensions



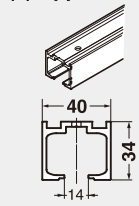
Vertical Adjustment of Door





Rotate the Upper Roller (2) hanger bolts with a nominal 13 adjusting spanner (8) and adjust so that there is 10 mm of clearance between the door and the floor.

Types of Upper Track Included screws: Cross-recessed pan head tapping screws 5 × 40

Specifications	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name	Black Item Code Item Name
(1) Upper Track 	2000 mm	250-022-244 FD80-TRM2000SL	250-022-245 FD80-TRM2000UM	250-048-939 FD80-TRM2000WT	-
	2730 mm	250-022-246 FD80-TRM2730SL	250-022-247 FD80-TRM2730UM	250-048-940 FD80-TRM2730WT	-
	3640 mm	250-022-248 FD80-TRM3640SL	250-022-249 FD80-TRM3640UM	250-048-941 FD80-TRM3640WT	250-048-942 FD80-TRM3640BL

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR FOR HEAVY DOORS FD80 Pocket Door / Two-Way Damper / Recessed Upper Roller PAT

Latest Info

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

- Two-Way Damper sliding door hardware for heavy doors. Split into two sections for easy maintenance after installing.

Features	Door Size (per door)	Adjustment
Two-Way Damper	Min. 34 mm / Max. 2700 mm MAX 80kg 35 kg or more recommended 784 - 1500 mm (Height: < 2500 mm) 850 - 1500 mm (Height: 2501 - 2700 mm)	-1 mm +4 mm

1-Stage
1-Stage

Reliable soft closing from approx. 115 mm

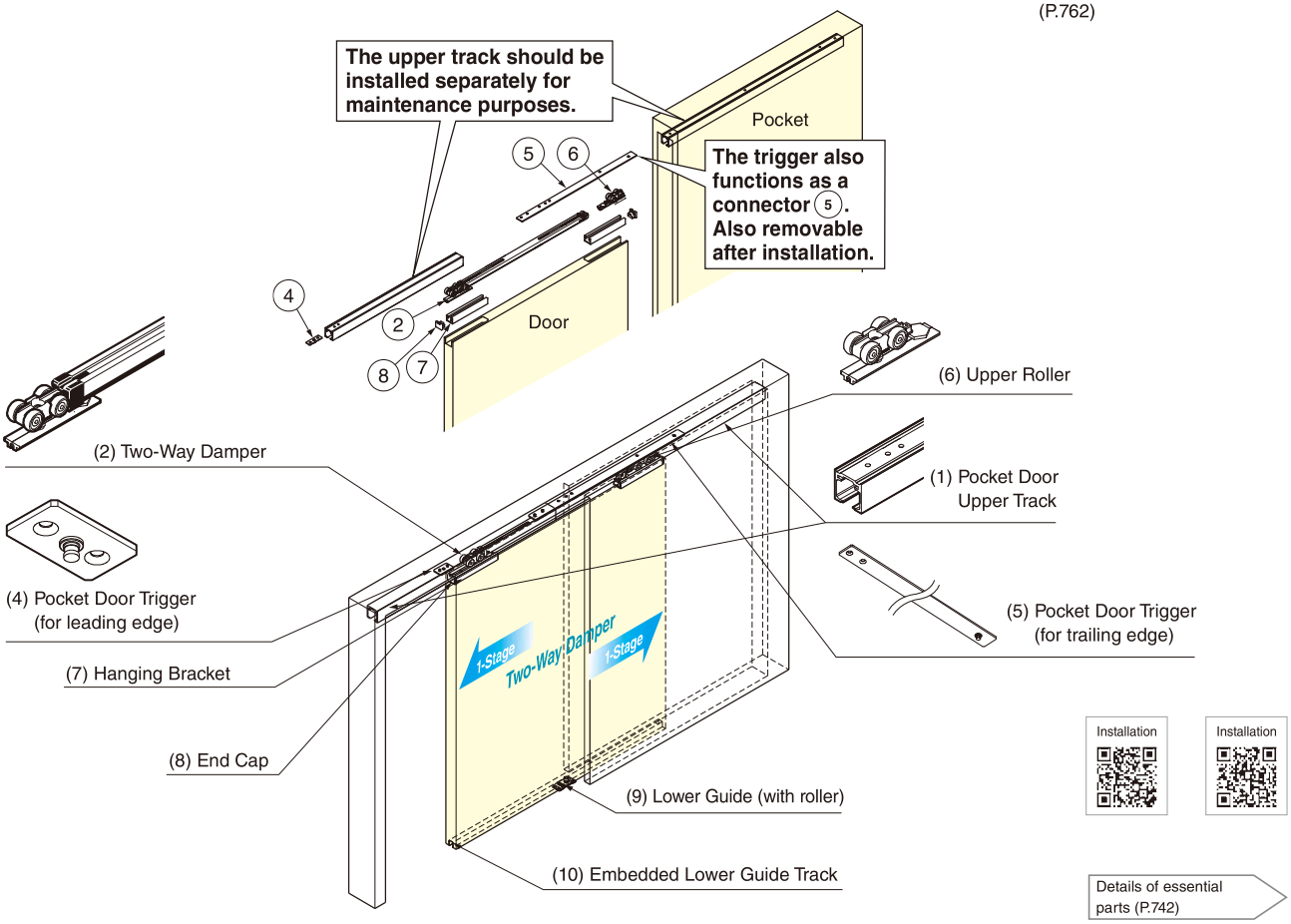
The Two-Way Damper requires less force to open the door.

Slowly retracts the door in both opening and closing directions.

INSTRUCTION SCREW

Remarks

- Be sure to read the Precautions for this product. (P.762)
- Be sure to read the Installation Precautions as well. (P.762)



Installation
Installation

Details of essential parts (P.742)

Standard Parts List

For details of (1) Pocket Door Upper Track, see "Types of Pocket Door Upper Track". (P.735)

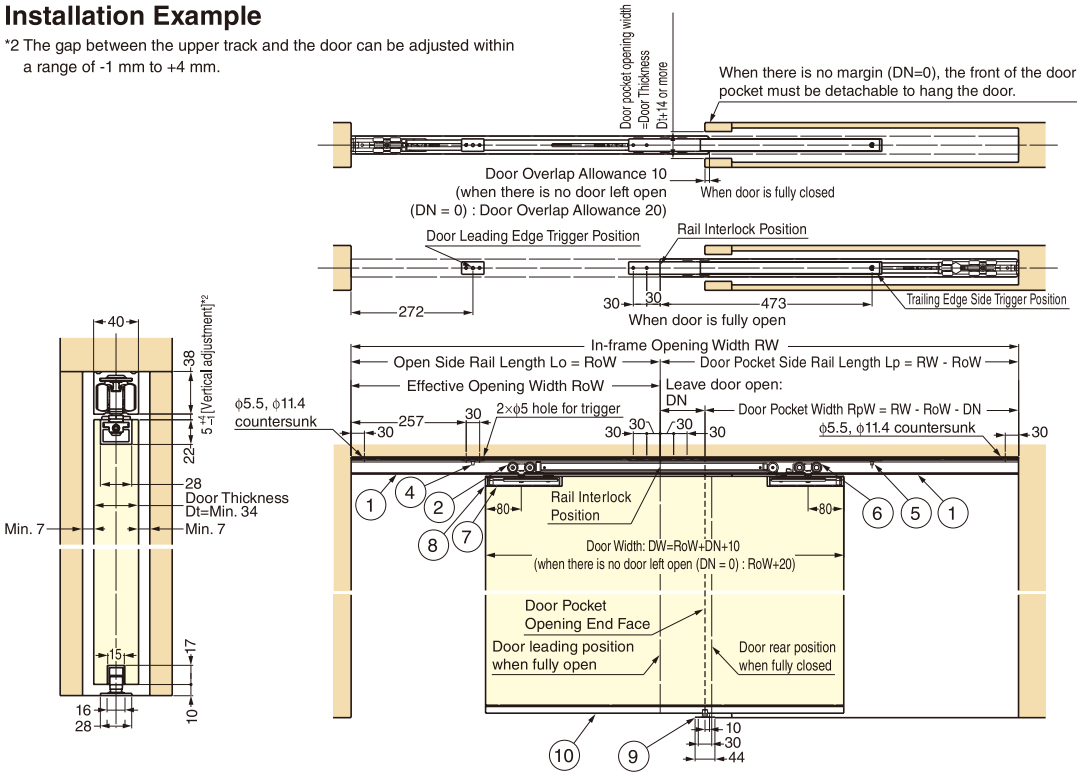
Parts	Selection	Required Parts									
	(1) Pocket Door Upper Track	(2) Two-Way Damper	(3) Trigger Mounting Jig*1	(4) Pocket Door Trigger (for leading edge)	(5) Pocket Door Trigger (for trailing edge)	(6) Upper Roller	(7) Hanging Bracket	(8) End Cap	(9) Lower Guide (with roller)	(10) Embedded Lower Guide Track	(11) Adjusting Spanner
Item Code Item Name		250-022-239 FD80-WRH-DSC	Included with Two-Way Damper	250-029-709 FD80-TRGPF	250-025-460 FD80-TRGPB-HB	250-022-241 FD80-WRH	250-120-608 FD70B-HB160	250-121-142 FD70B-EC-BL The parts set is black. White is also available. (P.742)	250-029-718 FD50-BGR18	250-019-971 FD30-HBRT1500SIL	250-022-252 FD80-HHSP
Pocket Door	Length 2160 mm×1 pc (cut for use)	1 pc	1 pc	1 pc	1 pc	1 pc	2 pcs	2 pcs	1 pc	1 pc	1 pc
		Parts Set Item Code: 250-029-771 Item Name: FD80DHCHP-PD									

*1 Can also be purchased separately. (P.742, P.743)

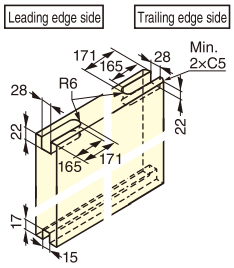
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

*2 The gap between the upper track and the door can be adjusted within a range of -1 mm to +4 mm.

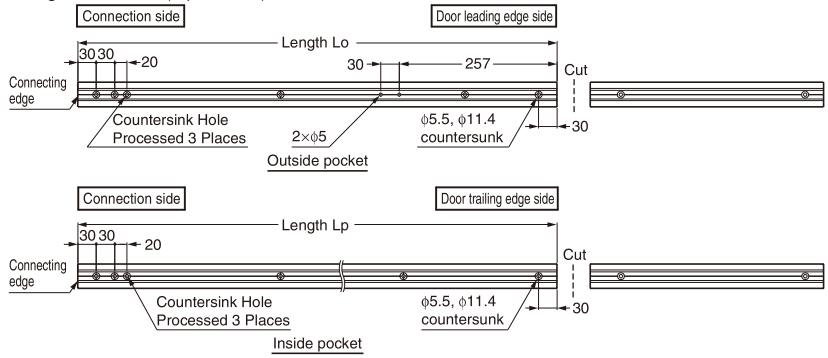


Cut Out Dimensions

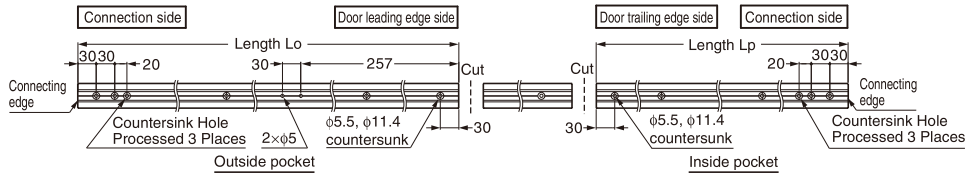


Pocket Door Upper Track Hole Dimensions

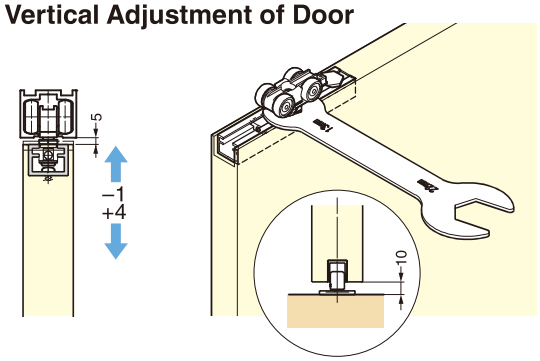
• Length: 1260 mm (2 pcs used)



• Length: 2160/2760/3960 mm (1 pc used)



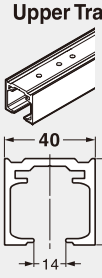
Vertical Adjustment of Door



Rotate the required parts' (2) (6) hanger bolts with a nominal 13 adjusting spanner (11) and adjust so that there is 10 mm of clearance between the door and the floor. (P.742)

Types of Pocket Door Upper Track

Included screws: Cross-recessed flat head tapping screws 5 x 40

Specifications	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Pocket Door Upper Track 	1260 mm	250-029-692 FD80-TRP1260-SL	250-029-696 FD80-TRP1260-UM	250-029-700 FD80-TRP1260-WT
	2160 mm	250-029-693 FD80-TRP2160-SL	250-029-697 FD80-TRP2160-UM	250-029-701 FD80-TRP2160-WT
	2760 mm	250-029-694 FD80-TRP2760-SL	250-029-698 FD80-TRP2760-UM	250-029-702 FD80-TRP2760-WT
	3960 mm	250-029-695 FD80-TRP3960-SL	250-029-699 FD80-TRP3960-UM	250-029-703 FD80-TRP3960-WT

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR FOR HEAVY DOORS FD80 Two-Way Damper / Surface Mounted Roller PAT

Latest Info

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LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

- Two-way Damper for heavy doors, featuring a surface mounted upper roller that allows the door to open and close slowly and quietly.

Passed Private 200K Cycle Test

Features	Door Size (per door)	Adjustment
Two-Way Damper	Min. 30 mm / Max. 2700 mm MAX 80kg 35 kg or more recommended 784 - 1500 mm (Height: < 2500 mm) 850 - 1500 mm (Height: 2501 - 2700 mm)	±4 mm

1-Stage
1-Stage

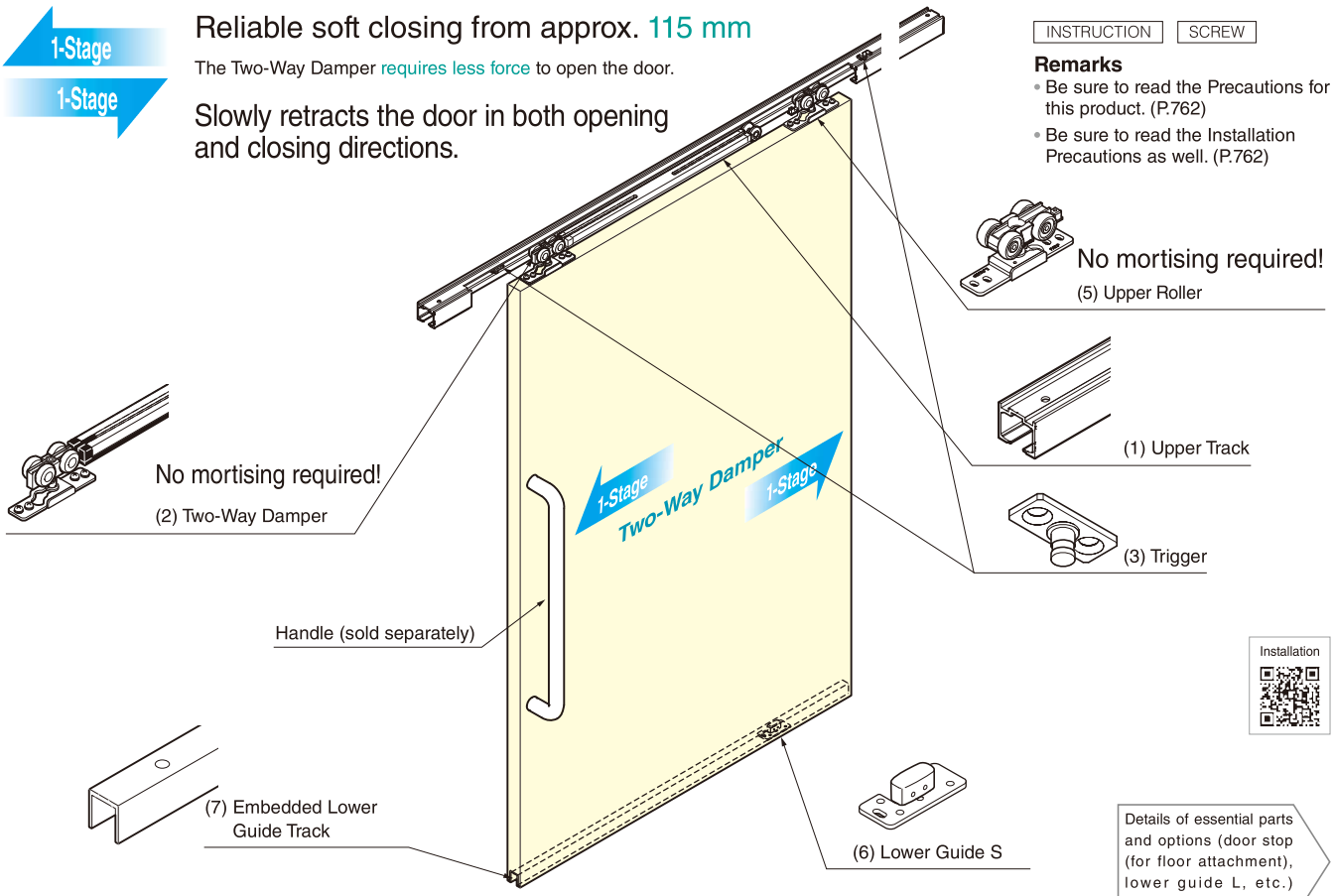
Reliable soft closing from approx. 115 mm

The Two-Way Damper requires less force to open the door.

Slowly retracts the door in both opening and closing directions.

INSTRUCTION SCREW

Remarks
- Be sure to read the Precautions for this product. (P.762)
- Be sure to read the Installation Precautions as well. (P.762)



Installation

Details of essential parts and options (door stop (for floor attachment), lower guide L, etc.) (P.742)

Standard Parts List

For details of (1) Upper Track, see "Types of Upper Track". (P.737)

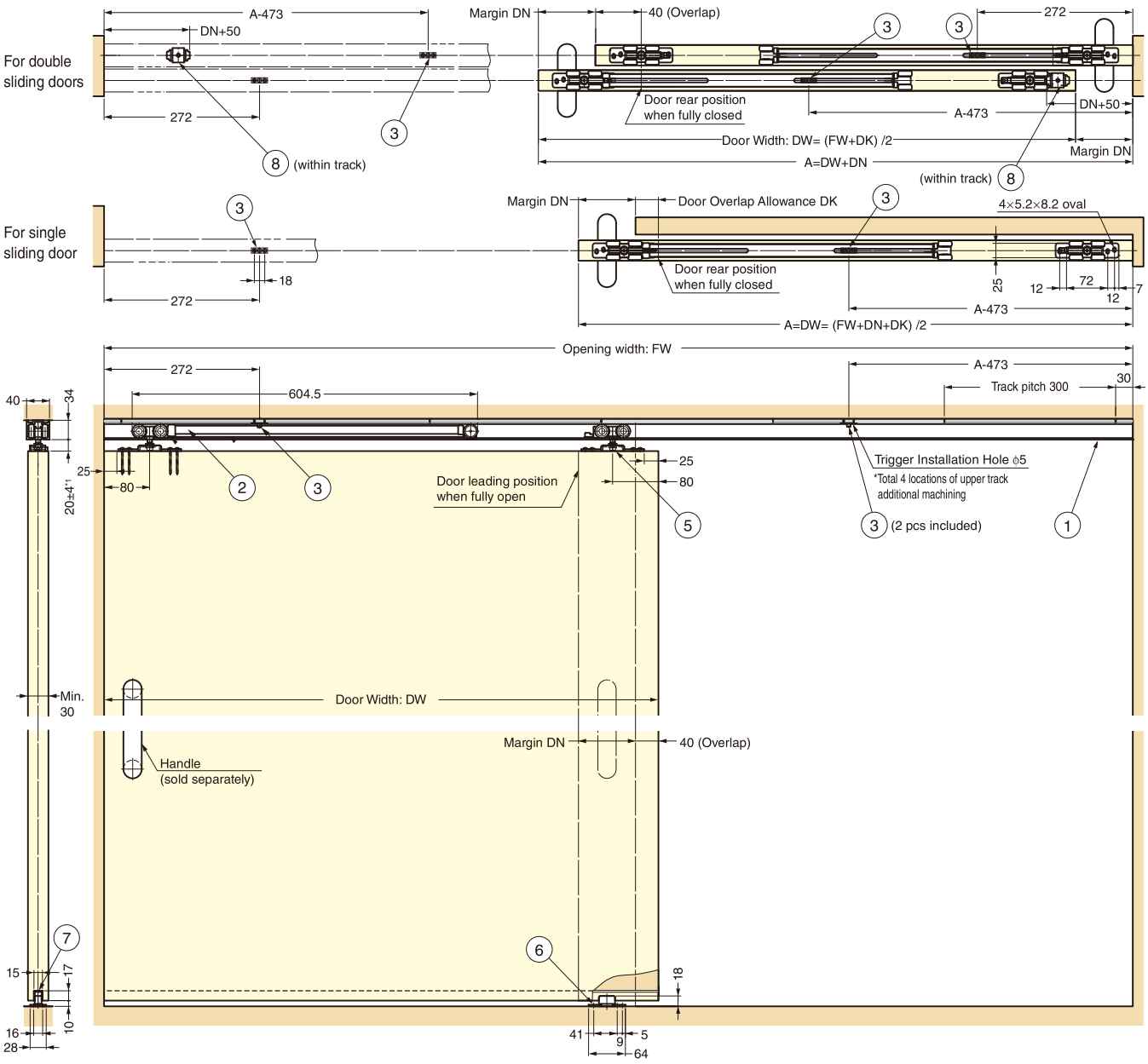
Parts	Selection	Required Parts						Required Parts
	(1) Upper Track	(2) Two-Way Damper (surface mount)	(3) Trigger*1	(4) Trigger Mounting Jig*1	(5) Upper Roller	(6) Lower Guide S	(7) Embedded Lower Guide Track	(8) Stopper Block
Item Code / Item Name		250-022-240 FD80-WRM-DSC	Included with Two-Way Damper	Included with Two-Way Damper	250-022-242 FD80-WRM	250-020-773 FD50-BG18	250-019-971 FD30-HBRT1500SIL	250-022-251 FD80-HSB
Single Sliding	Length 2000 mm ×1 pc	1 pc	2 pcs	1 pc	1 pc	1 pc	1 pc	–
Overlapping Sliding	Length 2000 mm ×2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs*2
Opposite Opening Sliding	Length 2000 mm ×2 pcs	2 pcs	4 pcs	2 pcs	2 pcs	2 pcs	2 pcs	2 pcs

Parts Set — Item Code: 250-022-255 — Item Name: FD80DHCMP — ×2

*1 Can also be purchased separately. (P.742, P.743) *2 Required when using handles on sliding doors.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

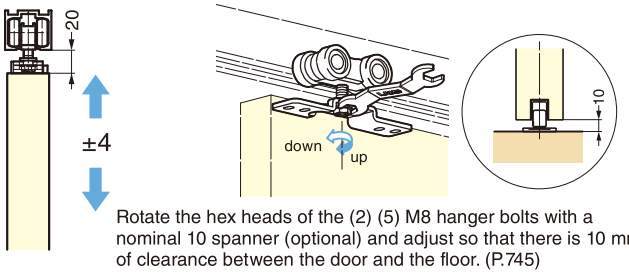
Installation Example



*1 The door position can be adjusted vertically within a range of -4 mm to +4 mm.

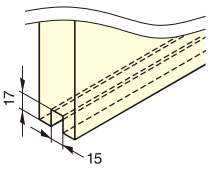
Also see the instructions on calculating the trigger mounting position. (P.766)

Vertical Adjustment of Door



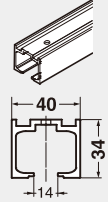
Rotate the hex heads of the (2) (5) M8 hanger bolts with a nominal 10 spanner (optional) and adjust so that there is 10 mm of clearance between the door and the floor. (P.745)

Cut Out Dimensions



Types of Upper Track

Included screws: Cross-recessed pan head tapping screws 5 × 40

Specifications	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name	Black Item Code Item Name
(1) Upper Track 	2000 mm	250-022-244 FD80-TRM2000SL	250-022-245 FD80-TRM2000UM	250-048-939 FD80-TRM2000WT	-
	2730 mm	250-022-246 FD80-TRM2730SL	250-022-247 FD80-TRM2730UM	250-048-940 FD80-TRM2730WT	-
	3640 mm	250-022-248 FD80-TRM3640SL	250-022-249 FD80-TRM3640UM	250-048-941 FD80-TRM3640WT	250-048-942 FD80-TRM3640BL

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

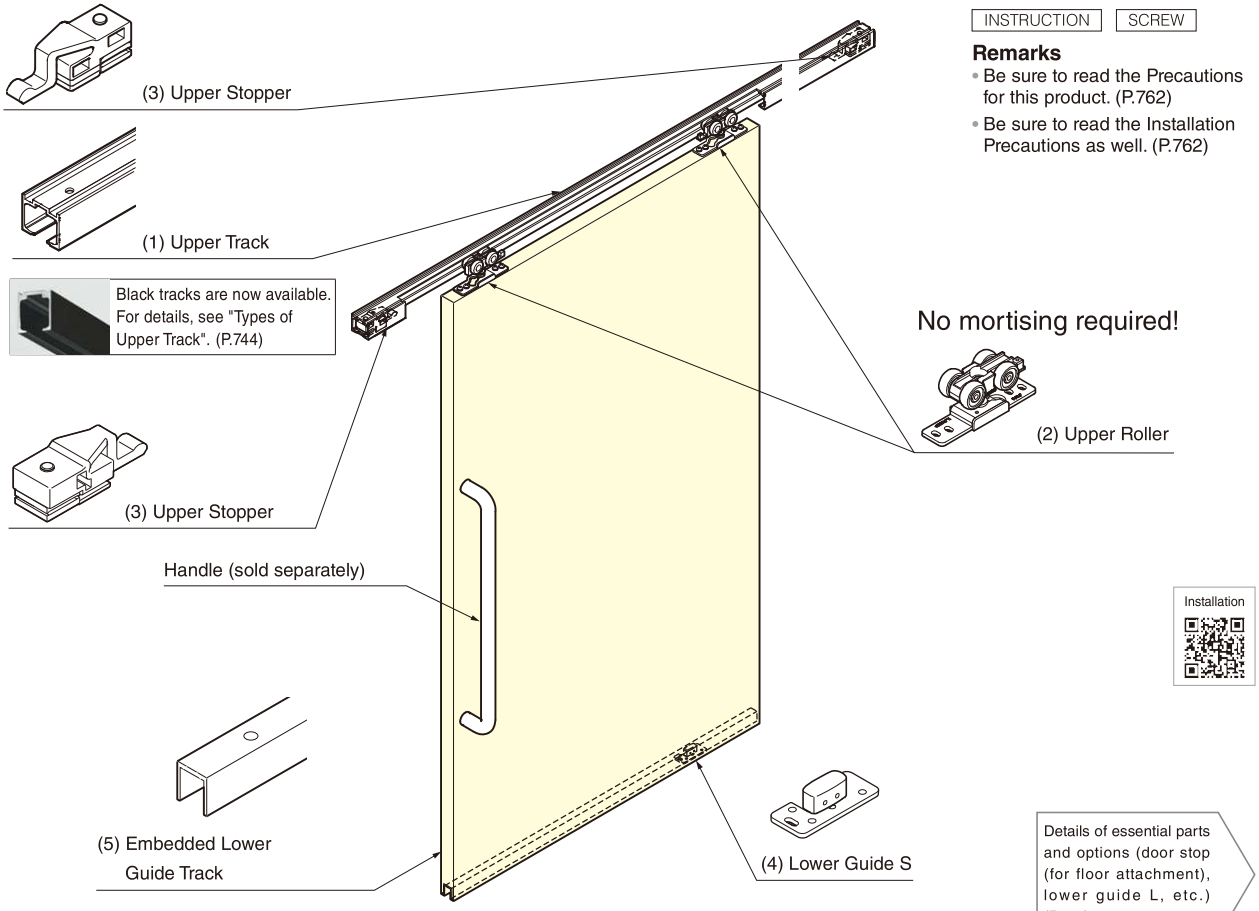
LAMP TOP MOUNTED SLIDING DOOR FOR HEAVY DOORS FD80 Surface Mounted Roller

Latest Info

- Sliding door hardware for heavy doors that allows for the top of the door to be mounted without the need of mortising.

Passed Private 200K Cycle Test

Features	Door Size (per door)	Adjustment
–	Min. 30 mm / Max. 2700 mm / Max.1500 mm MAX 80kg Max.1500 mm (Height: <2500 mm) 850 - 1500 mm (Height: 2501 - 2700 mm)	±4 mm



INSTRUCTION SCREW

Remarks
- Be sure to read the Precautions for this product. (P.762)
- Be sure to read the Installation Precautions as well. (P.762)

Installation

Details of essential parts and options (door stop (for floor attachment), lower guide L, etc.) (P.742)

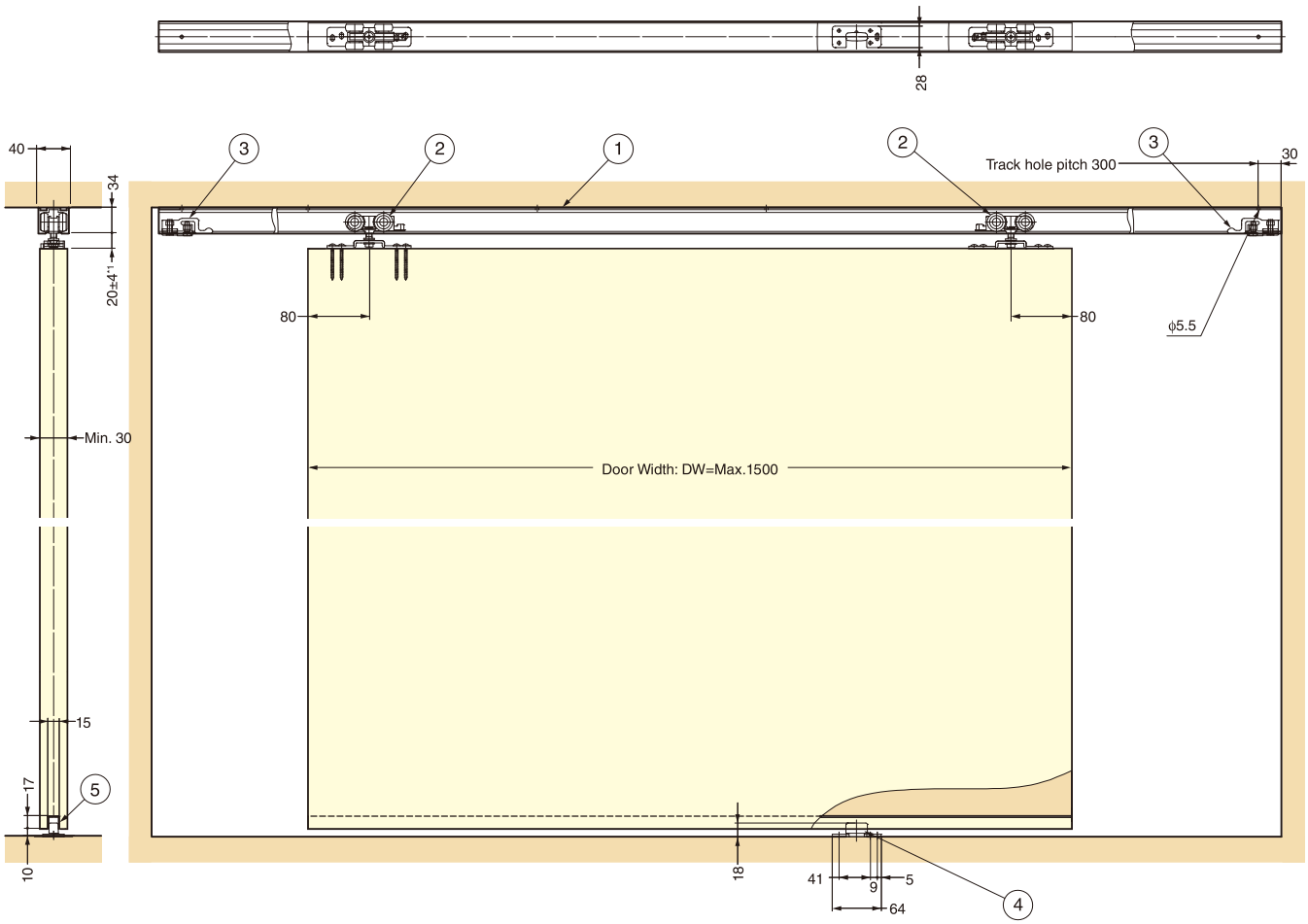
Standard Parts List

For details of (1) Upper Track, see "Types of Upper Track". (P.739)

Parts	Selection	Required Parts			
	(1) Upper Track	(2) Upper Roller	(3) Upper Stopper	(4) Lower Guide S	(5) Embedded Lower Guide Track
Item Code / Item Name		250-022-242 FD80-WRM	250-022-250 FD80-HTST	250-020-773 FD50-BG18	250-019-971 FD30-HBRT1500SIL
Single Sliding	Length 2000 mm ×1 pc	2 pcs	2 pcs	1 pc	1 pc
			Parts Set	Item Code: 250-022-256 Item Name: FD80-HMP	
Overlapping Sliding	Length 2000 mm ×2 pcs	4 pcs	4 pcs	2 pcs	2 pcs
			Parts Set	Item Code: 250-022-256 Item Name: FD80-HMP ×2	

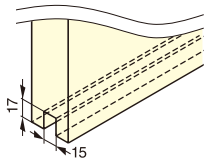
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

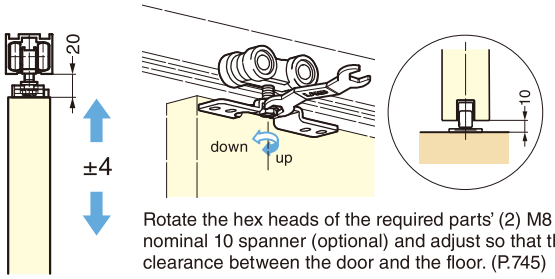


*1 The door position can be adjusted vertically within a range of -4 mm to +4 mm.

Cut Out Dimensions



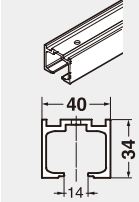
Vertical Adjustment of Door



Rotate the hex heads of the required parts' (2) M8 hanger bolts with a nominal 10 spanner (optional) and adjust so that there is 10 mm of clearance between the door and the floor. (P.745)

Types of Upper Track

Included screws: Cross-recessed pan head tapping screws 5 × 40

Specifications	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name	Black Item Code Item Name
(1) Upper Track 	2000 mm	250-022-244 FD80-TRM2000SL	250-022-245 FD80-TRM2000UM	250-048-939 FD80-TRM2000WT	-
	2730 mm	250-022-246 FD80-TRM2730SL	250-022-247 FD80-TRM2730UM	250-048-940 FD80-TRM2730WT	-
	3640 mm	250-022-248 FD80-TRM3640SL	250-022-249 FD80-TRM3640UM	250-048-941 FD80-TRM3640WT	250-048-942 FD80-TRM3640BL

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP TOP MOUNTED SLIDING DOOR FOR HEAVY DOORS FD80 Pocket Door / Two-Way Damper / Surface Mounted Roller PAT

Latest Info

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

- Two-Way Damper sliding door hardware for heavy doors. Split into two sections for easy maintenance after installing.

Features	Door Size (per door)	Adjustment
Two-Way Damper	Min. 30 mm / Max. 2700 mm MAX 80kg 35 kg or more recommended 784 - 1500 mm (Height: <2500 mm) 850 - 1500 mm (Height: 2501 - 2700 mm)	−4 mm +4 mm

1-Stage
1-Stage

Reliable soft closing from approx. 115 mm

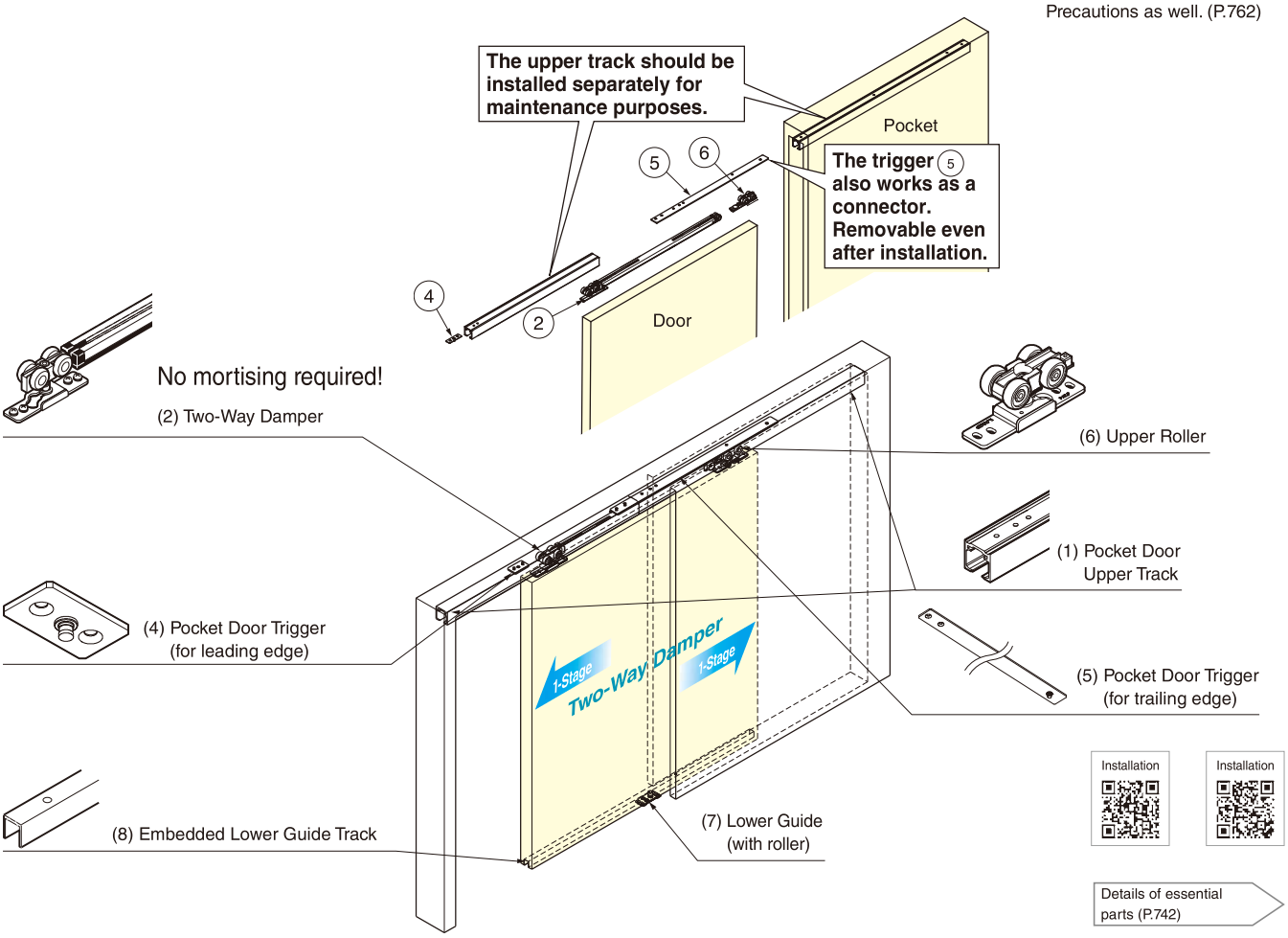
The Two-Way Damper requires less force to open the door.

Slowly retracts the door in both opening and closing directions.

INSTRUCTION SCREW

Remarks

- Be sure to read the Precautions for this product. (P.762)
- Be sure to read the Installation Precautions as well. (P.762)



Installation
Installation

Details of essential parts (P.742)

Standard Parts List

For details of (1) Pocket Door Upper Track, see "Types of Pocket Door Upper Track". (P.741)

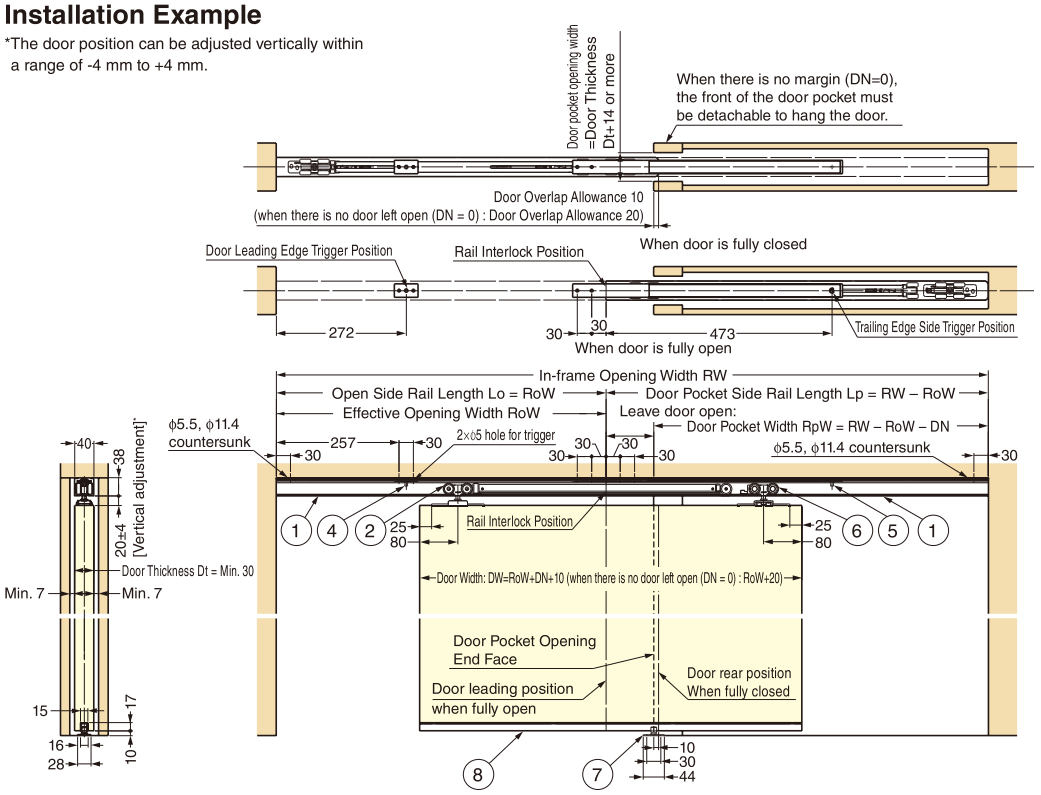
	Selection	Required Parts						
Parts	(1) Pocket Door Upper Track	(2) Two-Way Damper (surface mount)	(3) Trigger Mounting Jig*1	(4) Pocket Door Trigger (for leading edge)	(5) Pocket Door Trigger (for trailing edge)	(6) Upper Roller	(7) Lower Guide (with roller)	(8) Embedded Lower Guide Track
Item Code Item Name		250-022-240 FD80-WRM-DSC	Included with Two-Way Damper	250-029-709 FD80-TRGPF	250-029-708 FD80-TRGPB-MB	250-022-242 FD80-WRM	250-029-718 FD50-BGR18	250-019-971 FD30-HBRT1500SIL
Pocket Door	Length 2160 mm×1 pc (cut for use)	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc
		Parts Set			Item Code: 250-029-722 Item Name: FD80DHCMP-PD			

*1 Can also be purchased separately. (P.742, P.743)

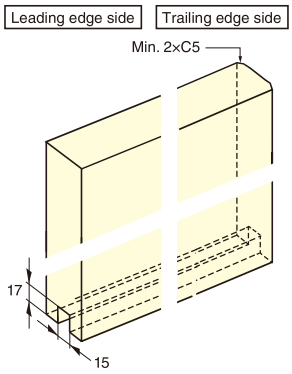
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Installation Example

*The door position can be adjusted vertically within a range of -4 mm to +4 mm.

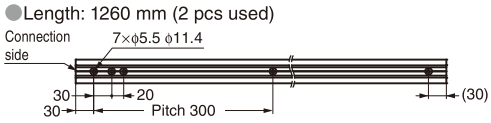


Cut Out Dimensions

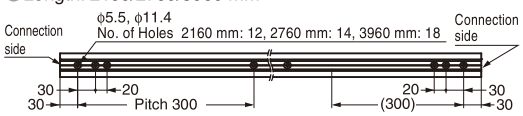


Upper Track Dimensions

●Length: 1260 mm (2 pcs used)

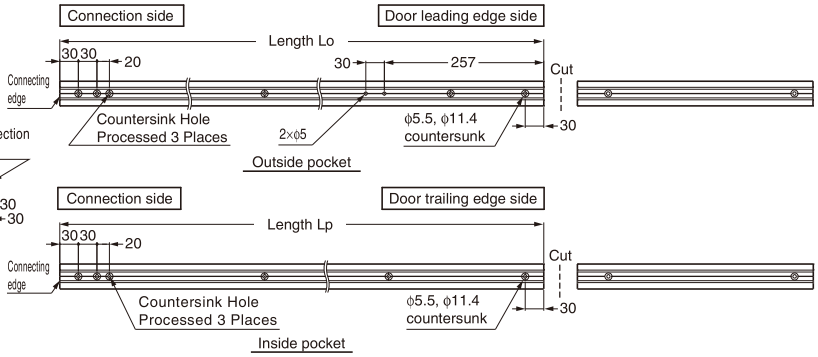


●Length: 2160/2760/3960 mm

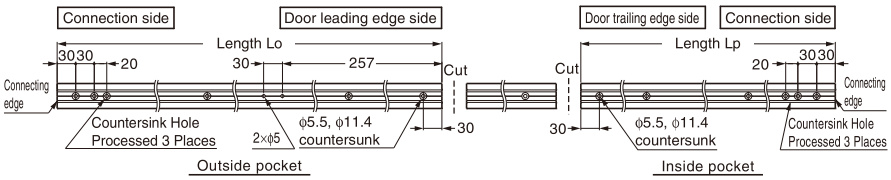


Pocket Door Upper Track Hole Dimensions

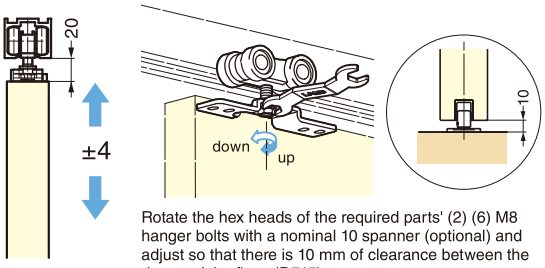
●Length: 1260 mm (2 pcs used)



●Length: 2160/2760/3960 mm (1 pc used)



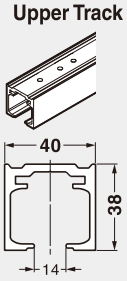
Vertical Adjustment of Door



Rotate the hex heads of the required parts' (2) (6) M8 hanger bolts with a nominal 10 spanner (optional) and adjust so that there is 10 mm of clearance between the door and the floor. (P.745)

Types of Pocket Door Upper Track

Included screws: Cross-recessed flat head tapping screws 5 x 40

Specifications	Length	Silver Item Code Item Name	Amber Item Code Item Name	White Item Code Item Name
(1) Pocket Door Upper Track 	1260 mm	250-029-692 FD80-TRP1260-SL	250-029-696 FD80-TRP1260-UM	250-029-700 FD80-TRP1260-WT
	2160 mm	250-029-693 FD80-TRP2160-SL	250-029-697 FD80-TRP2160-UM	250-029-701 FD80-TRP2160-WT
	2760 mm	250-029-694 FD80-TRP2760-SL	250-029-698 FD80-TRP2760-UM	250-029-702 FD80-TRP2760-WT
	3960 mm	250-029-695 FD80-TRP3960-SL	250-029-699 FD80-TRP3960-UM	250-029-703 FD80-TRP3960-WT

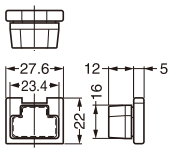
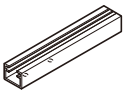
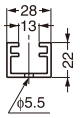
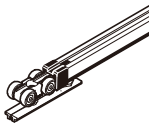
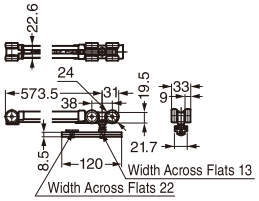
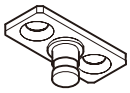
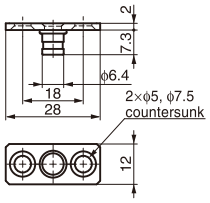
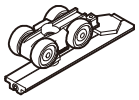
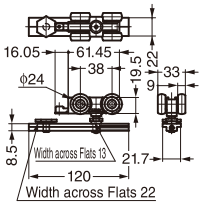
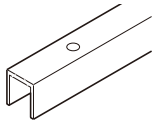
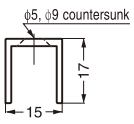
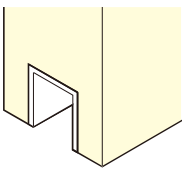
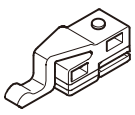
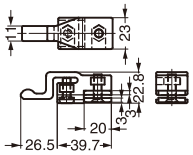
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

PARTS TABLE

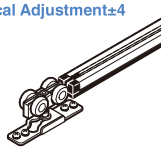
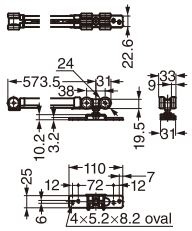
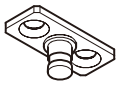
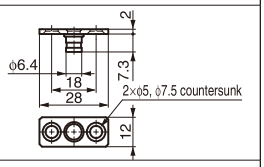
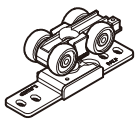
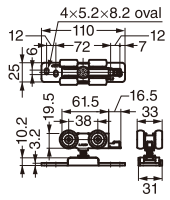
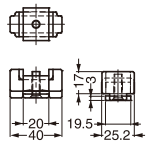
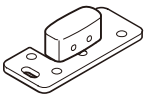
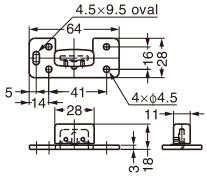
FD80 (P.730-P.741)

for recessed mount

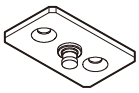
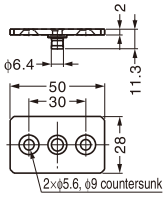
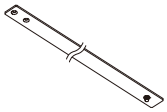
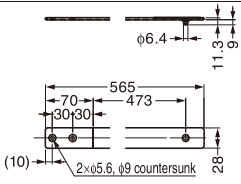
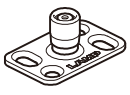
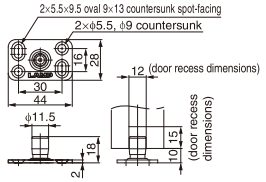
Name	Dimensions / Mounting Example	Specifications		Item Code / Item Name
End Cap	 	**End cap covers the end of the Hanging Bracket.** • Material: Elastomer (TPE) • Colour: Black, White	Black	**250-121-142** **FD70B-EC-BL**
			White	**250-024-897** **FD70B-EC-WT**
Hanging Bracket (160 mm)	 	**Hanging bracket for mounting the recessed Two-Way Damper and the upper roller.** • Material: Aluminium Alloy • Finish: Silver Anodized Included screws: Cross-recessed panhead tapping screws 5×40, 4 pcs		**250-120-608** **FD70B-HB160**
Two-Way Damper **PAT** Vertical Adjustment–1, +4	 	**Two-Way Damper for heavy doors in which the door slowly and safely opens and closes on both the leading edge and trailing edge sides. Recessed type enabling vertical adjustment of door.** • Main material: Steel/Polyacetal (POM) • Finish: Nickel Plating/Black		**250-022-239** **FD80-WRH-DSC**
Trigger ***1 Included with Two-Way Damper, and also available for individual purchase.**	 	**Trigger for operating Two-Way Damper. 2 pcs included with Two-Way Damper (for recessed type).** • Material: Steel • Finish: Coloured Chromate (Trivalent) Included screws: Cross-recessed countersunk tapping screws 4×30 (size: 6), 4 pcs		**250-037-730** **FD80-TRG*1**
Trigger Mounting Jig for FD80	 ***1 Included with Two-Way Damper and also available for individual purchase.** – **Read the precautions for installation for information on using this product. (P.763)**	**Jig set to mount the FD80 Trigger on the track. 1 pc included with Two-Way Damper (for recessed type).** • Material: Polyacetal (POM) • Colour: Green		**250-036-530** **FD80-TRJ*1**
Upper Roller Vertical Adjustment–1, +4	 	**Recessed type enabling vertical adjustment of door.** • Material: Zinc Alloy/Polyacetal (POM) • Finish: Nickel Plating • Colour: Natural		**250-022-241** **FD80-WRH**
Adjusting Spanner	 –	**Tool for mounting the recessed Two-Way Damper and Upper Roller on the hanging bracket** • Material: Steel • Finish: Chromate		**250-022-252** **FD80-HHSP**
Embedded Lower Guide Track **This can be used for other FD series models.**	  	**Recessed track** • Material: Aluminium Alloy • Finish: Silver Anodized + Coating/ Clear	Length 1500 mm	**250-019-971** **FD30-HBRT1500SIL**
Upper Stopper	 	**Upper stopper temporarily holds door when closed** • Material: Steel/Polyacetal (POM) • Finish: Clear Zinc Chromate/Natural		**250-022-250** **FD80-HTST**

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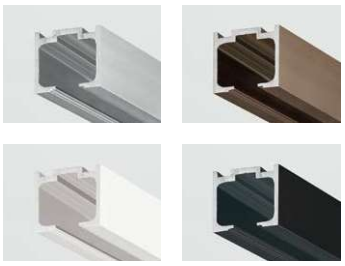
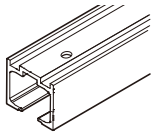
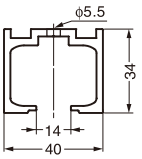
PARTS TABLE

Compatible Products	Name	Dimensions	Specifications	Item Code / Item Name
FD80 (P.730~P.741)	**Two-Way Damper (surface mount)** PAT Vertical Adjustment±4 		**Two-Way Damper for heavy doors in which the door slowly and safely opens and closes on both the leading edge and trailing edge sides. Surface mount type enabling vertical adjustment of door.** • Main material: Steel/Polyacetal (POM) • Finish: Coloured chromate/Black Included screws: Cross-recessed countersunk tapping screws 4 × 45, 4 pcs	**250-022-240** **FD80-WRM-DSC**
for surface mount	**Trigger** *1 Included with Two-Way Damper, and also available for individual purchase. 		**Trigger for operating Two-Way Damper.** **2 pcs included with Two-Way Damper (for surface mount).** • Material: Steel • Finish: Coloured Chromate (Trivalent) Included screws: Cross-recessed countersunk tapping screws 4 × 30, 4 pcs	**250-037-730** **FD80-TRG***1
	Trigger Mounting Jig for FD80  *1 Included with Two-Way Damper and also available for individual purchase. –		**Jig set to mount the FD80 Trigger on the track.** **1 pc included with Two-Way Damper (for surface mount).** • Material: Polyacetal (POM) • Colour: Green	**250-036-530** **FD80-TRJ***1
	Upper Roller Vertical Adjustment±4 		**Surface mount type enabling vertical adjustment of door.** • Material: Zinc Alloy/Polyacetal (POM) • Finish: Nickel/Natural Included screws: Cross-recessed countersunk tapping screws 4 × 45, 4 pcs	**250-022-242** **FD80-WRM**
	Stopper Block 		**Door stopper mounts on upper track.** **This stopper stops the upper roller at a suitable position and prevents the door from coming off the lower guide.** • Material: Steel/Ethylene Propylene Rubber (EPDM) • Finish: Chromate/Black	**250-022-251** **FD80-HSB**
	Lower Guide S 		**Rigid lower guide made of stainless steel** • Material: Stainless Steel (SUS304) /Polyacetal (POM) • Finish: Plain/Natural Included screws: Cross-recessed binding head tapping screws 4 × 16, 5 pcs	**250-020-773** **FD50-BG18**

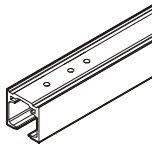
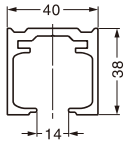
POCKET DOOR PARTS

Compatible Products	Name	Dimensions	Specifications		Item Code / Item Name
FD80 (P.734, P.735, P.740, P.741)	**Pocket Door Trigger (for door leading edge)** 		**Intended for use with pocket doors.** **Trigger for leading edge.** • Material: Steel • Finish: Coloured Chromate (Trivalent) Included screw: Cross-recessed flathead tapping screws 4 × 40, 2 pcs		**250-029-709** **FD80-TRGPF**
	Pocket Trigger (for door trailing edge) 		**Intended for use with pocket doors.** **Trigger for trailing edge.** • Material: Steel • Finish: Black Chromate (Trivalent) Included screws: Cross-recessed flathead tapping screws 4 × 40, 2 pcs	surface mount	**250-029-708** **FD80-TRGPB-MB**
				recessed mount	**250-025-460** **FD80-TRGPB-HB**
	Lower Guide (with roller) 		**Roller shaft type lower guide for pocket doors.** • Material: Stainless Steel (SUS304) /Polyacetal (POM) • Finish: Barrel polished/Natural Included screws: Cross-recessed binding head tapping screws 4 × 20		**250-029-718** **FD50-BGR18**

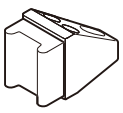
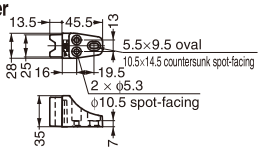
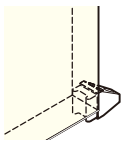
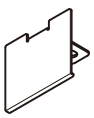
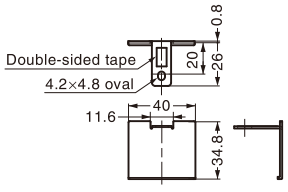
UPPER TRACK

Compatible Products		Specifications			Item Code / Item Name
FD80 (P.730 - P.733 · P.736 - P.739)	**Upper Track (surface mount)**   Hole Pitch: Approx. 300 mm Pitch End: Approx. 30 mm 	• Material: Aluminium Alloy • Finish: Silver Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 5×40	Silver	Length 2000 mm	250-022-244 FD80-TRM2000SL
				Length 2730 mm	250-022-246 FD80-TRM2730SL
				Length 3640 mm	250-022-248 FD80-TRM3640SL
		• Material: Aluminium Alloy • Finish: Amber Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 5×40 (Copper Antique Plating)	Amber	Length 2000 mm	250-022-245 FD80-TRM2000UM
				Length 2730 mm	250-022-247 FD80-TRM2730UM
				Length 3640 mm	250-022-249 FD80-TRM3640UM
		• Material: Aluminium Alloy • Finish: Silver Anodized + Coating/White Included screws: Cross-recessed flathead tapping screws 5×40 (Countersunk Head: Coating/White)	White	Length 2000 mm	250-048-939 FD80-TRM2000WT
				Length 2730 mm	250-048-940 FD80-TRM2730WT
				Length 3640 mm	250-048-941 FD80-TRM3640WT
		• Material: Aluminium Alloy • Finish: Black Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 5×40 (Countersunk Head: Black Chromate (Trivalent))	Black	Length 3640 mm	250-048-942 FD80-TRM3640BL

POCKET DOOR UPPER TRACK

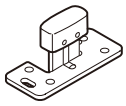
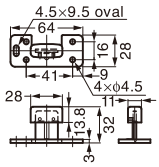
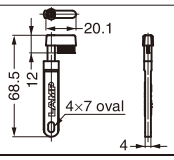
Compatible Products		Specifications			Item Code / Item Name
FD80 (P.734, P.735, P.740, P.741)	**Pocket Door Upper Track (surface mount)**   	• Material: Aluminium Alloy • Finish: Silver Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 5×40	Silver	Length 1260 mm	250-029-692 FD80-TRP1260-SL
				Length 2160 mm	250-029-693 FD80-TRP2160-SL
				Length 2760 mm	250-029-694 FD80-TRP2760-SL
				Length 3960 mm	250-029-695 FD80-TRP3960-SL
		• Material: Aluminium Alloy • Finish: Amber Anodized + Coating/Clear Included screws: Cross-recessed flathead tapping screws 5×40 (Copper Antique Plating)	Amber	Length 1260 mm	250-029-696 FD80-TRP1260-UM
				Length 2160 mm	250-029-697 FD80-TRP2160-UM
				Length 2760 mm	250-029-698 FD80-TRP2760-UM
				Length 3960 mm	250-029-699 FD80-TRP3960-UM
		• Material: Aluminium Alloy • Finish: Anodized + Coating/White Included screws: Cross-recessed flathead tapping screws 5×40 (Countersunk Head: Coating/White)	White	Length 1260 mm	250-029-700 FD80-TRP1260-WT
				Length 2160 mm	250-029-701 FD80-TRP2160-WT
				Length 2760 mm	250-029-702 FD80-TRP2760-WT
				Length 3960 mm	250-029-703 FD80-TRP3960-WT

OPTIONS

Compatible Products	Name / Dimensions / Mounting Example	Specifications		Item Code / Item Name
FD80 (P.730 - P.741)	**Floor-mount Door Stopper**   	**Floor-mounted door stopper designed for sliding doors that do not contact the side jamb on either the leading or trailing edges.** • Material: Zinc Alloy/Rubber • Finish: Silver Coating/Black Included screws: Cross-recessed binding head tapping screws 4 × 30, 3 pcs		250-018-497 FD30-HTKY
	End Plate for Upper Track  	**Cover to conceal the end of the FD80 Upper Track.** **Caution:Cannot be used on Pocket Door Upper Track due to the difference in cross-sectional dimensions.** • Material: Steel (SECC) • Finish: Baked Acrylic Finish Included screws: Cross-recessed panhead tapping screws 4×20, 1 pc	Silver	250-041-237 FD80-TREP-SL
			Amber	250-041-238 FD80-TREP-UM
			White	250-048-943 FD80-TREP-WT
			Black	250-048-944 FD80-TREP-BL

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

OPTIONS

Compatible Products	Name	Dimensions	Mounting Example	Specifications	Item Code Item Name
FD80 (P.730 - P.741)	**Lower Guide L**			**Rigid lower guide.** **Use when space under the door is required.** • Material: Stainless Steel (SUS304) / Polyacetal (POM) • Finish: Plain/Natural Included screws: Cross-recessed binding head tapping screws 4 × 16, 5 pcs	**250-020-774** FD50-BG32
	Spanner (for Soft Close)		–	**Use to tighten the hex heads of the hanger bolts in the Upper Roller and Two-Way Damper.** • Material: Steel • Finish: Coloured Chromate (Trivalent)	**250-017-168** FD30-FSP
	Cleaner for Upper Track			**Brush for cleaning debris from the FD80 Upper Track (above), such as shavings left over after cutting** • Material: Polypropylene (PP) /Polyamide (PA) • Colour: Yellow	**250-025-993** FD50-TRC

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

LAMP FD80-AFH Aluminium Frame Sliding Doors for Heavy Weights PAT.P NEW



Black



Silver

Image shows upper roller embedded specification. Side frame is the standard type.

Aluminium frame sliding door hardware enabling the use of Two-Way Damper for 80 kg doors

- Two-Way Damper type is supported, offering slow and quiet opening and closing in both directions.
- Thick and unlikely to warp, the aluminium frame supports large doors up to 80 kg.
- The aluminium frame uses a slanted edge design to prevent the accumulation of dust.
- Black frames are now available.
- White upper tracks are now available.
- Side frames (slim) are now available.

INSTRUCTION

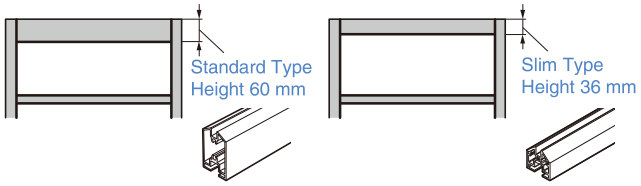
Application
- Partitioning, storage, etc. in single-family houses and apartments

Description
- The material on the aluminium frame interior supports reinforced glass, laminated glass, resin, etc.
- Glass Thickness: 5, 6 mm
- Door Weight: Max. 80 kg
- Height Adjustment: 1 mm upward, 4 mm downward

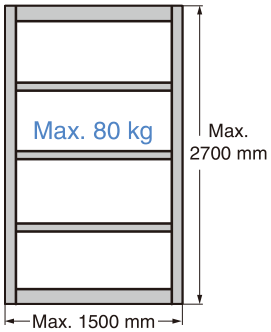
Others
- Opening doors using the same aluminium frame are also available. (P.560)

Caution
- See the pages for each specification.

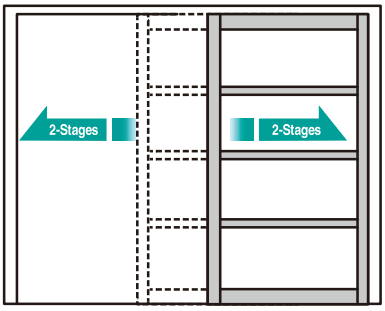
Select side frame design



Supports large doors

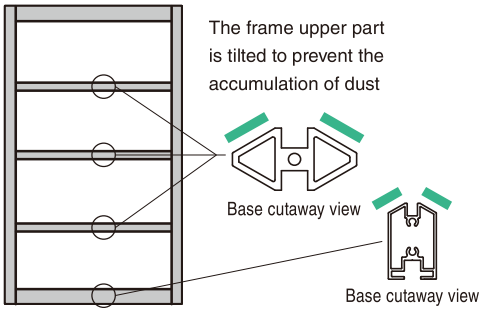


Two-Way Damper also available



Opens and closes slowly and quietly

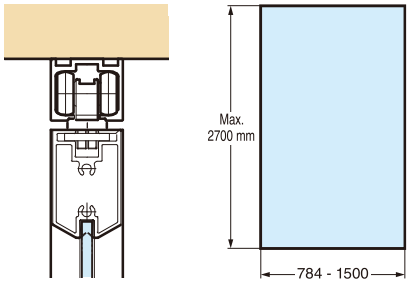
Frame design makes cleaning easy



The cross section uses a slanted edge design to prevent the accumulation of dust.

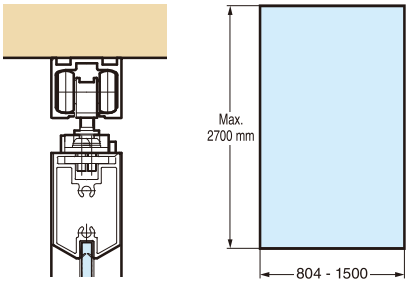
[Lineup]

Recessed Mount



▶Two-Way Damper Specifications (P.747)
▶Standard Specifications (no closer) (P.750)

Surface Mount



▶Two-Way Damper Specifications (P.754)
▶Standard Specifications (no closer) (P.758)

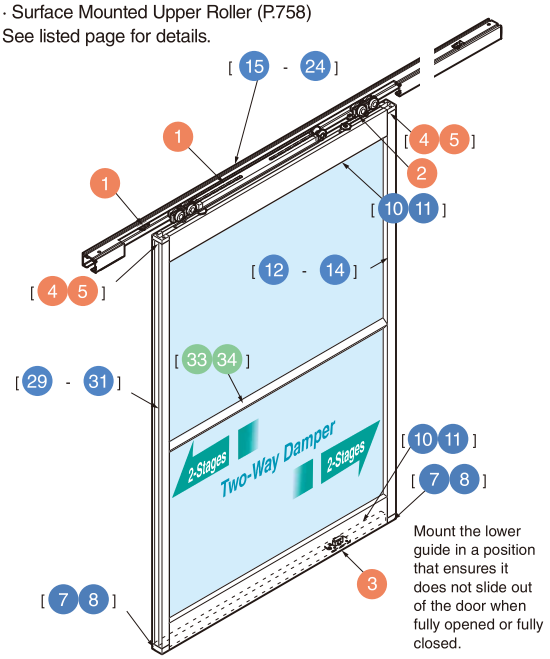
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP FD80-AFH Two-way Damper / Recessed Upper Roller NEW

Latest Info

Installation Example

The circled numbers indicate part numbers. Refer to the Parts Table as well.
(P.748)
· Recessed Upper Roller (P.750)
· Surface Mounted Upper Roller Two-Way Damper (P.754)
· Surface Mounted Upper Roller (P.758)
See listed page for details.



Mount the lower guide in a position that ensures it does not slide out of the door when fully opened or fully closed.

Middle rail (required quantity for rail frames 33 and 34)	0 pc (no middle rail)	1 pc	2 pcs	3 pcs
Door Height	up to 2200 mm			2201 – 2700 mm
Door Width	784 – 900 mm		901 – 1500 mm	
Glass Thickness	5 mm or 6 mm			
Door Weight (per door)	Max. 80 kg			
Height Adjustment	1 mm upward, 4 mm downward			

- Aluminium frame sliding door hardware for ceiling-recessed upper track doors.
- TTwo-Way Damper type mounted, offering slow and quiet opening and closing in both directions.
- Thick and unlikely to warp, the aluminium frame supports large doors up to 80 kg.
- The aluminium frame uses a slanted edge design to prevent the accumulation of dust.

TEMPERED GLASS | INSTRUCTION

Description

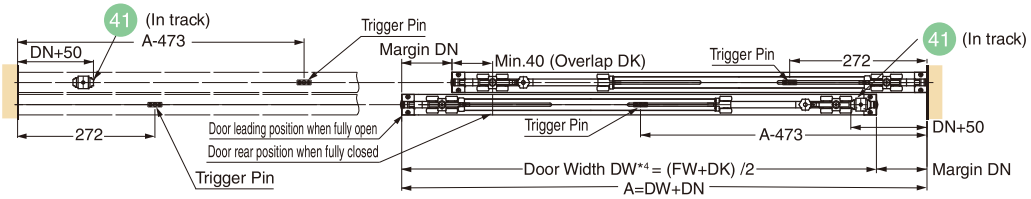
- The recommended usage temperature range: 5 °C - 40 °C

Caution

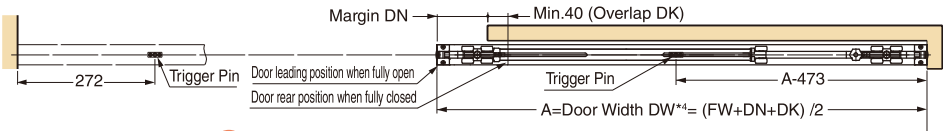
- The Soft Close mechanism may not function properly if the door is closed either forcefully or extremely slowly.
- The door closing speed, as influenced by the Soft Close function, may vary due to room temperature, operating method, and usage environment.
- Ensure the frame is strong enough to withstand the forces of opening and closing, and that it is suitable for supporting the door's weight. A frame that lacks sufficient strength can significantly impair door movement and may cause the upper track to fall, posing a serious safety hazard.
- When vertical frame is not used, mount a door stopper 32 on the bottom part.
- When selecting this product, be sure to read the marking guide for reinforced glass.

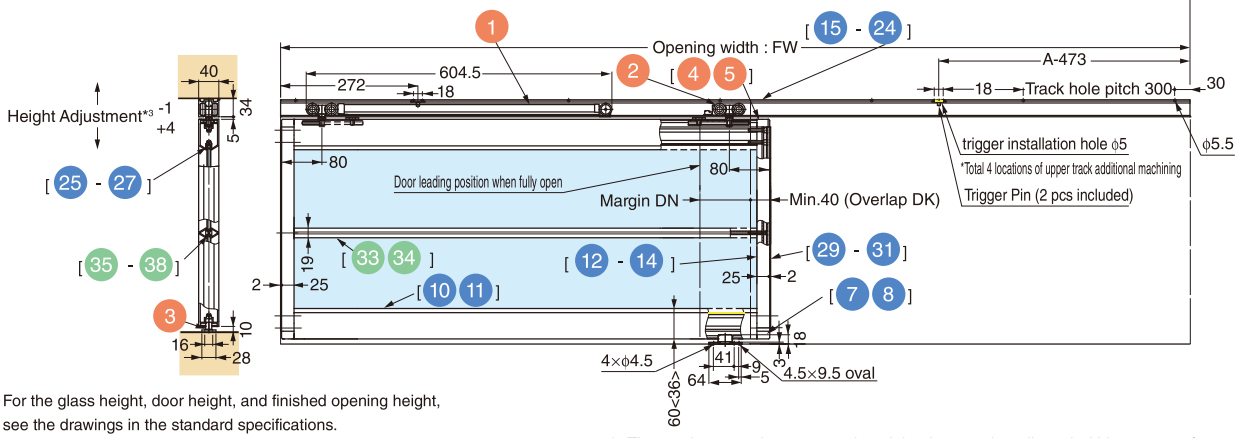
Installation

For double sliding doors
Parts Set:
FD80DHCMP-AF
2 sets used



For single sliding door





For the glass height, door height, and finished opening height, see the drawings in the standard specifications.
(P.750)

*3 The gap between the upper track and the door can be adjusted within a range of -1 mm to +4 mm.
*4 Door width DW dimension includes the edge cover.
Figures in <> are the dimensions with side frame (slim).

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

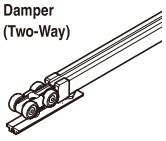
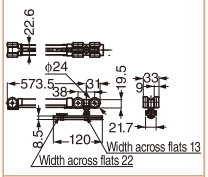
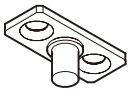
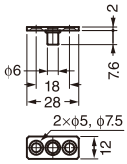
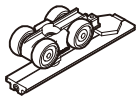
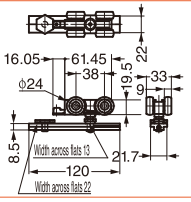
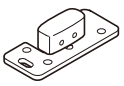
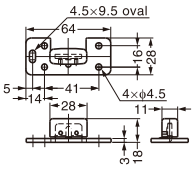
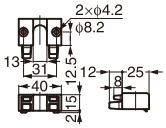
How to Order FD80-AFH Two-way Damper / Recessed Upper Roller

- Required Parts ..... **Parts Set** + **Corner Parts, Vertical Frame, Horizontal Frame, Upper Track, Screws** + **Gasket, Edge Cover**
- Order in accordance with the application (for applications, see the Specifications field)..... **Optional Parts**

Parts Set (per door) — Required Parts

Set Name	Item Code	Item Name
Parts Set (Silver)	250-022-257	FD80DHCHP-AF
Parts Set (Black)	250-050-782	FD80DHCHP-AF-BL

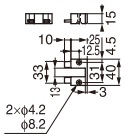
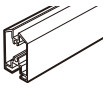
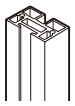
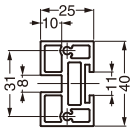
Parts Included

No.	Qty	Part Name	Dimensions	Description
1	1 pc	Recessed Mount Damper (Two-Way) 		**Item Code: 250-022-239** **Item Name: FD80-WRH-DSC** • Material: Steel (SPCC)/ Polyacetal (POM) • Finish: Chromate/Black
	2 pcs	Trigger Pin* 		**Item Code: 250-037-730** **Item Name: FD80-TRG** • Material: Steel • Finish: Chromate (trivalent) Included screws: Cross-recessed flat head tapping screws 4×30 (size: ϕ6) 4 pcs
	1 pc	Trigger Installation Jig for FD80*  Read the precautions for installation for information on using this product. (P.763)	–	**Item Code: 250-036-530** **Item Name: FD80-TRJ** • Material: Polyacetal (POM) • Colour: Green
2	1 pc	Recessed Mount Standard Sliding 		**Item Code: 250-022-241** **Item Name: FD80-WRH** • Material: Zinc Alloy/Polyacetal (POM) • Finish: Nickel/Natural
3	1 pc	Floor Guide 		**Item Code: 250-020-773** **Item Name: FD50-BG18** • Material: SUS 304/ Polyacetal (POM) • Finish: Plain/White • Included screws: Cross-recessed binding head tapping screw 4×16
4	2 pcs	Corner Cap 		**Item Code: 250-121-141** **Item Name: AF-25HB-EC** • Material: Elastomer • Colour: Grey
5	2 pcs			**Item Code: 250-050-783** **Item Name: AF-25HB-EC-BL** • Material: Elastomer • Colour: Black
6	1 pc	Adjusting Spanner 	–	**Item Code: 250-022-252** **Item Name: FD80-HHSP** • Main Material: Steel • Finish: Chromate

*Included with Two-Way Damper and also available for individual purchase.

Corner Parts, Vertical Frame, Horizontal Frame, Screws

Required Parts (Select one from each)
Please order necessary length and quantity of 12 - 14, 15 - 24 based on opening width.

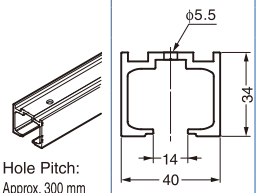
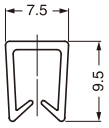
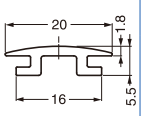
No.	Type	Item Code	Part Name	Dimensions	Description
7	Silver	250-120-056 Item Name AF-25-P04	Corner Parts  [Required Parts for 1 Door]: 2 pcs		• Material: Zinc Alloy • Finish: Soft Chrome Plating
8	Black	250-048-952 Item Name AF-25-P04-BL			• Material: Zinc Alloy • Finish: Baked Coating
9	–	250-181-199 Item Name AF-25-HS	Screw Set  *Screws for 3 rail frames included	M6×30 Hex. Bolt : 8 pcs M4×30 Hex. Bolt (for Intermediate Support) : 6 pcs M4×25 Allen Screw : 8 pcs	• Material: SUS 304 • Finish: Plain
	–	250-053-096 Item Name AF-25-HS-S	Screw Set (for slim) 	M6×30 Hex. Bolt :4 pcs M4×30 Hex. Bolt (for Intermediate Support) : 6 pcs M4×25 Allen Screw : 8 pcs 4×20 Grooved Pin: 10 pcs	• Material: Steel Alloy • Finish: Chromate (trivalent)
10	Silver 2000 mm	250-120-070 Item Name AF-25-W02	Horizontal Frame  Weight: 1.4 kg/1000 mm		• Material: Aluminium Alloy • Finish: Anodized Matte
	Black 2000 mm	250-048-953 Item Name AF-25-W02-BL			
11	Slim Silver 2000 mm	250-046-270 Item Name AF-25-WS02	Horizontal Frame (slim)  Weight: 1.3 kg/1000 mm		
	Slim Black 2000 mm	250-046-271 Item Name AF-25-WS02-BL			
12	Silver 2500 mm	250-940-965 Item Name AF-25-W01-2.5M	Vertical Frame  Weight: 1.1 kg/1000 mm		• Material: Aluminium Alloy • Finish: Anodized Matte
13	Silver 3000 mm	250-121-116 Item Name AF-25-W01-3M			
14	Black 3000 mm	250-048-954 Item Name AF-25-W01-3M-BL			

Parts are listed on the next page as well

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

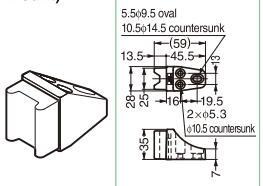
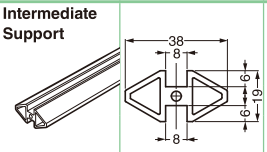
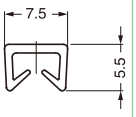
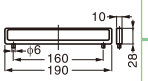
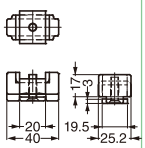
Upper Track, Gasket, Edge Cover

Required Parts (Select one from each)
Please order necessary length and quantity of 25 - 31 based on door size.

No.	Type	Item Code	Part Name	Dimensions	Description
15	Silver 2000 mm	250-022-244 Item Name FD80-TRM2000SL	Upper Track Hole Pitch: Approx. 300 mm Pitch End: Approx. 30 mm		• Material: Aluminium • Finish: Anodized +Coating/ Clear Included screws: Cross-recessed pan head tapping screws 5×40
16	Silver 2730 mm	250-022-246 Item Name FD80-TRM2730SL			
17	Silver 3640 mm	250-022-248 Item Name FD80-TRM3640SL			
18	Amber 2000 mm	250-022-245 Item Name FD80-TRM2000UM			
19	Amber 2730 mm	250-022-247 Item Name FD80-TRM2730UM			
20	Amber 3640 mm	250-022-249 Item Name FD80-TRM3640UM			
21	White 2000 mm	250-048-939 Item Name FD80-TRM2000WT			
22	White 2730 mm	250-048-940 Item Name FD80-TRM2730WT			
23	White 3640 mm	250-048-941 Item Name FD80-TRM3640WT			
24	Black 3640 mm	250-048-942 Item Name FD80-TRM3640BL			
25	Light Grey for 5 mm Glass 2500 mm	250-940-960 Item Name AF-25-P02	Gasket		• Material: Elastomer (TPE)
26	Black for 5 mm Glass 2500 mm	250-050-784 Item Name AF-25-P02-BL			
27	Light Grey for 6 mm Glass 3000 mm	250-181-197 Item Name AF-25-P15			
28	Black for 6 mm Glass 3000 mm	250-048-955 Item Name AF-25-P15-BL			
29	Light Grey 2500 mm	270-940-959 Item Name AF-25-P01-25	Edge Cover		• Material: Elastomer (TPE)
30	Light Grey 3000 mm	270-942-846 Item Name AF-25-P01-30			
31	Black 3000 mm	250-048-956 Item Name AF-25-P01-30-BL			

Optional Parts

For applications, see the Specifications field below.

No.	Type	Item Code	Part Name	Dimensions	Description
32	–	250-018-497 Item Name FD30-HTKY	Door Stopper (floor mount)		• Material: Zinc Alloy/Rubber • Finish: Silver Painting/Black Included screws: Crossrecessed binding head tapping screw 4x30 (3 pcs) [Application] Floor-mounted door stopper designed for sliding doors that do not contact the side jamb on either the leading or trailing edges.
33	Silver 2000 mm	250-940-967 Item Name AF-25-W03	Intermediate Support		• Material: Aluminium Alloy • Finish: Anodized [Application] Middle rail for large doors.
34	Black 2000 mm	250-048-957 Item Name AF-25-W03-BL			
35	Light Grey 2500 mm for 5 mm Glass	250-940-961 Item Name AF-25-P03	Gasket for Intermediate Support		• Material: Elastomer (TPE) [Application] Used as a set with rail frames 33 and 34.
36	Black 2500 mm for 5 mm Glass	250-050-785 Item Name AF-25-P03-BL			
37	Light Grey 2500 mm for 6 mm Glass	250-181-196 Item Name AF-25-P16			
38	Black 2500 mm for 6 mm Glass	250-048-958 Item Name AF-25-P16-BL			
39	Silver	100-010-386 Item Name MN799Z160E101	Handle		• Material: Zinc Alloy • Finish: Satin Nickel Chrome Plating [Application] Handle attached to 2 ϕ7 holes drilled in 12 to 14.
40	Black	100-040-958 Item Name MN799Z160E130			• Material: Zinc Alloy • Finish: Baked Coating [Application] Handle attached to 2 ϕ7 holes drilled in 12 to 14.
41	–	250-022-251 Item Name FD80-HSB	Stopper Block		• Material: Steel / EPDM • Finish: Chromate / Black Used in upper track. [Application] Door stopper mounts on upper track. This stopper stops the upper roller at a suitable position and prevents the door from coming off the lower guide.
42	–	250-053-106 Item Name AF-25-JIG-SET *The use of a punching jig and pin is recommended for the side frame (slim)	Punching Jig	Item Name: AF-25-JIG Item Code: 250-053-102	• Material: Aluminium Alloy • Finish: Anodized
			Punching Pin	Item Name: AF-25-PIN Item Code: 250-053-103	• Material: Stainless Steel • Finish: Plain

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

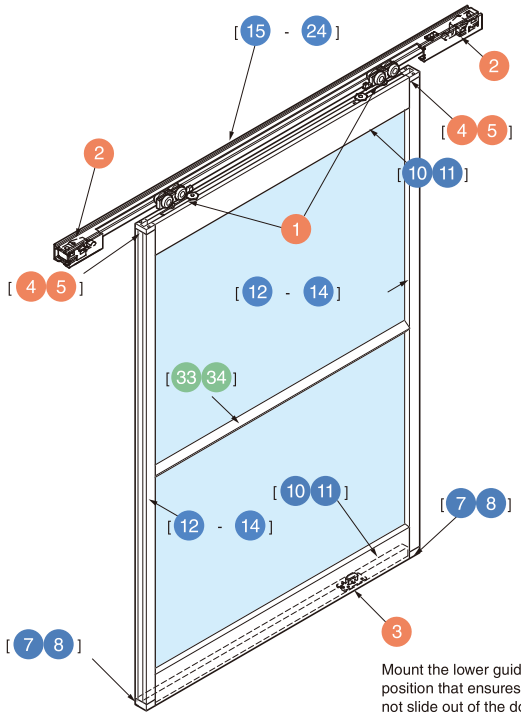
LAMP FD80-AFH Recessed Upper Roller NEW

Latest Info

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

[Installation Example]

The circled numbers indicate part numbers.
Refer to the Parts Table as well. (P.751)
·Two-way Damper / Recessed Upper Roller (P.747)
·Surface Mounted Upper Roller Two-Way Damper (P.754)
·Surface Mounted Upper Roller (P.758)
See listed page for details.



Mount the lower guide in a position that ensures it does not slide out of the door when fully opened or fully closed.

Middle rail (required quantity for rail frames 33 and 34)	0 pc (no middle rail)	1pc	2 pcs	3 pcs
Door Height	up to 2200 mm			2201 – 2700 mm
Door Width	784 – 900 mm		901 – 1500 mm	
Glass Thickness	5 mm or 6 mm			
Door Weight (per door)	Max. 80 kg			
Height Adjustment	1 mm upward, 4 mm downward			

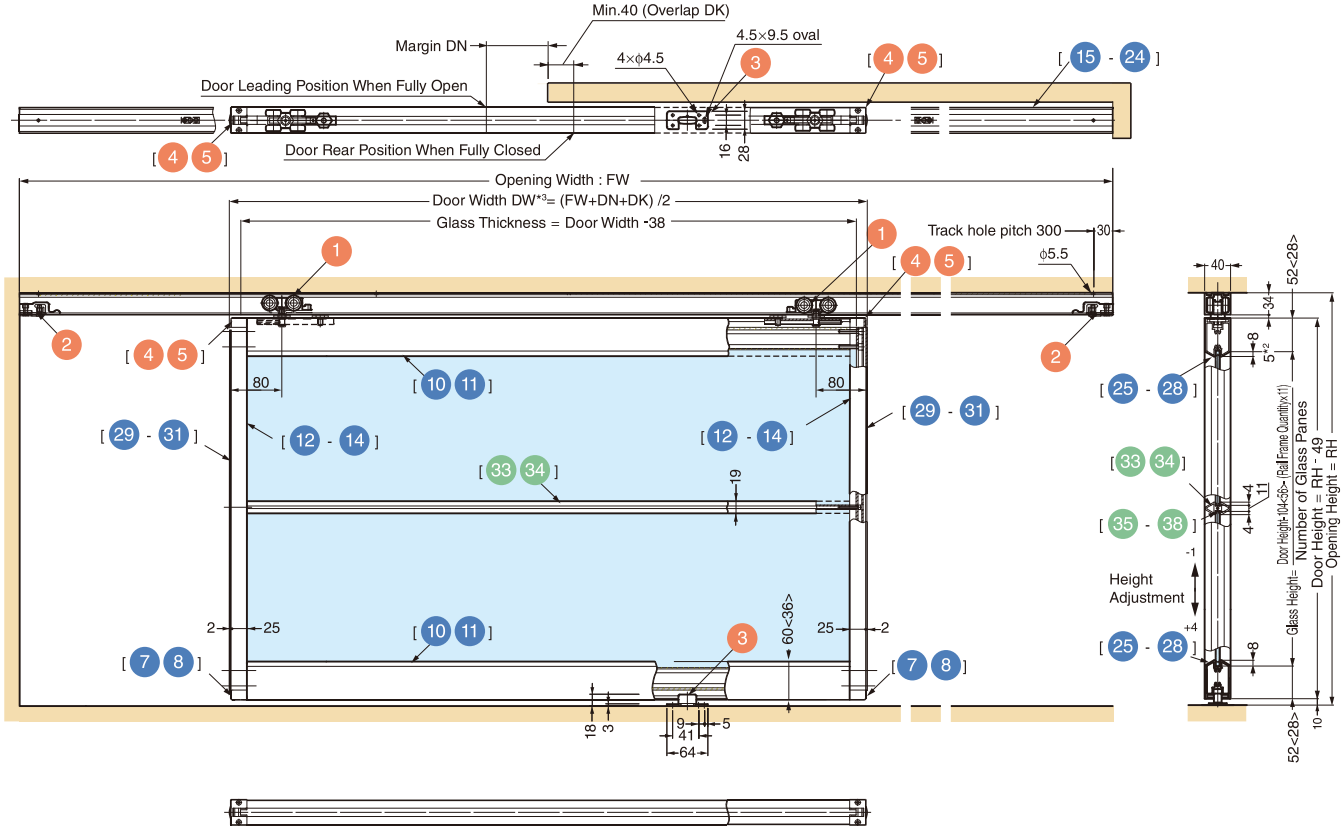
- Aluminium frame sliding door hardware for ceiling-recessed upper track doors.
- Thick and unlikely to warp, the aluminium frame supports large doors up to 80 kg.
- The aluminium frame uses a slanted edge design to prevent the accumulation of dust.
- Black frames are now available.
- White upper tracks are now available.
- Side frames (slim) are now available.

TEMPERED GLASS | INSTRUCTION

Caution

- Ensure the frame is strong enough to withstand the forces of opening and closing, and that it is suitable for supporting the door's weight. A frame that lacks sufficient strength can significantly impair door movement and may cause the upper track to fall, posing a serious safety hazard.
- When installing a door that does not make contact with the side jambs, secure a door stopper to the floor to prevent the door from sliding out of the track.
- When selecting this product, be sure to read the marking guide for reinforced glass.

Installation



*2 The gap between the upper track and the door can be adjusted within a range of -1 mm to +4 mm.
*3 Door Width DW dimension includes the edge cover.
Figures in <> are the dimensions with side frame (slim).

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

How to Order FD80-AFH Recessed Upper Roller

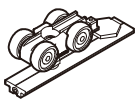
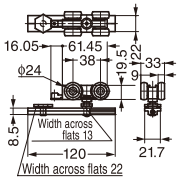
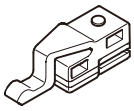
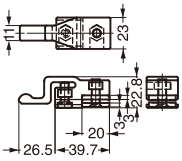
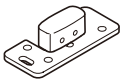
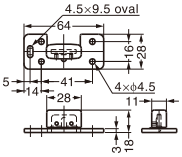
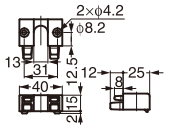
- Required Parts ..... **Parts Set** + **Corner Parts, Vertical Frame, Horizontal Frame, Upper Track, Screws** + **Gasket, Edge Cover**
- Order in accordance with the application (for applications, see the Specifications field)..... **Optional Parts**

Parts Set (per door)

Order Necessary. Each item includes required parts as a set.

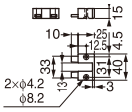
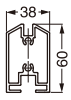
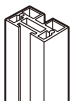
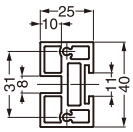
Set Name	Item Code	Item Name
Parts Set (Silver)	250-022-258	FD80HHP-AF
Parts Set (Black)	250-050-788	FD80HHP-AF-BL

Parts Included

No.	Qty	Part Name	Dimensions	Description
1	2 pcs	Recessed Mount Standard Sliding 		**Item Code: 250-022-241** **Item Name: FD80-WRH** • Material: Zinc Alloy/Polyacetal • Finish: Nickel/Natural
2	2 pcs	End Stopper 		**Item Code: 250-022-250** **Item Name: FD80-HTST** • Material: Steel (SPCC)/ Polyacetal (POM) • Finish: Chromate/Natural
3	1 pc	Floor Guide 		**Item Code: 250-020-773** **Item Name: FD50-BG18** • Material: SUS 304/ Polyacetal (POM) • Finish: Plain/White Included screws: Cross-recessed binding head tapping screw 4×16
4	2 pcs	Corner Cap 		**Item Code: 250-121-141** **Item Name: AF-25HB-EC** • Material: Elastomer (TPE) • Colour: Grey
5	2 pcs			**Item Code: 250-050-783** **Item Name: AF-25HB-EC-BL** • Material: Elastomer (TPE) • Colour: Black
6	1 pc	Adjusting Spanner 	–	**Item Code: 250-022-252** **Item Name: FD80-HHSP** • Material: Steel • Finish: Chromate

Corner Parts, Vertical Frame, Horizontal Frame, Screws

Required Parts(Select one from each)
Please order necessary length and quantity of 12 - 14 based on door size and 15 - 24 based on opening width.

No.	Type	Item Code	Part Name	Dimensions	Description
7	Silver	250-120-056 Item Name AF-25-P04	Corner Parts  [Required Parts for 1 Door]: 2 pcs		• Material: Zinc Alloy • Finish: Soft Chrome Plating
8	Black	250-048-952 Item Name AF-25-P04-BL			• Material: Zinc Alloy • Finish: Baked Coating Black
9	–	250-181-199 Item Name AF-25-HS	Screw Set  *Screws for 3 rail frames included	M6×30 Hex. Bolt : 8 pcs M4×30 Hex. Bolt (for Intermediate Support) : 6 pcs M4×25 Allen Screw : 8 pcs	• Material: Stainless Steel • Finish: Plain
	–	250-053-096 Item Name AF-25-HS-S	Screw Set (for slim) 	M6×30 Hex. Bolt : 4 pcs M4×30 Hex. Bolt : 6 pcs M4×25 Allen Screw : 8 pcs 4×20 Grooved Pin: 10pcs	• Material: Steel • Finish: Chromate (trivalent)
10	Silver 2000 mm	250-120-070 Item Name AF-25-W02	Horizontal Frame  Weight: 1.4 kg/ 1000 mm		• Material: Aluminium Alloy • Finish: Anodized Matte
	Black 2000 mm	250-048-953 Item Name AF-25-W02-BL			
11	Slim Silver 2000 mm	250-046-270 Item Name AF-25-WS02	Horizontal Frame (slim)  Weight: 1.3 kg/ 1000 mm		
	Slim Black 2000 mm	250-046-271 Item Name AF-25-WS02-BL			
12	Silver 2500 mm	250-940-965 Item Name AF-25-W01-2.5M	Vertical Frame  Weight: 1.1 kg/ 1000 mm		• Material: Aluminium Alloy • Finish: Anodized Matte
13	Silver 3000 mm	250-121-116 Item Name AF-25-W01-3M			
14	Black 3000 mm	250-048-954 Item Name AF-25-W01-3M-BL			

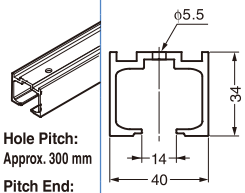
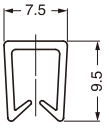
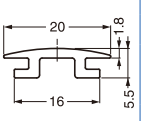
Parts are listed on the next page as well ➡

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

Upper Track, Gasket, Edge Cover

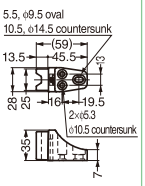
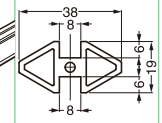
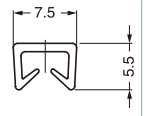
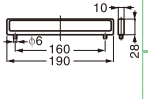
Required Parts (Select One)

Please order necessary length and quantity of 25 - 31 based on door size.

No.	Type	Item Code	Part Name	Dimensions	Description
15	Silver 2000 mm	250-022-244 Item Name FD80-TRM2000SL	Upper Track Hole Pitch: Approx. 300 mm Pitch End: Approx. 30 mm		• Material: Aluminium Alloy • Finish: Anodized +Coating/Clear Included screws: Cross-recessed pan head tapping screws 5×40
16	Silver 2730 mm	250-022-246 Item Name FD80-TRM2730SL			
17	Silver 3640 mm	250-022-248 Item Name FD80-TRM3640SL			
18	Amber 2000 mm	250-022-245 Item Name FD80-TRM2000UM			
19	Amber 2730 mm	250-022-247 Item Name FD80-TRM2730UM			
20	Amber 3640 mm	250-022-249 Item Name FD80-TRM3640UM			
21	White 2000 mm	250-048-939 Item Name FD80-TRM2000WT			
22	White 2730 mm	250-048-940 Item Name FD80-TRM2730WT			
23	White 3640 mm	250-048-941 Item Name FD80-TRM3640WT			
24	Black 3640 mm	250-048-942 Item Name FD80-TRM3640BL			
25	Light Grey for 5 mm Glass 2500 mm	250-940-960 Item Name AF-25-P02	Gasket		• Material: Elastomer (TPE)
26	Black for 5 mm Glass 2500 mm	250-050-784 Item Name AF-25-P02-BL			
27	Light Grey for 6 mm Glass 3000 mm	250-181-197 Item Name AF-25-P15			
28	Black for 6 mm Glass 3000 mm	250-048-955 Item Name AF-25-P15-BL			
29	Light Grey 2500 mm	270-940-959 Item Name AF-25-P01-25	Edge Cover		• Material: Elastomer (TPE)
30	Light Grey 3000 mm	270-942-846 Item Name AF-25-P01-30			
31	Black 3000 mm	250-048-956 Item Name AF-25-P01-30-BL			

Optional Parts

For applications, see the Specifications field below.

No.	Type	Item Code	Part Name	Dimensions	Description
32	–	250-018-497 Item Name FD30-HTKY	Door Stopper (floor mount)		• Material: Zinc Alloy/Rubber • Finish: Silver Painting/Black Included screws: Cross-recessed binding head tapping screws 4×30 (3 pcs) [Application] Floor-mounted door stopper designed for sliding doors that do not contact the side jamb on either the leading or trailing edges.
33	Silver 2000 mm	250-940-967 Item Name AF-25-W03	Intermediate Support		• Material: Aluminium Alloy • Finish: Anodized [Application] Middle rail for large doors.
34	Black 2000 mm	250-048-957 Item Name AF-25-W03-BL			
35	Light Grey 2500 mm for 5 mm Glass	250-940-961 Item Name AF-25-P03	Gasket for Intermediate Support		• Material: Elastomer (TPE) [Application] Used as a set with rail frames 33 and 34.
36	Black 2500 mm for 5 mm Glass	250-050-785 Item Name AF-25-P03-BL			
37	Light Grey 2500 mm for 6 mm Glass	250-181-196 Item Name AF-25-P16			
38	Black 2500 mm for 6 mm Glass	250-048-958 Item Name AF-25-P16-BL			
39	Silver	100-010-386 Item Name MN799Z160E101	Handle		• Material: Zinc Alloy • Finish: Satin Nickel Chrome Plating [Application] Handle attached to 2 ϕ7 holes drilled in 12 to 14.
40	Black	100-040-958 Item Name MN799Z160E130			• Material: Zinc Alloy • Finish: Baked Coating [Application] Handle attached to 2 ϕ7 holes drilled in 12 to 14.
41	–	250-053-106 Item Name AF-25-JIG-SET *The use of a punching jig and pin is recommended for the side frame (slim)	Punching Jig Item Name: AF-25-JIG Item Code: 250-053-102 Punching Pin Item Name: AF-25-PIN Item Code: 250-053-103		• Material: Aluminium Alloy • Finish: Anodized • Material: Stainless Steel • Finish: Plain

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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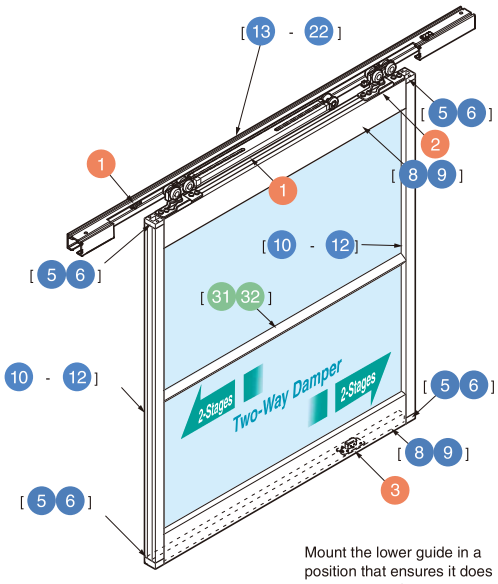
- Keyword Search + Product Filters
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- Product Videos
- Hardware Basics
- Selection Tools

LAMP FD80-AFH Surface Mounted Upper Roller Two-Way Damper NEW

Latest Info

[Installation Example]

The circled numbers indicate part numbers.
Refer to the Parts Table as well. (P.755)
·Two-way Damper / Recessed Upper Roller (P.747)
·Recessed Upper Roller (P.750)
·Surface Mounted Upper Roller (P.758)
See listed page for details.



Mount the lower guide in a position that ensures it does not slide out of the door when fully opened or fully closed.

Middle rail (required quantity for rail frames 31 and 32)	0 pc (no middle rail)	1 pc	2 pcs	3 pcs
Door Height	up to 2200 mm			2201 – 2700 mm
Door Width	804 – 900 mm		901 – 1500 mm	
Glass Thickness	5 mm or 6 mm			
Door Weight (per door)	Max. 80 kg			
Height Adjustment	4 mm upward, 4 mm downward			

- Aluminium frame sliding door hardware for ceiling-surface mounted upper track doors.
- Two-Way Damper type mounted, offering slow and quiet opening and closing in both directions.
- Thick and unlikely to warp, the aluminium frame supports large doors up to 80 kg.
- The aluminium frame uses a slanted edge design to prevent the accumulation of dust.
- Black frames are now available.
- White upper tracks are now available.
- Side frames (slim) are now available.

TEMPERED GLASS | INSTRUCTION

Description

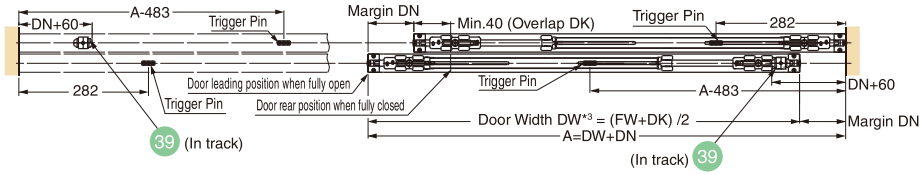
- The recommended usage temperature range: 5 °C - 40 °C

Caution

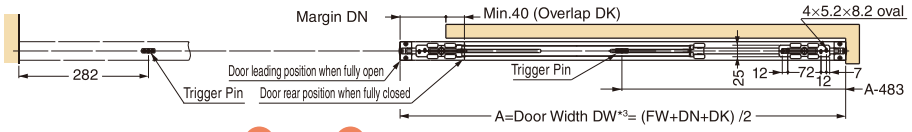
- The Soft Close mechanism may not function properly if the door is closed either forcefully or extremely slowly.
- The door closing speed, as influenced by the Soft Close function, may vary due to room temperature, operating method, and usage environment.
- Ensure the frame is strong enough to withstand the forces of opening and closing, and that it is suitable for supporting the door's weight. A frame that lacks sufficient strength can significantly impair door movement and may cause the upper track to fall, posing a serious safety hazard.
- When installing a door that does not make contact with the side jambs, secure a door stopper to the floor to prevent the door from sliding out of the track.
- When selecting this product, be sure to read the marking guide for reinforced glass.

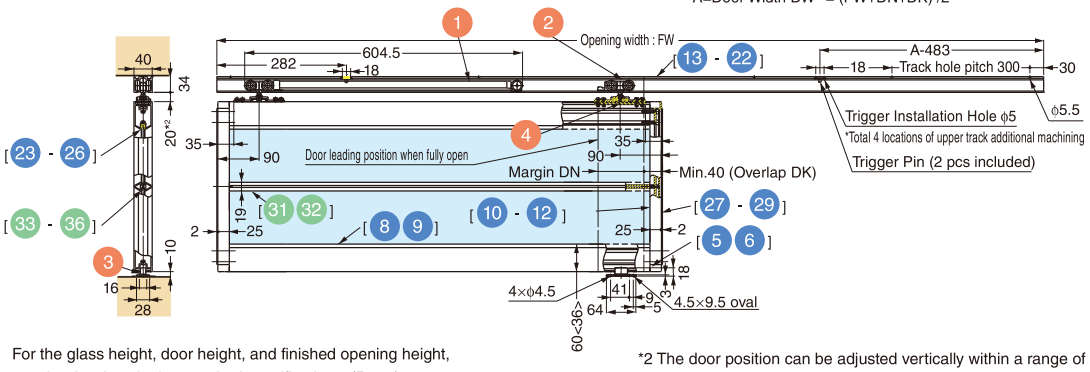
Installation

For double sliding doors
Parts Set:
FD80DHCMP-AF
2 sets used



For single sliding door





For the glass height, door height, and finished opening height, see the drawings in the standard specifications. (P.758)

*2 The door position can be adjusted vertically within a range of -4 mm to +4 mm.
*3 Door Width DW dimension includes the edge cover.
Figures in <> are the dimensions with side frame (slim).

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

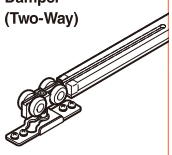
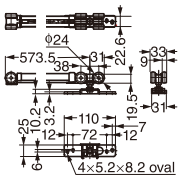
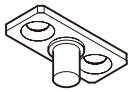
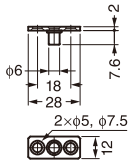
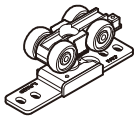
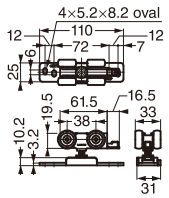
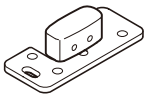
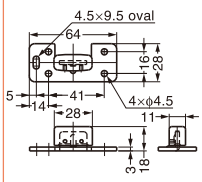
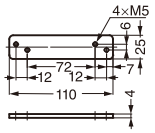
How to Order FD80-AFH Surface Mounted Upper Roller Two-Way Damper

- Required Parts .... **Parts Set** + **Corner Parts, Vertical Frame, Horizontal Frame, Upper Track, Screws** + **Gasket, Edge Cover**
- Order in accordance with the application (for applications, see the Specifications field).... **Optional Parts**

Parts Set (per door) — Required Parts

Set Name	Item Code	Item Name
Parts Set	250-022-259	FD80DHCMP-AF

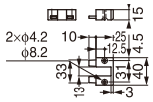
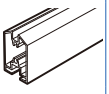
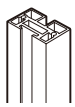
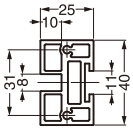
Parts Included

No.	Qty	Part Name	Dimensions	Description
1	1 pc	Surface Mount Damper (Two-Way) 		**Item Code: 250-022-240** **Item Name: FD80-WRM-DSC** • Material: Steel/Polyacetal • Finish: Chromate/Black **Included screws: Cross-recessed pan head tapping screws** **4×45 4 pcs**
1	2 pcs	Trigger Pin* 		**Item Code: 250-037-730** **Item Name: FD80-TRG** • Material: Steel • Finish: Chromate (trivalent) **Included screws: Cross-recessed flat head tapping screws** **4×30 (size: ϕ6) 4 pcs**
	1 pc	Trigger Installation Jig for FD80*  Read the precautions for installation for information on using this product. (P.763)	–	**Item Code: 250-036-530** **Item Name: FD80-TRJ** • Material: Polyacetal (POM) • Colour: Green
2	1 pc	Surface Mount Standard Sliding 		**Item Code: 250-022-242** **Item Name: FD80-WRM** • Material: Zinc Alloy /Polyacetal (POM) • Finish: Nickel/Natural
3	1 pc	Floor Guide S 		**Item Code: 250-020-773** **Item Name: FD50-BG18** • Material: SUS 304 /Polyacetal (POM) • Finish: Plain/Natural **Included screws: cross-recessed binding head tapping screw** **4×16**
4	1 Set	Sheet Nut 		**Item Code: 250-022-243** **Item Name: FD80-AFB** • Material: Steel • Finish: Chromate

*Included with Two-Way Damper and also available for individual purchase.

Corner Parts, Vertical Frame, Horizontal Frame, Screws

Required Parts(Select one from each)
Please order necessary length and quantity of 10 - 12 based on door size and 13 - 22 based on opening width.

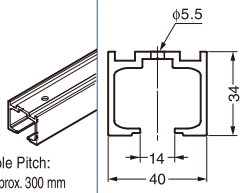
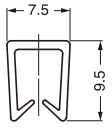
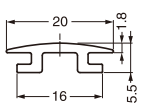
No.	Type	Item Code	Part Name	Dimensions	Description
5	Silver	250-120-056 Item Name AF-25-P04	Corner Parts  [Required Parts for 1 Door]: 4 pcs		• Material: Zinc Alloy • Finish: Soft Chrome Plating
6	Black	250-048-952 Item Name AF-25-P04-BL			• Material: Zinc Alloy • Finish: Baked Coating/ Black
7	–	250-181-199 Item Name AF-25-HS	Screw Set  *Screws for 3 rail frames included	M6×30 Hex. Bolt: 8 pcs M4×30 Hex. Bolt (for Intermediate Support) : 6 pcs M4×25 Allen Screw: 8 pcs	• Material: SUS 304 • Finish: Plain
7	–	250-053-096 Item Name AF-25-HS-S	Screw Set (for slim) 	M6×30 Hex. Bolt:4 pcs M4×30 Hex. Bolt: 6 pcs M4×25 Allen Screw: 8 pcs 4×20Grooved Pin: 10pcs	• Material: Steel • Finish: Chromate (trivalent)
8	Silver 2000 mm	250-120-070 Item Name AF-25-W02	Horizontal Frame  Weight: 1.4 kg/1000 mm		• Material: Aluminium Alloy • Finish: Anodized Matte
8	Black 2000 mm	250-048-953 Item Name AF-25-W02-BL			
9	Slim Silver 2000 mm	250-046-270 Item Name AF-25-WS02	Horizontal Frame (slim)  Weight: 1.3 kg/1000 mm		
9	Slim Black 2000 mm	250-046-271 Item Name AF-25-WS02-BL			
10	Silver 2500 mm	250-940-965 Item Name AF-25-W01-2.5M	Vertical Frame  Weight:1.1 kg/1000 mm		• Material: Aluminium Alloy • Finish: Anodized Matte
11	Silver 3000 mm	250-121-116 Item Name AF-25-W01-3M			
12	Black 3000 mm	250-048-954 Item Name AF-25-W01-3M-BL			

Parts are listed on the next page as well ➡

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

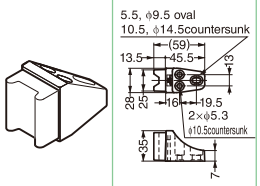
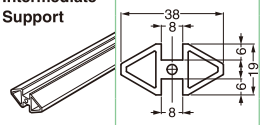
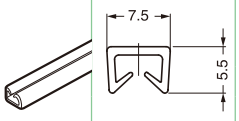
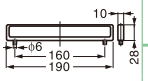
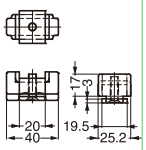
Upper Track, Gasket, Edge Cover

Required Parts(Select one from each)
Please order necessary length and quantity of 23 - 29 based on door size.

No.	Type	Item Code	Part Name	Dimensions	Description
13	Silver 2000 mm	250-022-244 Item Name FD80-TRM2000SL	Upper Track	 Hole Pitch: Approx. 300 mm Pitch End: Approx. 30 mm	• Material: Aluminium Alloy • Finish: Anodized +Coating/Clear Included screws: Cross-recessed pan head tapping screws 5×40
14	Silver 2730 mm	250-022-246 Item Name FD80-TRM2730SL			
15	Silver 3640 mm	250-022-248 Item Name FD80-TRM3640SL			
16	Amber 2000 mm	250-022-245 Item Name FD80-TRM2000UM			
17	Amber 2730 mm	250-022-247 Item Name FD80-TRM2730UM			
18	Amber 3640 mm	250-022-249 Item Name FD80-TRM3640UM			
19	White 2000 mm	250-048-939 Item Name FD80-TRM2000WT			
20	White 2730 mm	250-048-940 Item Name FD80-TRM2730WT			
21	White 3640 mm	250-048-941 Item Name FD80-TRM3640WT			
22	Black 3640 mm	250-048-942 Item Name FD80-TRM3640BL			
23	Light Grey for 5 mm Glass 2500 mm	250-940-960 Item Name AF-25-P02	Gasket		• Material: Elastomer (TPE)
24	Black for 5 mm Glass 2500 mm	250-050-784 Item Name AF-25-P02-BL			
25	Light Grey 6 mm for 6 mm Glass 3000 mm	250-181-197 Item Name AF-25-P15			
26	Black for 6 mm Glass 3000 mm	250-048-955 Item Name AF-25-P15-BL			
27	Light Grey 2500 mm	270-940-959 Item Name AF-25-P01-25	Edge Cover		• Material: Elastomer (TPE)
28	Light Grey 3000 mm	270-942-846 Item Name AF-25-P01-30			
29	Black 3000 mm	250-048-956 Item Name AF-25-P01-30-BL			

Optional Parts

For applications, see the Specifications field below.

No.	Type	Item Code	Part Name	Dimensions	Description
30	–	250-018-497 Item Name FD30-HTKY	Door Stopper (floor mount)		• Material: Zinc Alloy/Rubber • Finish: Silver painting/Black Included screws: Cross-recessed binding head tapping screw 4×30 [Application] Floor-mounted door stopper designed for sliding doors that do not contact the side jamb on either the leading or trailing edges.
31	Silver 2000 mm	250-940-967 Item Name AF-25-W03	Intermediate Support		• Material: Aluminium Alloy • Finish: Anodized [Application] Middle rail for large doors.
32	Black 2000 mm	250-048-957 Item Name AF-25-W03-BL			
33	Light Grey 2500 mm for 5 mm Glass	250-940-961 Item Name AF-25-P03	Gasket for Intermediate Support		• Material: Elastomer: (TPE) [Application] Used as a set with rail frames (31) and (32).
34	Black 2500 mm for 5 mm Glass	250-050-785 Item Name AF-25-P03-BL			
35	Light Grey 2500 mm for 6 mm Glass	250-181-196 Item Name AF-25-P16			
36	Black 2500 mm for 6 mm Glass	250-048-958 Item Name AF-25-P16-BL			
37	Silver	100-010-386 Item Name MN799Z160E101	Handle		• Material: Zinc Alloy • Finish: Satin Nickel Chrome Plating [Application] Handle attached to 2 ϕ7 holes drilled in (10) to (12).
38	Black	100-040-958 Item Name MN799Z160E130			• Material: Zinc Alloy • Finish: Baked Coating [Application] Handle attached to 2 ϕ7 holes drilled in (10) to (12).
39	—	250-022-251 Item Name FD80-HSB	Stopper Block		• Material: Steel/Ethylene Propylen Rubber (EPDM) • Finish/Colour: Chromate/Black [Application] Door stopper mounts on upper track. This stopper stops the upper roller at a suitable position and prevents the door from coming off the lower guide.
40	—	250-053-106 Item Name AF-25-JIG-SET *The use of a punching jig and pin is recommended for the side frame (slim)	Punching Jig	Item Name: AF-25-JIG Item Code: 250-053-102	• Material: Aluminium Alloy • Finish: Anodized
			Punching Pin	Item Name: AF-25-PIN Item Code: 250-053-103	• Material: Stainless Steel • Finish: Plain

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

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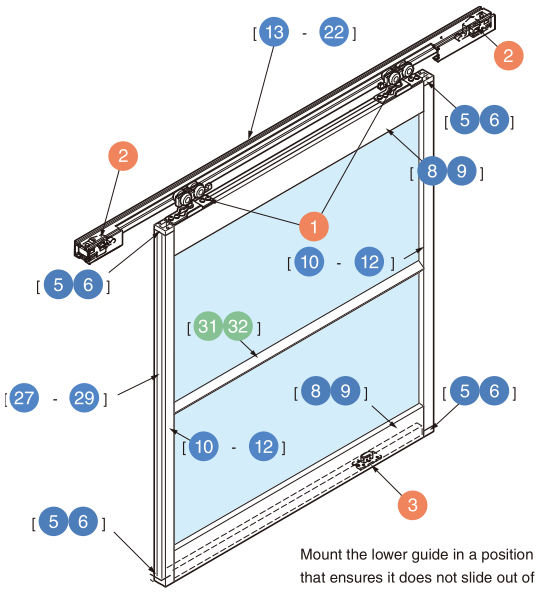
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- CAD Data (2D, 3D)
- Customer Solution Case Studies
- Product Videos
- Hardware Basics
- Selection Tools

LAMP FD80-AFH Surface Mounted Upper Roller NEW

Latest Info

[Installation Example]

The circled numbers indicate part numbers.
Refer to the Parts Table as well. (P.759)
·Two-way Damper / Recessed Upper Roller (P.747)
·Recessed Upper Roller (P.750)
·Surface Mounted Upper Roller Two-Way Damper (P.754)
See listed page for details.



Mount the lower guide in a position that ensures it does not slide out of the door when fully opened or fully closed.

Middle rail (required quantity for rail frames 31 and 32)	0 pc (no middle rail)	1 pc	2 pcs	3 pcs
Door Height	up to 2200 mm			2201–2700 mm
Door Width	804 – 900 mm		901 – 1500 mm	
Glass Thickness	5 mm or 6 mm			
Door Weight (per door)	Max. 80 kg			
Height Adjustment	4 mm upward, 4 mm downward			

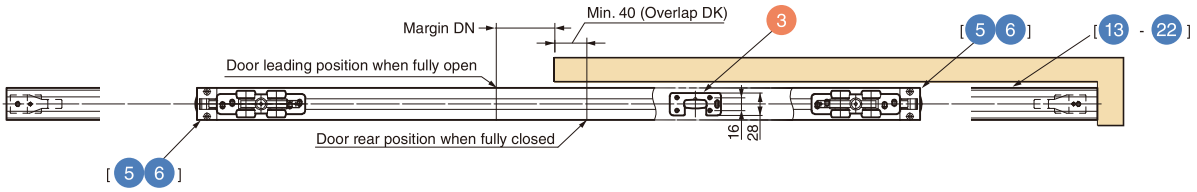
- Aluminium frame sliding door hardware for ceiling-surface mounted upper track doors.
- Thick and unlikely to warp, the aluminium frame supports large doors up to 80 kg.
- The aluminium frame uses a slanted edge design to prevent the accumulation of dust.
- Black frames are now available.
- White upper tracks are now available.
- Side frames (slim) are now available.

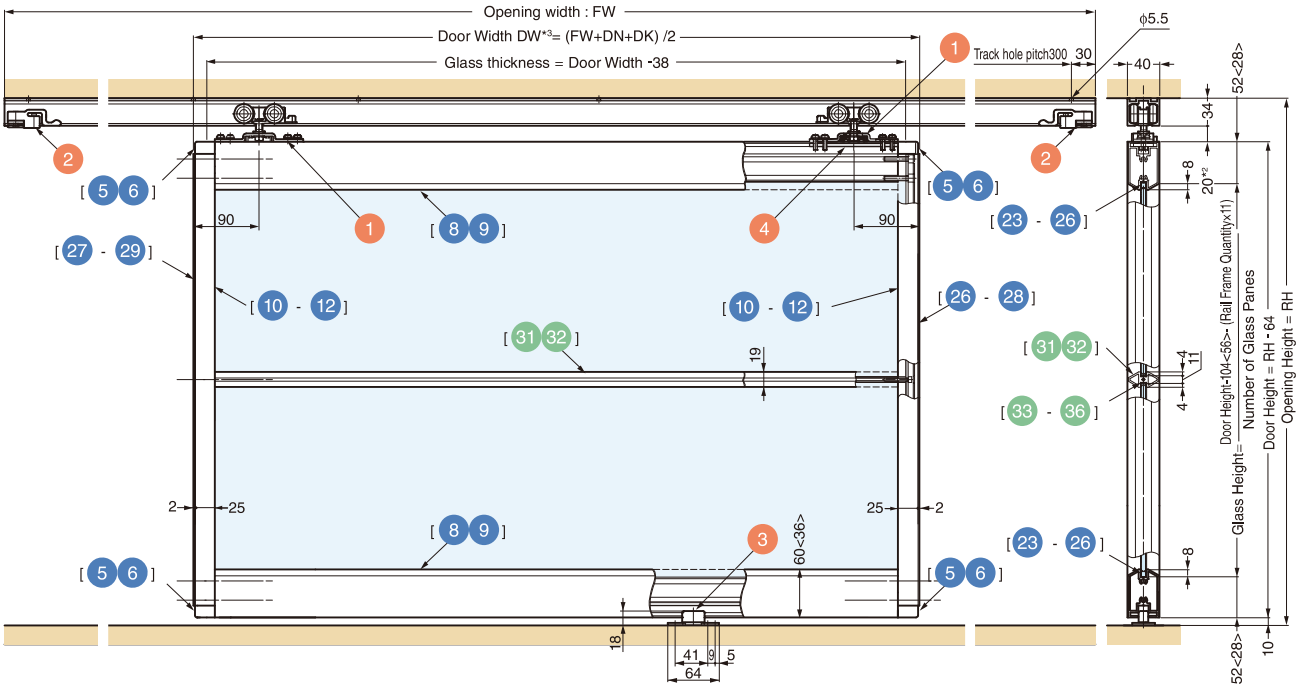
TEMPERED GLASS | INSTRUCTION

Caution

- Ensure the frame is strong enough to withstand the forces of opening and closing, and that it is suitable for supporting the door's weight. A frame that lacks sufficient strength can significantly impair door movement and may cause the upper track to fall, posing a serious safety hazard.
- When installing a door that does not make contact with the side jambs, secure a door stopper to the floor to prevent the door from sliding out of the track.
- When selecting this product, be sure to read the marking guide for reinforced glass.

Installation





*2 The door position can be adjusted vertically within a range of -4 mm to +4 mm.
*3 Door Width DW dimension includes the edge cover.
Figures in <> are the dimensions with side frame (slim).

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

How to Order FD80-AFH Surface Mounted Upper Roller

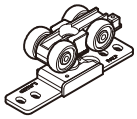
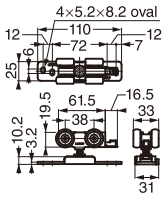
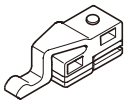
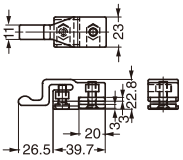
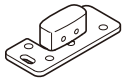
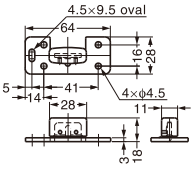
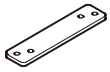
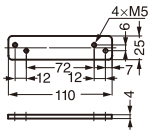
- Required Parts ..... **Parts Set** + **Corner Parts, Vertical Frame, Horizontal Frame, Upper Track, Screws** + **Gasket, Edge Cover**
- Order in accordance with the application (for applications, see the Specifications field)..... **Optional Parts**

Parts Set (per door)

Required Parts

Set Name	Item Code	Item Name
Parts Set	250-022-260	FD80-HMP-AF

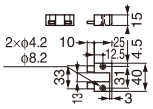
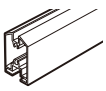
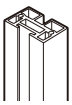
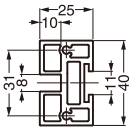
Parts Included

No.	Qty	Part Name	Dimensions	Description
1	2 pcs	Surface Mount Standard Sliding 		**Item Code: 250-022-242** **Item Name: FD80-WRM** • Material: Zinc Alloy /Polyacetal (POM) • Finish: Nickel /Natural
2	2 pcs	End Stopper 		**Item Code: 250-022-250** **Item Name: FD80-HTST** • Material: Steel /Polyacetal (POM) • Finish: Chromate /Natural
3	1 pc	Floor Guide S 		**Item Code: 250-020-773** **Item Name: FD50-BG18** • Material: SUS 304/ Polyacetal (POM) • Finish: Plain/Natural Included screws: Cross-recessed binding head tapping screw 4×16
4	1 Set	Sheet Nut 		**Item Code: 250-022-243** **Item Name: FD80-AFB** • Material: Steel • Finish: Chromate

Corner Parts, Vertical Frame, Horizontal Frame, Screws

Required Parts (Select one from each)

Please order necessary length and quantity of 10 - 12, 13 - 22 based on opening width.

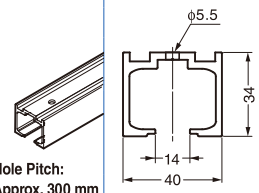
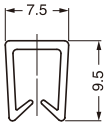
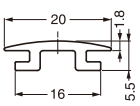
No.	Type	Item Code	Part Name	Dimensions	Description
5	Silver	250-120-056 Item Name AF-25-P04	Corner Parts  [Required parts for 1 door]: 4 pcs		• Material: Zinc Alloy • Finish: Soft Chrome Plating
6	Black	250-048-952 Item Name AF-25-P04-BL			• Material: Zinc Alloy • Finish: Baked Coating
7	–	250-181-199 Item Name AF-25-HS	Screw Set  *Screws for 3 rail frames included	M6×30 Hex. Bolt: 8 pcs M4×30 Hex. Bolt: 6 pcs M4×25 Allen Screw: 8 pcs	• Material: SUS 304 • Finish: Plain
	–	250-053-096 Item Name AF-25-HS-S	Screw Set (for slim) 	M6×30 Hex. Bolt: 4 pcs M4×30 Hex. Bolt: 6 pcs M4×25 Allen Screw: 8 pcs 4×20 Grooved Pin: 10 pcs	• Material: Steel • Finish: Chromate (trivalent)
8	Silver 2000 mm	250-120-070 Item Name AF-25-W02	Horizontal Frame  Weight: 1.4 kg/1000 mm		• Material: Aluminium Alloy • Finish: Anodized Matte
	Black 2000 mm	250-048-953 Item Name AF-25-W02-BL			
9	Slim Silver 2000 mm	250-046-270 Item Name AF-25-WS02	Horizontal Frame (slim)  Weight: 1.3 kg/1000 mm		
	Slim Black 2000 mm	250-046-271 Item Name AF-25-WS02-BL			
10	Silver 2500 mm	250-940-965 Item Name AF-25-W01-2.5M	Vertical Frame  Weight:1.1 kg/1000 mm		• Material: Aluminium Alloy • Finish: Anodized Matte
11	Silver 3000 mm	250-121-116 Item Name AF-25-W01-3M			
12	Black 3000 mm	250-048-954 Item Name AF-25-W01-3M-BL			

Parts are listed on the next page as well ➡

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

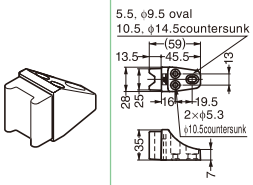
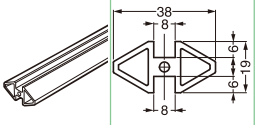
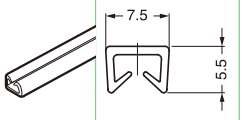
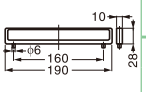
Upper Track, Gasket, Edge Cover

Required Parts (Select one from each)
Please order necessary length and quantity of 23 - 29 based on door size.

No.	Type	Item Code	Part Name	Dimensions	Description
13	Silver 2000 mm	250-022-244 Item Name FD80-TRM2000SL	Upper Track Hole Pitch: Approx. 300 mm Pitch End: Approx. 30 mm		• Material: Aluminium Alloy • Finish: Anodized +Coating/Clear Included screws: Cross-recessed pan head tapping screws 5x40
14	Silver 2730 mm	250-022-246 Item Name FD80-TRM2730SL			
15	Silver 3640 mm	250-022-248 Item Name FD80-TRM3640SL			
16	Amber 2000 mm	250-022-245 Item Name FD80-TRM2000UM			
17	Amber 2730 mm	250-022-247 Item Name FD80-TRM2730UM			
18	Amber 3640 mm	250-022-249 Item Name FD80-TRM3640UM			
19	White 2000 mm	250-048-939 Item Name FD80-TRM2000WT			
20	White 2730 mm	250-048-940 Item Name FD80-TRM2730WT			
21	White 3640 mm	250-048-941 Item Name FD80-TRM3640WT			
22	Black 3640 mm	250-048-942 Item Name FD80-TRM3640BL			
23	Light Grey for 5 mm Glass 2500 mm	250-940-960 Item Name AF-25-P02	Gasket		• Material: Elastomer (TPE)
24	Black for 5 mm Glass 2500 mm	250-050-784 Item Name AF-25-P02-BL			
25	Light Grey for 6 mm Glass 3000 mm	250-181-197 Item Name AF-25-P15			
26	Black for 6 mm Glass 3000 mm	250-048-955 Item Name AF-25-P15-BL			
27	Light Grey 2500 mm	270-940-959 Item Name AF-25-P01-25	Edge Cover		• Material: Elastomer (TPE)
28	Light Grey 3000 mm	270-942-846 Item Name AF-25-P01-30			
29	Black 3000 mm	250-048-956 Item Name AF-25-P01-30-BL			

Optional Parts

For applications, see the Specifications field below.

No.	Type	Item Code	Part Name	Dimensions	Description
30	–	250-018-497 Item Name FD30-HTKY	Door Stopper (floor mount)		• Material: Zinc Alloy/Rubber • Finish: Silver Painting/Black Included screws: Cross-recessed binding head tapping screw 4x30 [Application] Floor-mounted door stopper designed for sliding doors that do not contact the side jamb on either the leading or trailing edges.
31	Silver 2000 mm	250-940-967 Item Name AF-25-W03	Intermediate Support		• Material: Aluminium Alloy • Finish: Anodized [Application] Middle rail for large doors.
32	Black 2000 mm	250-048-957 Item Name AF-25-W03-BL			
33	Light Grey 2500 mm for 5 mm Glass	250-940-961 Item Name AF-25-P03	Gasket for Intermediate Support		• Material: Elastomer (TPE) [Application] Used as a set with rail frames (31) and (32).
34	Black 2500 mm for 5 mm Glass	250-050-785 Item Name AF-25-P03-BL			
35	Light Grey 2500 mm for 6 mm Glass	250-181-196 Item Name AF-25-P16			
36	Black 2500 mm for 6 mm Glass	250-048-958 Item Name AF-25-P16-BL			
37	Silver	100-010-386 Item Name MN799Z160E101	Handle		• Material: Zinc Alloy • Finish: Satin Nickel Chrome Plating [Application] Handle attached to 2 ϕ7 holes drilled in (10) to (12).
	Black	100-040-958 Item Name MN799Z160E130			• Material: Zinc Alloy • Finish: Baked Coating [Application] Handle attached to 2 ϕ7 holes drilled in (10) to (12).
38	–	250-053-106 Item Name AF-25-JIG-SET *The use of a punching jig and pin is recommended for the side frame (slim)	Punching Jig	 Item Name: AF-25-JIG Item Code: 250-053-102	• Material: Aluminium Alloy • Finish: Anodized
			Punching Pin	 Item Name: AF-25-PIN Item Code: 250-053-103	• Material: Stainless Steel • Finish: Plain

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- Installation Instructions
- New Product Information
- CAD Data (2D, 3D)
- Customer Solution Case Studies
- Product Videos
- Hardware Basics
- Selection Tools

Cautions for Sliding Door Hardware

Read the following precautions carefully before correctly mounting the product for use.
Be sure to read the mounting instruction manual before mounting.

- Be sure to read and confirm the Installation Precautions (P.730 - P.741).
- Test results listed here do not guarantee performance.
- Please read the precautions on the product pages as well.
- Do not use outdoors.
- The recommended usage temperature range is 5°C to 40°C.
- The door closing damper speed may vary due to room temperature, operating method, environment, etc.
- The soft close function is an auxiliary function enabling the door to close slowly automatically when closed. If slammed hard, the soft close function may not operate correctly, damage may be incurred, or durability may be seriously affected.
- If soft close products are used on doors much lighter than the recommended door weight, the door operation may feel stiff or the door may not slide smoothly.
- We recommend using larger, easily gripped handles with soft close products for ease of operation.
- The upper rollers of FD25, FD30, and FD35 can be selected from Single and Two-Way Damper. Be careful not to confuse them during installation.
- When using with a lever bolt, the soft close function may not work normally due to the product characteristics of the bolt. Confirm before use.
- Ensure the frame is strong enough to withstand the forces of opening and closing, and that it is suitable for supporting the door's weight. A frame that lacks sufficient strength can significantly impair door movement and may cause the upper track to fall, posing a serious safety hazard.
- For specifications where the door does not come into contact with the side jambs, see the precautions for installation (P.762).
- Use reinforcing material, etc. when cutting the upper track in order to keep the cut surface from deforming.
- The lower guide (for bottom mounting) FD30-HGR (P.639) should be used with the standard type (type without a soft close function). Use with the soft close function will lead to malfunction.
- In locations such as hospitals or barrier-free bathrooms where various people frequently open and close the doors (several hundred times a day), consider the use of LM-80 (slope type (P.770)), etc.
- Cannot be used in sauna rooms, hot springs and beach areas, and other environments with a high risk of salt damage.
- The warranty does not cover defects caused by the use of detergents or high-temperature water that can affect resins or metals.
- The warranty does not cover the effects of water stain adhesion, condensation, seepage, mould, etc., or defects caused by freezing.
- This product is not waterproof. It cannot be used inside a bathroom where it may be directly exposed to water.

LAMP Top Mounted Sliding Door FD25, FD30, FD35, FD50, FD80 Series Precautions for Installation

Marking Guide

FD25 FD30 FD35 FD50 FD80 Products corresponding to each description are displayed. Confirm with the relevant product.

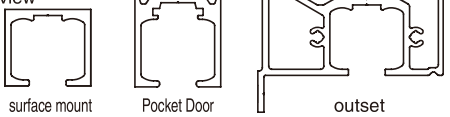
FD25 FD30
Track cutaway view



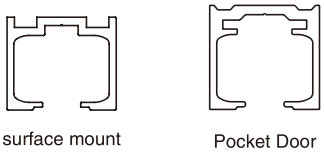
FD35
Track cutaway view



FD50
Track cutaway view



FD80
Track cutaway view

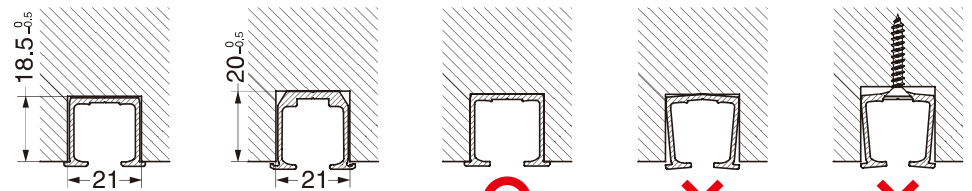


Mounting the Upper Track

1. Precautions for mortising of the upper frame

FD25 FD30 FD35 FD50 FD80

- If the upper frame is not machined to the recommended dimensions, the upper track will deform and the soft close function will not function normally.



The same precaution applies when recessing into the upper frame for surface mount specifications.

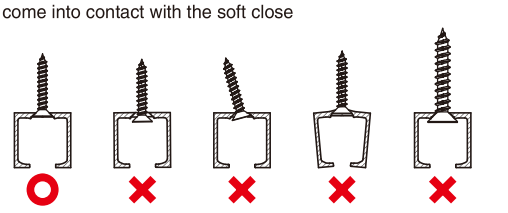
2. Precautions for mounting screws

FD25 FD30 FD35 FD50 FD80

- When mounting the track on the upper frame, if the mounting screw heads protrude, they will come into contact with the soft close components and prevent normal functionality.

Mounting Screws

Series	Included	Screw Size
FD25, FD30	–	Cross-recessed flathead tapping screws 3.5×20 (Recommended)
FD25·FD30 door pocket, FD27EV	○	Cross-recessed flathead tapping screws 3.5×20
FD35	–	Cross-recessed flathead tapping screws 3.5×25 (Recommended)
FD35 door pocket	○	Cross-recessed flathead tapping screws 3.5×25
FD50	○	Flat fillister head tapping screws 3.8×40
FD50 door pocket	○	Cross-recessed flathead tapping screws 4×40
FD80	○	Cross-recessed panhead tapping screws 5×40
FD80 door pocket	○	Cross-recessed flathead tapping screws 5×40



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

3. Precautions for cleaning the inside of the upper track

FD25 FD30 FD35 FD50 FD80

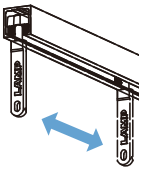
- Make sure to clear cutting scraps from the track.
  This is important for normal door function and preventing excessive roller noise.
  A cleaner for upper track (P.639, P.642, P.668, P.696, P.702) is available as an option.

FD30-TRC Cleaner for Upper Track
FD25 FD30 FD35



FD50-TRC Cleaner for Upper Track
FD50 FD80

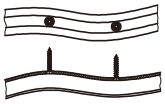




4. Precautions for mounting surface

FD25 FD30 FD35 FD50 FD80

- If the upper frame or ceiling are uneven or slanting when mounting the track, the track may bend vertically or horizontally, preventing normal soft closing.



Horizontal bending

Vertical bending

Precautions

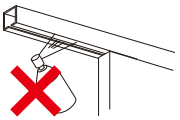
Overtightening due to the use of an electric screwdriver or impact screwdriver may damage or deform the product.
Use a manual screwdriver.



5. Do not use lubricant spray or coating

FD25 FD30 FD35 FD50 FD80

- When the roller motion is stiff, do not apply lubricant spray or coating to the roller travel surface without masking.
  Dust may adhere to the surface or the coating film and prevent sliding.

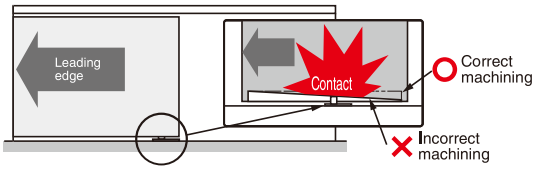


6. Correction of poor door groove machining or lower guide contact due to door tilting

FD25 FD30 FD35 FD50 FD80

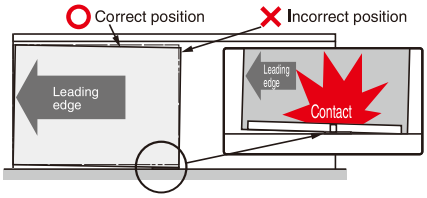
1. Lower guide contact due to poor door groove machining

- Correct the machining to adjust the door angle or align the groove horizontally with the bottom of the door, so that the lower guide does not come in contact with the groove.



2. Lower guide contact due to door tilting

- Adjust the hanging bracket height/tilt so that the lower guide does not contact the door groove.

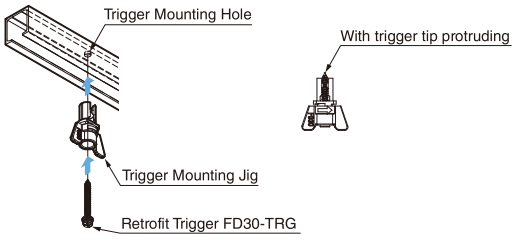


Precautions for mounting the retrofit trigger (soft close specifications only)

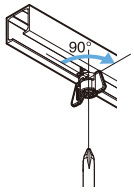
- Be sure to drill a pilot hole in the track centre before drilling trigger mounting holes.
  (mounting hole dimensions for FD25·FD30: ϕ4, FD27EV·FD35: ϕ4.5, FD50: ϕ5, FD80: ϕ5)
- Make sure to clear cutting scraps from the track.
  This is important for normal door function and preventing excessive roller noise. A track cleaner (P.639, P.642, P.668, P.696, P.702) is available as an option.
- Be sure to mount the retrofit trigger in the centre of the upper track.
  If insufficiently tightened, tilted, or floating, it will make contact with the soft close function and prevent normal operation.
- The retrofit trigger and trigger mounting jig are included with the Two-Way Damper and also available for individual purchase.
  (P.632, P.636, P.639, P.642, P.660, P.664, P.668, P.690, P.702, P.722, P.742, P.743)

FD25 (Excluding Door pocket supported) FD30

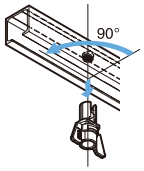
1 Set the retrofit trigger on the jig and press against the track at the trigger mounting hole position.

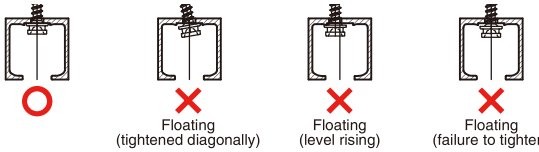


2 Rotate the mounting jig 90° and retain it at that position while screwing the trigger in to fix in place.



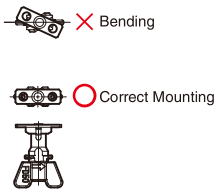
3 Remove the mounting jig.



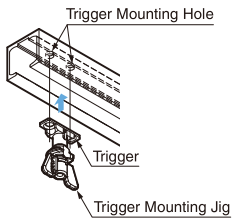


FD25 (Door pocket supported) FD27EV FD35 FD50 FD80

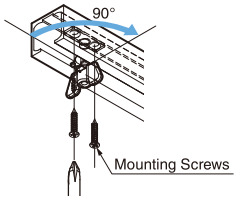
1 Set the retrofit trigger on the jig.



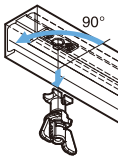
2 Align the trigger with the mounting hole.

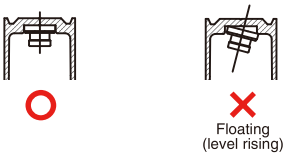


3 Rotate the mounting jig 90° and retain it at that position while screwing the trigger in to fix in place.



4 Remove the mounting jig.





This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

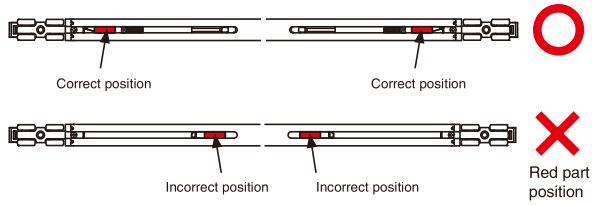
FD25 FD30 FD35 FD50 FD80

Precautions for Mounting the Soft Close Function

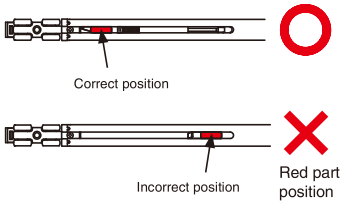
1. Check that the position of the red plastic part is correct.

If the position is wrong, check the included mounting instruction manual before assembling the product into the track and move it to the correct position.

Two-Way Damper

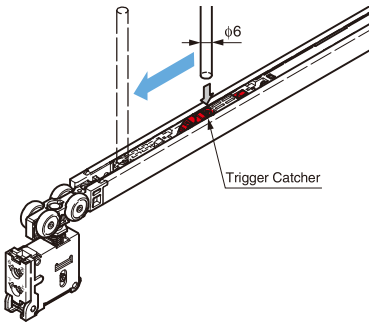


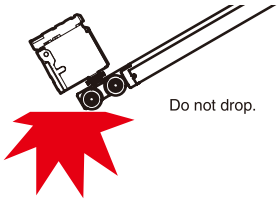
Single Damper



2. Use caution to prevent falling parts.

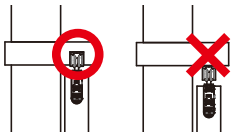
When the position is incorrect, use a hard round ϕ6 bar or similar and insert into the trigger catcher and slide it to the correct set position.





Precautions for when door does not come into contact with side jambs

When the door does not come into contact with the side jambs (outset), be sure to use with the embedded upper track.
Use with surface mounting may cause the door to come out of the track and fall. Also, see 1 and 2 below.

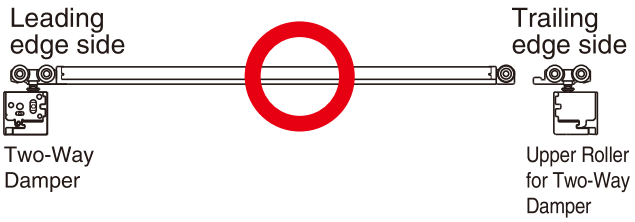


FD30, FD35, FD50 has an upper track for outset.
See listed page for details. (P.663, P.693, P.725)

1. Selecting closer parts

FD25 FD30 FD35 FD50 FD80

- Use the Two-Way Damper.
  Do not use other than as indicated at right.
- Use the Two-Way Damper even when using the outset specification track.

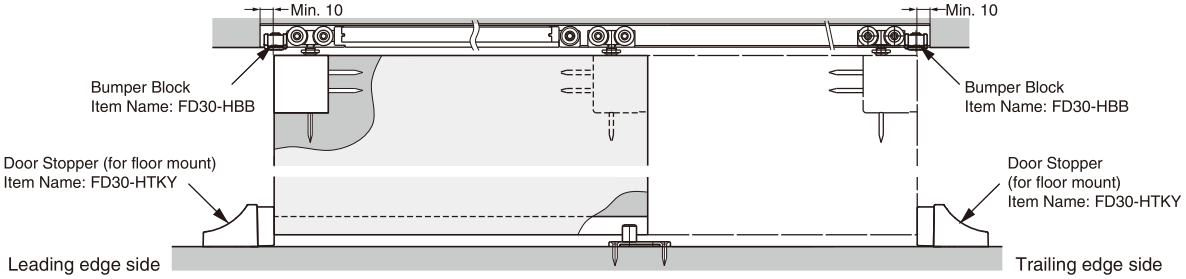


2. Selecting door stopper parts

FD25 FD30 FD80

- In addition to the required parts, be sure to use a bumper block (a stopper block for FD80) at the top and a door stopper (for floor mounting) on the floor.
- To mount the bumper block, set the track longer than the door edge. (FD80 uses stopper block)

FD30 Series Example

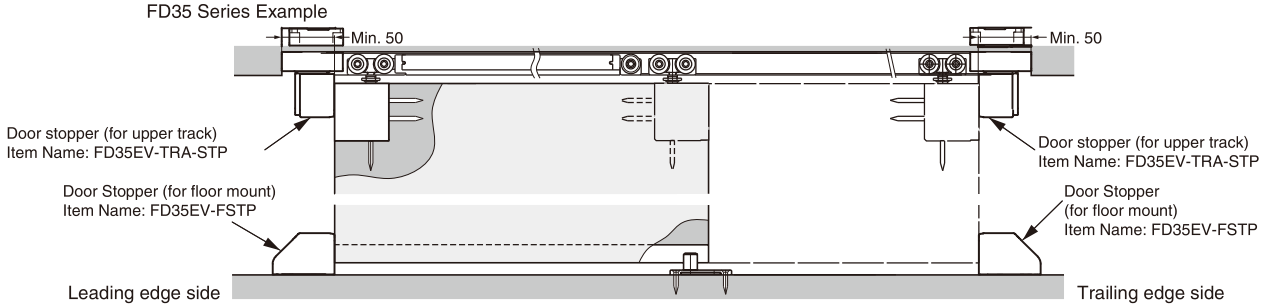


This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

FD35 FD50

- In addition to the required parts, be sure to use a door stopper (for upper track) or a bumper block (FD35) or stopper block (FD50) at the top, a door stopper (for floor mounting) on the floor. *For public facilities (elder care/health care facilities, shops, hotels, etc.), use a door stopper (for upper track).
- To mount a door stopper (for upper track), set the track longer than the door edge.

FD35 Series Example

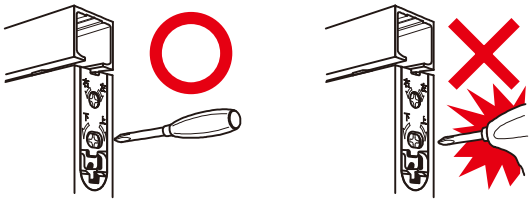


FD25 FD30 FD35 FD50

Precautions for Adjusting Upper Roller

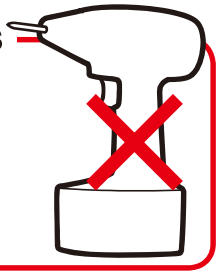
1. Adjusting upper roller

- To adjust the upper roller vertically or horizontally, be sure to use a manual screwdriver, and never tighten beyond the stop point.



Precautions

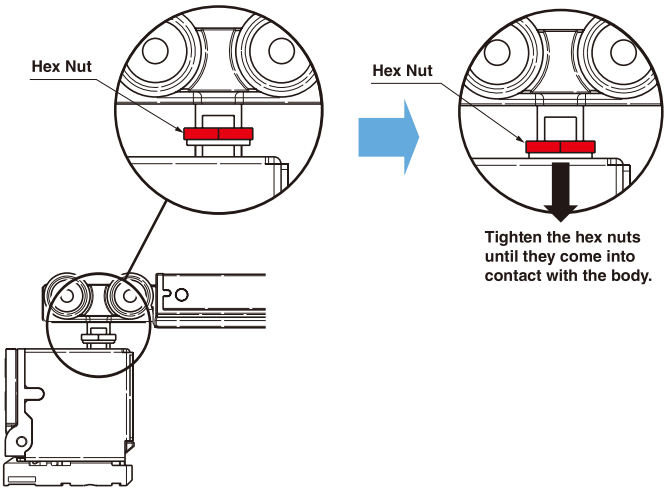
Overtightening due to the use of an electric screwdriver or impact screwdriver may damage or deform the product. Use a manual screwdriver.



2. Bounce prevention nut tightening after upper roller adjustment

- For the Two-Way Damper, Single Damper, and Two-Way Damper compatible upper roller, after vertical/horizontal adjustment, be sure to use a nominal 12 spanner (P.639, optional) to tighten the hex nuts until they come into contact with the body.

*Forgetting to tighten the nuts may lead to malfunction or damage.



FD30 FD35 FD50 FD80

Precautions for Door Pocket Specifications

- For door pocket specifications, use a dedicated upper track for door pocket. (P.635, P.663, P.725, P.744)

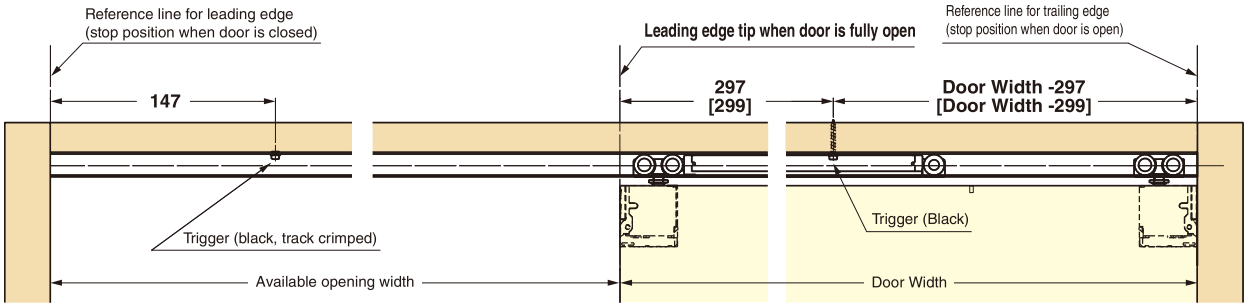
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

FD30 FD35 FD50 FD80

Instructions on calculating the trigger mounting position

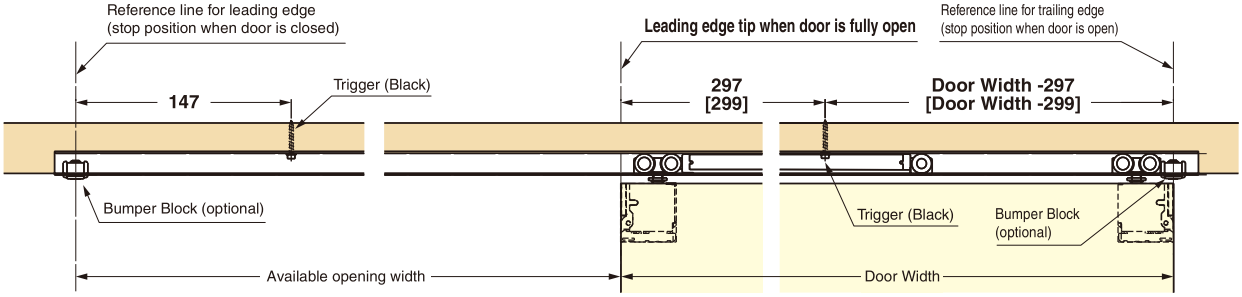
The mounting position for the trailing edge side trigger of the Two-Way Damper can be calculated from the trailing edge via the "Installation Example" on each product page. It can also be calculated from the leading edge as shown below:

- **With vertical frame**
  Precautions for the FD25 Two-Way Damper (P.618, P.624~P.631)
  Specifications: The trigger mounting position varies for the FD30 and FD35.



[ ] indicates the dimensions when the upper roller cover cap (P.636) (optional) is attached.

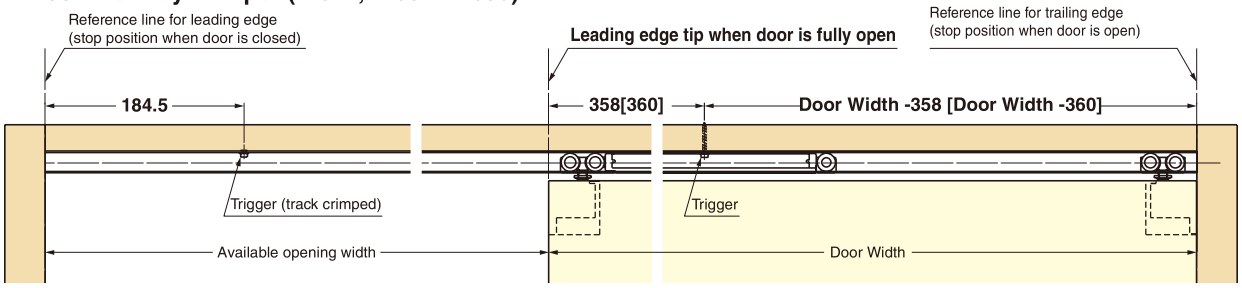
- **With no vertical frame (stops using door stopper and bumper block)**
  Precautions for the FD25 Two-Way Damper (P.618, P.624~P.631)
  Specifications: The trigger mounting position varies for the FD30 and FD35.



[ ] indicates the dimensions when the upper roller cover cap (P.636) (optional) is attached.

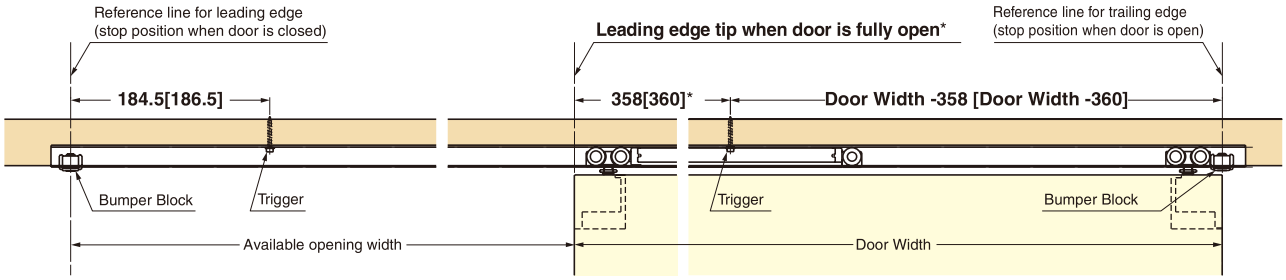
*When setting a sliding margin, calculate the trigger position with the leading edge with door fully open as reference.

- **With vertical frame**
  FD30 Two-Way Damper (P.644, P.652~P.659)



[ ] indicates the dimensions when the upper roller cover cap (optional) is attached. (P.664)

- **Special specifications below With no vertical frame (stops using door stopper and bumper block)**
  FD30, Two-Way Damper (P.644, P.652~P.659) Specifications: The trigger mounting position varies for the FD35.

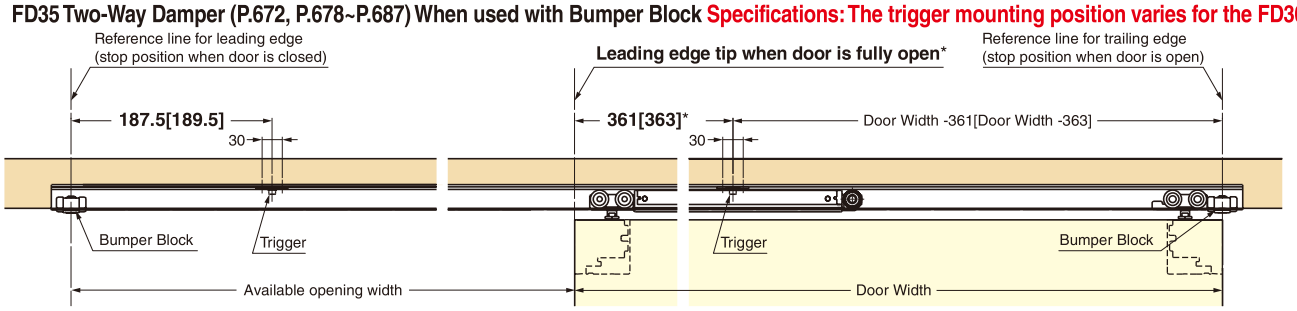


[ ] indicates the dimensions when the upper roller cover cap (optional) is attached. (P.664)

*When setting a sliding margin, calculate the trigger position with the leading edge with door fully open as reference.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

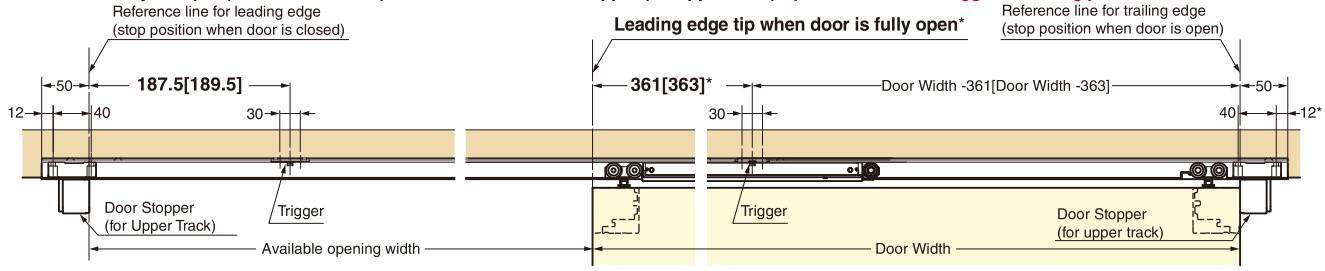
FD35 Two-Way Damper (P.672, P.678~P.687) When used with Bumper Block Specifications: The trigger mounting position varies for the FD30.



[ ]indicates the dimensions when the upper roller cover cap (optional) is attached. (P.696)

*When setting a sliding margin, calculate the trigger position with the leading edge with door fully open as reference.

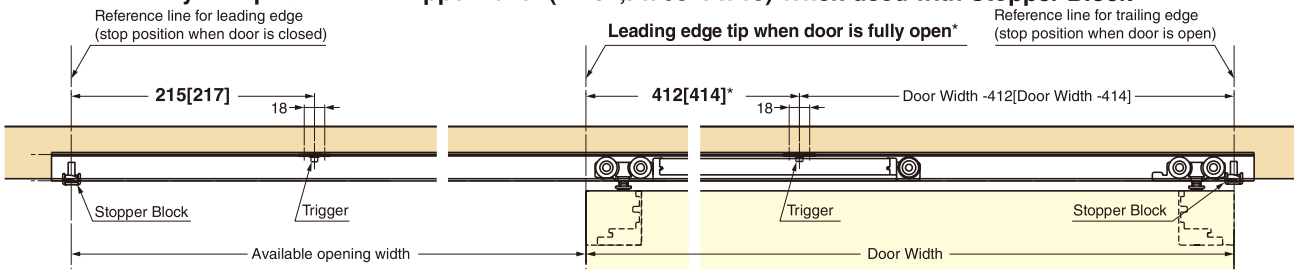
FD35 Two-Way Damper (P.672, P.678~P.687) When used with Door Stopper (for upper track) Specifications: The trigger mounting position varies for the FD35.



[ ]indicates the dimensions when the upper roller cover cap (optional) is attached. (P.696)

*When setting a sliding margin, calculate the trigger and door stopper (for upper track) position with the leading edge tip with door fully open as reference.

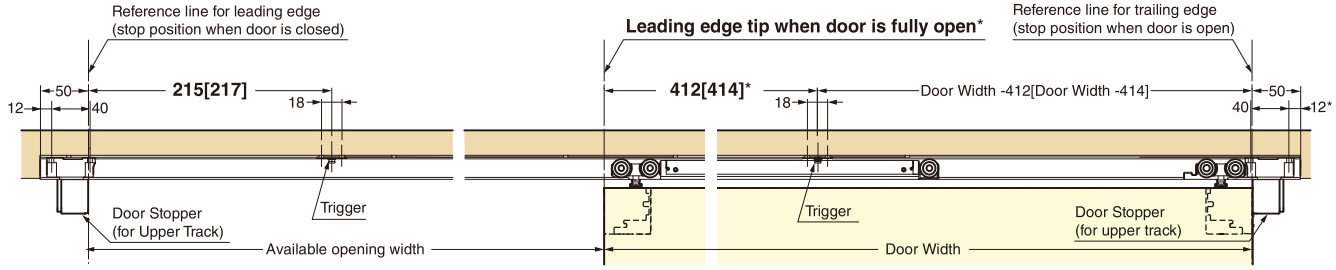
FD50 Two-Way Damper/recessed upper roller (P.704,P.708~P.715) When used with Stopper Block



[ ]indicates the dimensions when the upper roller cover cap (optional) is attached. (P.728)

*When setting a sliding margin, calculate the trigger position with the leading edge with door fully open as reference.

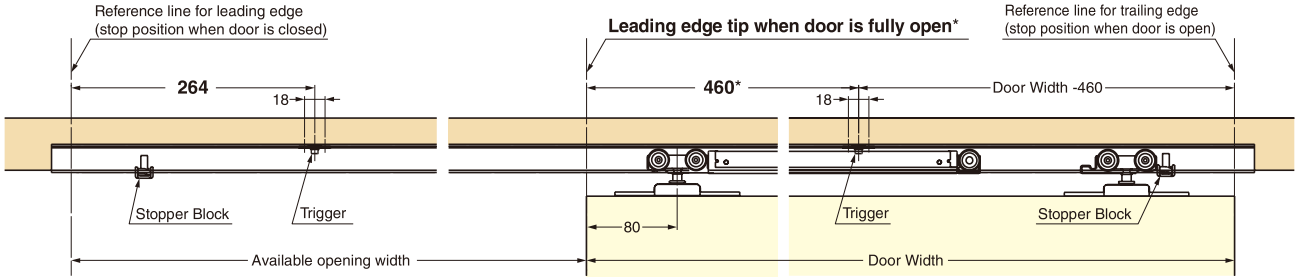
FD50 Two-Way Damper/recessed upper roller (P.704, P.708~P.715) When used with Door Stopper (for upper track)



[ ]indicates the dimensions when the upper roller cover cap (optional) is attached. (P.728)

*When setting a sliding margin, calculate the trigger and door stopper (for upper track) position with the leading edge tip with door fully open as reference.

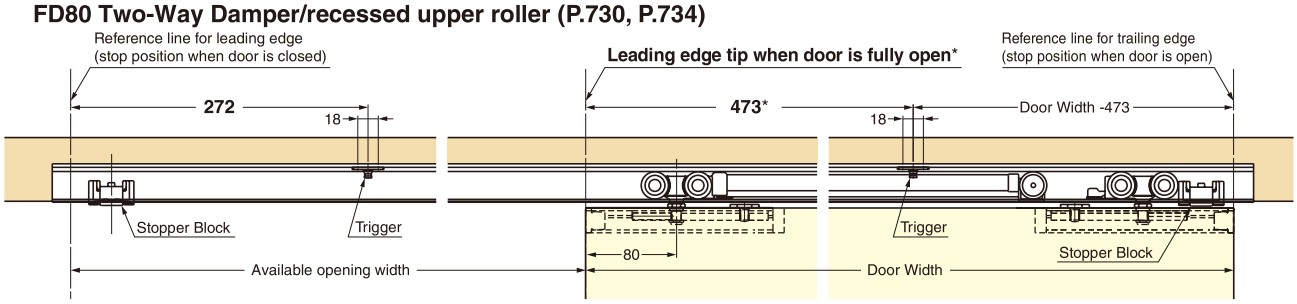
FD50 Two-Way Damper/surface mounted upper roller (P.716~P.721)



*When setting a sliding margin, calculate the trigger position with the leading edge with door fully open as reference.

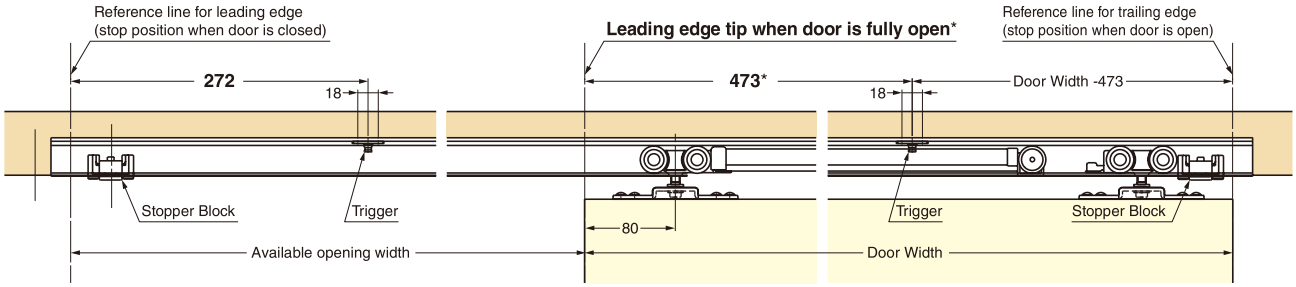
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

FD80 Two-Way Damper/recessed upper roller (P.730, P.734)



*When setting a sliding margin, calculate the trigger position with the leading edge with door fully open as reference.

FD80 Two-Way Damper/surface mounted upper roller (P.736, P.740)



*When setting a sliding margin, calculate the trigger position with the leading edge with door fully open as reference.

Precautions for Magnetic Lower Guide FD30-MG (P.669)

*The magnetic lower guide FD30-MG is an optional part for FD30SP, FD30EX (P.644~) and FDPN40P (P.586~P.593).

- High-power neodymium magnets are used. If using a pacemaker, keep at least 30 cm away from the door bottom leading edge side.
- Pacemakers may be affected when in close proximity. In regards to the effects on other medical electronic devices, check with each manufacturer or dealer for details.
- Vacuum around the guide pin periodically to prevent improper operation due to dust or debris.
- If liquid such as juice is spilled over the guide pin, causing improper operation, pull up the guide pin, wipe it with a wet cloth, and dry it fully.
- When cleaning the floor with wax or solvent, keep the substance out of the guide pin. It may harden and lead to improper operation.
- If the magnet guide strike contact face is contaminated, remove foreign material. Otherwise, malfunctions may result.
- This product is dedicated for flooring at least 12 mm thick.
- Structurally, the guide pin may produce noise when the door moves.
- If the guide pin is protruding, be sure to push it back manually. Otherwise, injuries may result.
- Do not open or close the door with excessive force or impact. Otherwise, the door or hardware may be damaged or injuries may result.
- Use a recessed handle for the door. Do not use a bar handle or other types of protruding door handles.
- When removing the door, the guide pin should be fully removed from the door. Otherwise, the door or hardware may be damaged or injuries may result.
- This product is designed for general residential use. Do not use in public facilities, etc.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SLIDING DOOR ROLLER FDS, FES, FMS

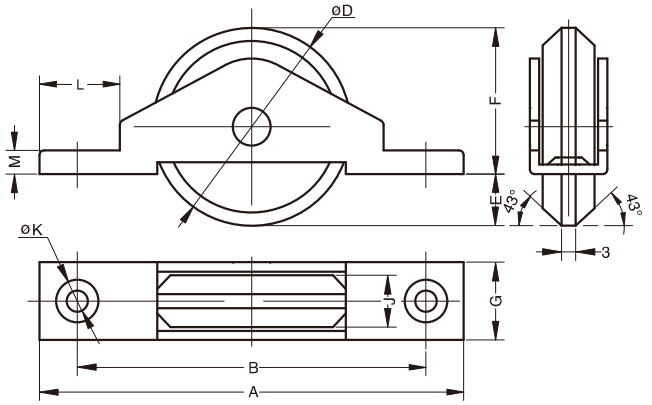
Latest Info



- Smooth and quiet movement with plastic rollers.
- FES and FMS are equipped with ball bearings providing easy operating even with heavy load.

SUS

Remarks
- MOQ upon request.



Part Name	Series	Material	Finish
Bracket, Pin	FDS, FES, FMS	Stainless Steel(SUS304)	Plain
Wheel	FDS, FES	Polyacetal	White
	FMS	MC Nylon	Blue

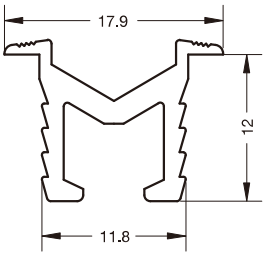
Item Code	Item Name	A	B	D	E	F	G	J	K	L	M	Load Capacity/2 pcs	Weight	Box	Carton
200-139-150	FDS-0259	60	50	25	5	20	11	7	3	10	1.2	15 kg	15 g	20 pcs	200 pcs
200-139-151	FDS-0339	74	63	33	5.5	27.5	13	8	4	12	1.5	25 kg	25 g	12 pcs	120 pcs
200-139-152	FES-0339	68	57	33	7	26	13	9	4	14	5	50 kg	35 g		
200-139-153	FES-0429	92	76	42	6	36	14	9	4	18	5	70 kg	60 g	4 pcs	40 pcs
200-139-154	FMS-0509	110	85	50	8	42	17	11	5	19	5	100 kg	95 g		

BOTTOM RAIL FOR FDS, FES, FMS AV

Latest Info

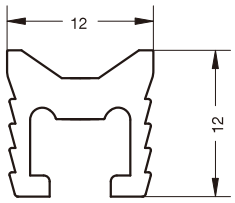


Remarks
- MOQ upon request.



AVED-12S/1820

Applicable Rollers:
FDS-0259, FDS-0339
FES-0339, FES-0429



AVF-12S/1820

Applicable Rollers:
FDS-0259, FDS-0339
FES-0339, FES-0429
FMS-0509

Item Code	Item Name	Length	Weight	Box	Carton
250-129-781	AVF-12S/1820	1820	256 g	1 pc	10 pcs
250-129-780	AVED-12S/1820		309 g		

Material	Finish
Aluminium	Anodized

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP SELF CLOSING SLIDE DOOR SYSTEM LM-80

Latest Info



Door Weight	30-80 kg/Door
Door Thickness	28-40 mm
Door Width	700-1200 mm
Door Travel	Max. 1100 mm (In Case of Door Width 1200 mm)

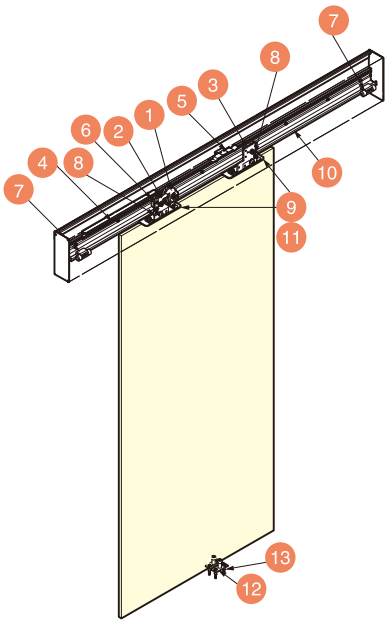
- Great solution for toilet areas and general purpose rooms.
- Self closing slide door system. No electricity required.
- Built-in damper makes closing soft and quiet, preventing slamming or injury.
- Non-handed.
- Door has smooth operation and feels light, making it easy for young children and the elderly to use the door.
- Door catch holds door in fully open position.
- Damping speed adjustable for ideal soft-closing.

SCREW

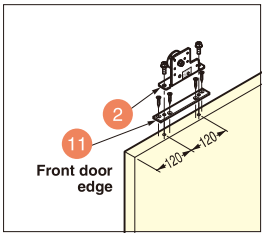
Remarks

- Please secure enough clearance between door and rail cover.
- Rail cover for door of Max. 32 mm thickness is available upon request.

Feature

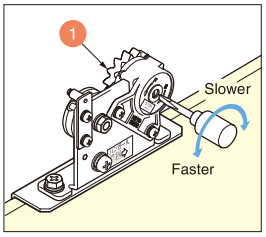


Installation of Roller

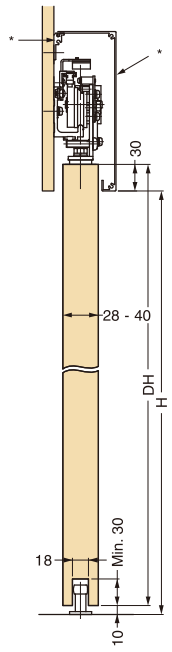


Roller brackets for solid phenolic panel and wooden door included.

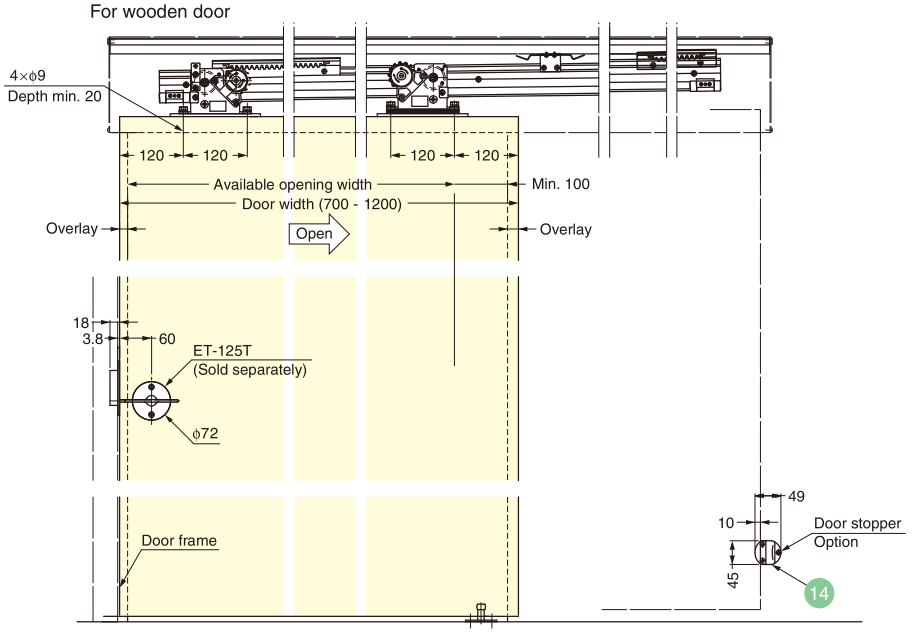
Adjustment of Closing Speed



*Not included.



For wooden door



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

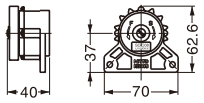
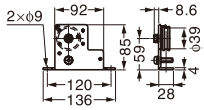
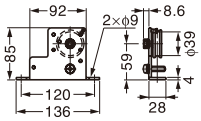
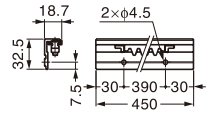
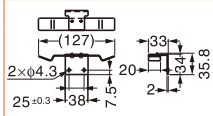
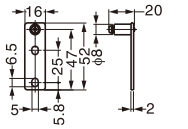
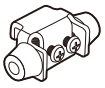
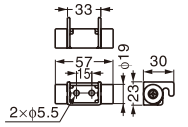
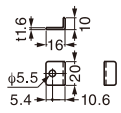
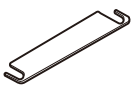
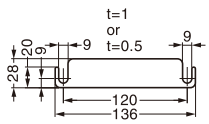
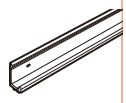
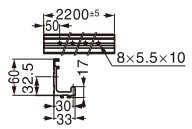
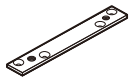
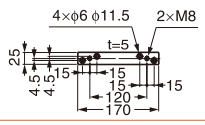
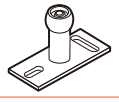
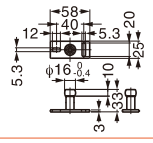
How to Order LM-80

• Required Parts ..... **Part Set (per door)**

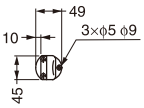
Parts Set (Per Door) — Required Parts

Item Code	Item Name
250-010-613	LM-80

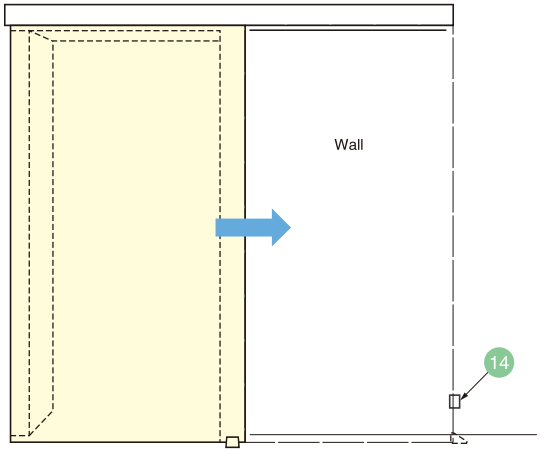
Parts Included

No.	Qty	Part Name	Dimensions	Description
1	1 pc	Damper 		**Item Code: 280-188-561** **Item Name: SC-C08** • Material POM • Colour Black
2	1 pc	Roller A 		• Material Steel / POM • Finish Yellow Zinc Chromate / White
3	1 pc	Roller B 		• Material Steel / POM • Finish Yellow Zinc Chromate / White
4	1 set	Gear Rack 		**Item Code: 280-188-560** **Item Name: SC-C07** • Material Aluminium Alloy • Finish Plain
5	1 pc	Spring 		• Material Steel / Spring Steel • Finish Yellow Zinc Chromate / Plain
6	1 pc	Stopper Roller 		• Material Steel • Finish Chromate
7	2 pcs	Door Stopper 		• Material Stainless Steel
8	2 pcs	Stopper Plate 		• Material Steel • Finish Chromate
9	t=1 : 15 pcs t=0.5 : 1 pc	Height Adjustment Spacer 		• Material Steel • Finish Plain
10	1 pc	Upper Track 		• Material Aluminium Alloy • Finish Anodized
11	2 pcs	Roller Bracket 		• Material Steel • Finish Chromate
12	1 pc	Bottom Roller Guide 		• Material Stainless Steel / Polyacetal (POM)
13	2 pcs	Anchor 6×30 	-	• Material Polyamide (PA) • Colour Grey

Optional Parts

No.	Item Code	Part Name	Dimensions	Description
14	280-189-066 162-811	Door Stopper 		• Material Zinc Alloy (ZDC) & Rubber • Finish Satin Chrome

Installation of Door Stopper



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

LAMP SELF CLOSING SLIDE DOOR SYSTEM LM-80G

Latest Info



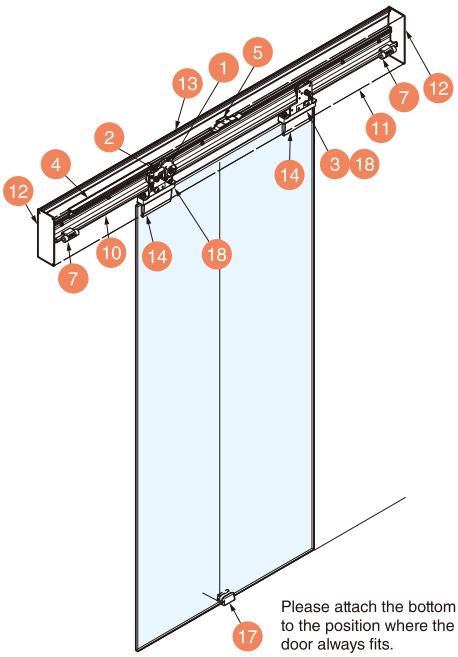
Door Weight	30-80 kg/Door
Door Thickness	8-12 mm
Door Width	700-1200 mm
Door Travel	Max. 1100 mm (In Case of Door Width 1200 mm)

- Self closing slide door system for glass. No electricity required.
- Built-in damper makes closing soft and quiet, preventing slamming or injury.
- Non-handed.
- Door has smooth operation and feels light, making it easy for young children and the elderly to use the door.
- Door catch holds door in fully open position.
- No pre-drilled holes on glass needed for installation.
- Damping speed adjustable for ideal soft-closing.

SCREW

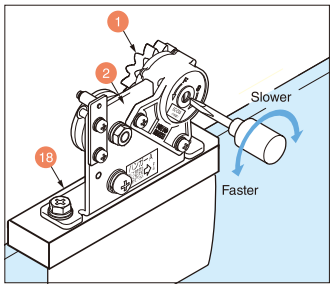
Remarks

- Attach it to a frame that has the strength to withstand the impact when the door is opened and closed, and can handle the door weight. A frame without strength not only significantly reduces the movement of the door, but it is also considered very dangerous as it could cause things like the rail 10 to fall off.
- Please always use the door stopper hardware 7 and the door stopper 19 attached to the bottom together.
- Tighten the hexagon head bolt with hole for the glass bracket 14, tightening every other one a little at a time, and finally tighten to a torque value of 7 to 8 N·m. (Please provide a hexagonal bar wrench yourself.)
- When choosing this product, please be sure to read the “Tempered Glass” mark guide.

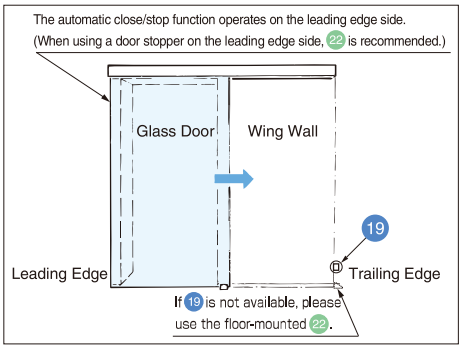


Please attach the bottom guide to the position where the glass door always fits.

Speed Adjustment

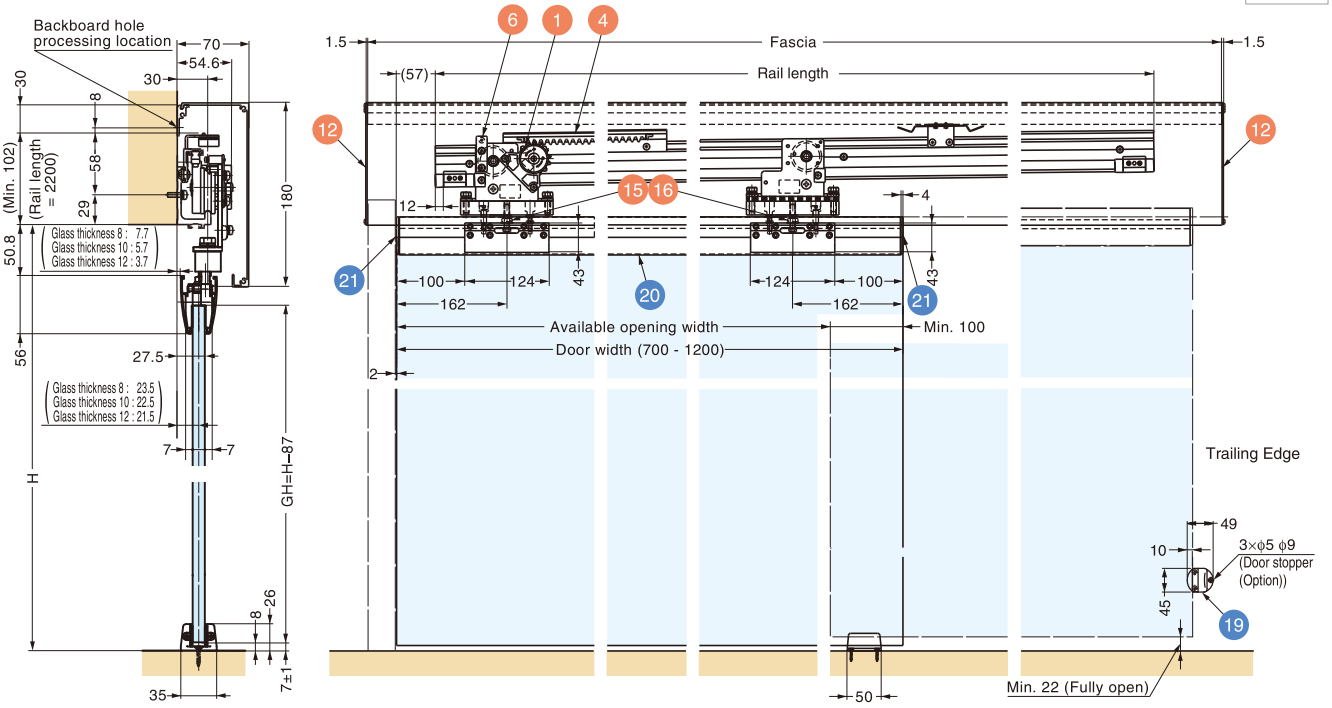


Installation of door stopper



The automatic close/stop function operates on the leading edge side. (When using a door stopper on the leading edge side, 22 is recommended.)

Feature



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

How to Order the LM-80G

- Required Parts ..... Parts set (per 1 door) + Door Stopper + Bracket Cover End Cap Set
- Please order according to the application (please refer to the 'Description' column for the application)..... Optional Parts

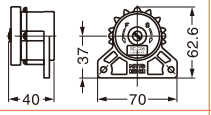
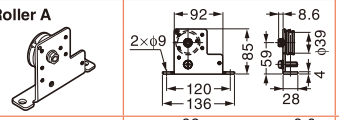
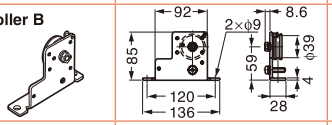
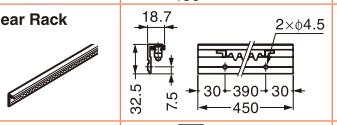
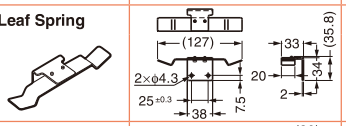
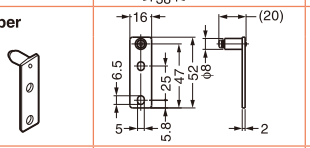
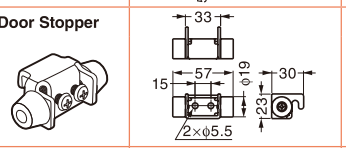
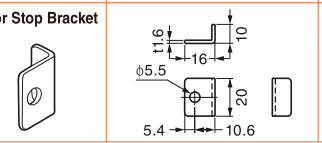
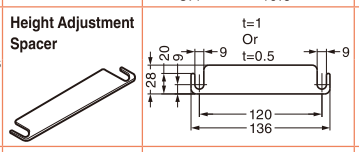
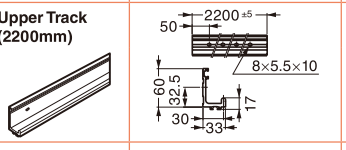
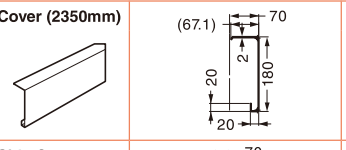
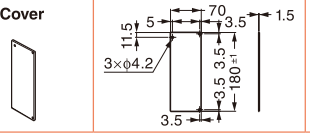
Parts Set (per door)

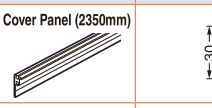
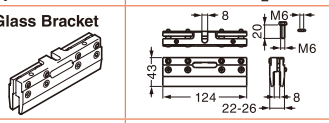
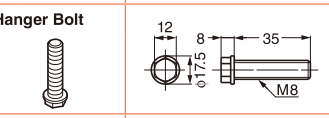
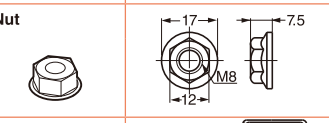
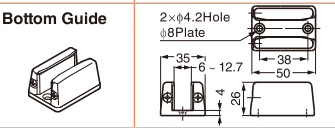
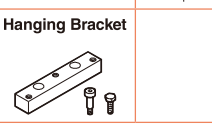
Required Parts

① And ④ By adding not only to the Door Leading Edge but also to the Door Trailing Edge, it is possible to softly close the door even when it is opened.

Set Name	Item code	Item Name
Part Set	250-017-580	LM-80G

Parts Included

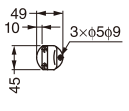
No.	Qty	Parts Included	Dimensions	Description
1	1 pc	Damper		**Item Code: 280-188-561** **Item Name: SC-C08** • Material Polyacetal (POM) • Colour Black
2	1 pc	Roller A		• Material Steel/Polyacetal(POM) • Finish/Colour Coloured Chromate(Trivalent) /White
3	1 pc	Roller B		• Material Steel/Polyacetal(POM) • Finish/Colour Coloured Chromate(Trivalent) /White
4	1 pc	Gear Rack		**Item Code: 280-188-560** **Item Name: SC-C07** • Material Aluminium Alloy • Finish Plain
5	1 pc	Leaf Spring		• Material Steel/Spring Steel • Finish Coloured Chromate(Trivalent) /Plain
6	1 pc	Stopper		• Material Steel • Finish Coloured Chromate(Trivalent) Plain
7	2pcs	Door Stopper		• Material Stainless Steel
8	2pcs	Door Stop Bracket		• Material Steel • Finish Coloured Chromate(Trivalent) Plain
9	t=1: 15 pcs t=0.5: 1 pc	Height Adjustment Spacer		• Material Steel • Finish Plain
10	1pc	Upper Track (2200mm)		• Material Aluminium Alloy • Finish Anodized
11	1pc	Cover (2350mm)		• Material Aluminium Alloy • Finish Anodized
12	2pcs	Side Cover		• Material Aluminium Alloy • Finish Anodized

No.	Qty	Parts Included	Dimensions	Description
13	1pc	Cover Panel (2350mm)		• Material Aluminium Alloy • Finish Anodized
14	2pcs	Glass Bracket		**Item Code: 250-026-559** **Item Name: 800-0012-031** • Material Aluminium Alloy • Finish Plain
15	2pcs	Hanger Bolt		**Item Code: 250-018-564** **Item Name: HFB8-35** • Material Steel • Finish Chromate(Trivalent)
16	2pcs	Nut		**Item Code: 250-018-670** **Item Name: FNS8** • Material Steel • Finish Chromate(Trivalent)
17	1 pc	Bottom Guide		**Item Code: 250-120-617** **Item Name: 57-3030-071** • Material Zinc Alloy(ZDC) • Finish Matt Chrome Plating
18	2pcs	Hanging Bracket		–	**Item Code: 250-014-969** **Item Name: LM-80GB** • Material Aluminium Alloy • Finish Plain

Door Stopper

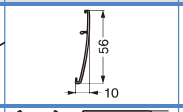
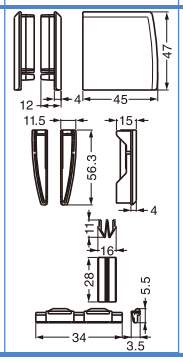
Required Parts

Please use on the trailing edge side.

No.	Item code	Parts	Dimensions	Description
19	280-189-066 Item Name 162-811	Mount Door Stopper		• Material Zinc Alloy(ZDC)/Rubber • Finish Satin Chrome Plating Countersunk Head Wood Screw 4.1x32, 3 pcs

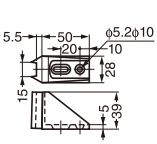
Bracket Cover End Cap Set

Required Parts

No.	Item code	Parts	Dimensions	Description
20	250-120-817 Item Name 57-3039-250	Bracket Cover (2500mm)		• Material Aluminium Alloy • Finish Anodized
21	250-120-799 Item Name 57-3061-071	End Cap Set [1 set for both ends] This part is not use. One set 8pcs 2pcs 2pcs 4pcs 1 pc		• Material Polyacetal (POM) • Colour Black/ Light Grey

Optional Parts

Please place your order according to your application. Please refer to the "Description" section below for the application.

No.	Item code	Parts	Dimensions	Description
22	250-120-720 Item Name 20773	Door Stopper (Floor Mounted)		• Material Zinc Alloy(ZDC)/ Synthetic Rubber • Finish/Colour Dull Chrome Plating/Light Grey Application 19 If it cannot be used, install it on the floor.

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELF CLOSING SLIDE DOOR SYSTEM SRS

Latest Info

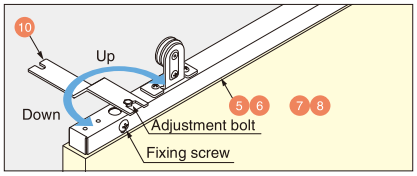


Door Weight	Max. 30 kg/Door
Door Thickness	28.4-36 mm
Door Width	810 mm or 860 mm

- Self closing door system.
- Equipped with damper for smooth and soft closing.

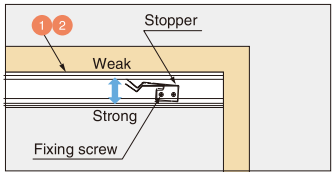
SCREW

Adjustment of Door Height & Gradient



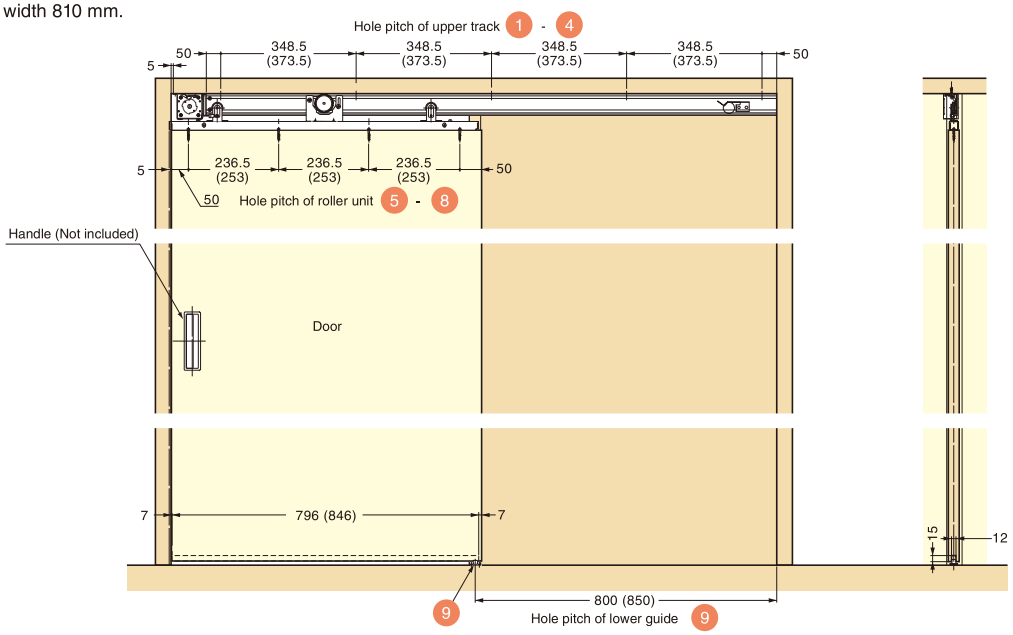
Adjustable height: -6 mm

Adjustment of Retaining Force



Installation

( ): Dimensions for door width 810 mm.



Parts Set (Per Door)

Required Parts

Please refer to "Qty [a] - [d] "for parts included in each set.

	Item Code	Item Name	Description
a	250-120-073	SRS-810 (R)	R Type for Door Width 810 mm
b	250-120-588	SRS-810 (L)	L Type for Door Width 810 mm
c	250-120-072	SRS-860 (R)	R Type for Door Width 860 mm
d	250-120-589	SRS-860 (L)	L Type for Door Width 860 mm

Parts Included

No.	Qty a	Qty b	Qty c	Qty d	Part Name	Description
1	1 pc	–	–	–	Upper Track - R Type for Door Width 810 mm	• Material Aluminium Alloy • Finish Anodized Silver
2	–	1 pc	–	–	Upper Track - L Type for Door Width 810 mm	
3	–	–	1 pc	–	Upper Track - R Type for Door Width 860 mm	• Material Aluminium Alloy • Finish Anodized Silver

No.	Qty a	Qty b	Qty c	Qty d	Part Name	Description
4	–	–	–	1 pc	Upper Track - L Type for Door Width 860 mm	• Material Aluminium Alloy • Finish Anodized Silver
5	1 pc	–	–	–	Roller Unit A - R Type for Door Width 810 mm	• Material Steel • Colour Black
6	–	1 pc	–	–	Roller Unit A - L Type for Door Width 810 mm	• Material Steel • Colour Black
7	–	–	1 pc	–	Roller Unit B - R Type for Door Width 860 mm	• Material Steel • Colour Black
8	–	–	–	1 pc	Roller Unit B - L Type for Door Width 860 mm	
9	1 pc	1 pc	1 pc	1 pc	Bottom Guide	• Material Polyamide (PA) • Finish Natural
10	1 pc	1 pc	1 pc	1 pc	Adjuster	• Material Steel • Finish Yellow Zinc Chromate

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELF CLOSING SLIDE DOOR SYSTEM SRW

Latest Info

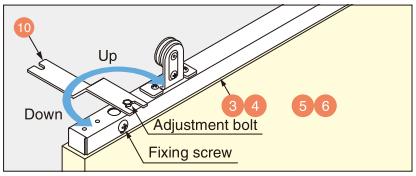


Door Weight	Max. 30 kg/Door
Door Thickness	28.4-30 mm
Door Width	550 mm

- Self closing door system.
- Equipped with damper for smooth and soft closing, eliminates slamming.
- Wider opening creates more space.

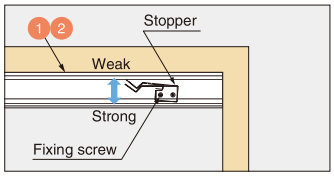
SCREW

Adjustment of Door Height & Gradient

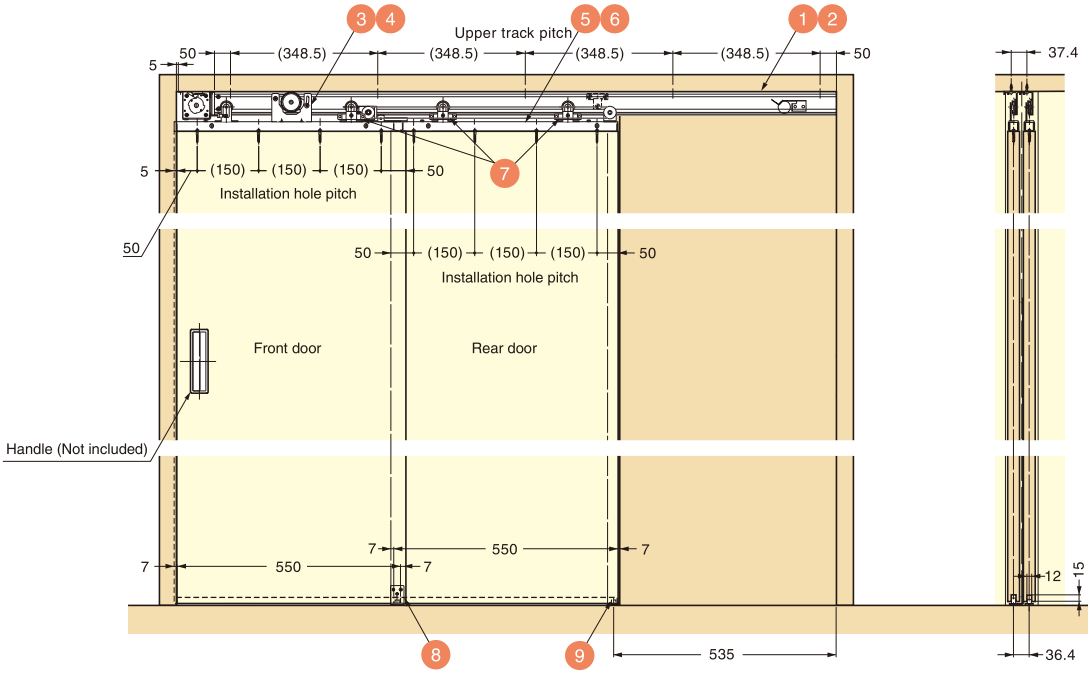


Adjustable height: -6 mm

Adjustment of Retaining Force



Installation



Parts Set (Per 2 Doors)

Required Parts

Please refer to "Qty [a] & [b] "for parts included in each set.

	Item Code	Item Name	Description
[a]	250-120-074	SRW-550 (R)	R Type
[b]	250-120-587	SRW-550 (L)	L Type

Parts Included

No.	Qty [a]	Qty [b]	Part Name	Description
1	1 pc	–	Upper Track - R Type	• Material Aluminium Alloy • Finish Anodized Silver
2	–	1 pc	Upper Track - L Type	• Material Aluminium Alloy • Finish Anodized Silver
3	1 pc	–	Roller Unit A - R Type	• Material Steel • Colour Black
4	–	1 pc	Roller Unit A - L Type	• Material Steel • Colour Black
5	1 pc	–	Roller Unit B - R Type	• Material Steel • Colour Black
6	–	1 pc	Roller Unit B - L Type	• Material Steel • Colour Black
7	3 pcs	3 pcs	Supporting Roller	• Material Steel • Finish Plain
8	1 pc	1 pc	Bottom Guide	• Material Steel • Finish Plain
9	1 pc	1 pc	Bottom Roller Guide	• Material Polyamide (PA) • Finish Natural
10	1 pc	1 pc	Adjuster	• Material Steel

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

SELECTION GUIDE
LATERAL OPENING DOOR
HES CONCEALED HINGES
SWING DOOR
DOOR DAMPERS
DOOR STOPPERS
STACKABLE PARTITION DOOR
SLIDING DOOR

Discover What Sugatsune's Website Has to Offer!

sugatsune global Search

Our site offers...

- Keyword Search + Product Filters
- New Product Information
- Customer Solution Case Studies
- Hardware Basics
- Installation Instructions
- CAD Data (2D, 3D)
- Product Videos
- Selection Tools

Technical Information

1364 | TEST METHODS
1366 | SURFACE TREATMENT
1367 | MATERIALS
1368 | DOOR WEIGHT TABLE

September 2024

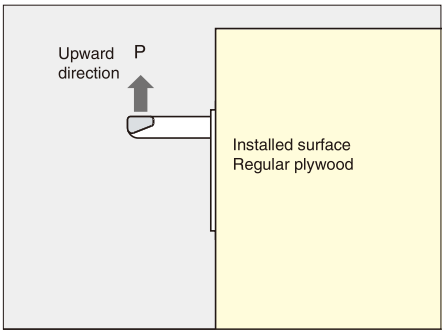
TEST METHODS

■Test Methods

In this catalogue, various values about products with TEST METHOD icon in the product specification columns are determined by the tests as described below. Values are to provide guidance for the safe use of our products.

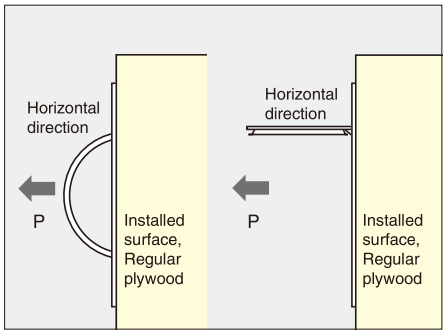
Product without TEST METHOD icon may not be based on these criteria in some cases.

TEST METHOD 1 HANDLE LOAD CAPACITY TEST



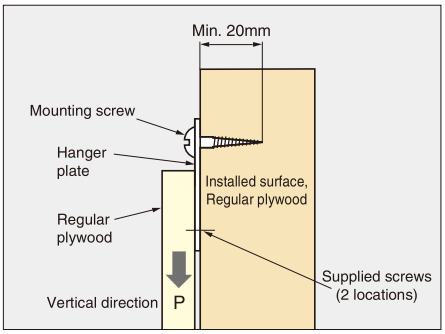
The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

TEST METHOD 2 HANDLE, PULL, HOOK LOAD CAPACITY TEST



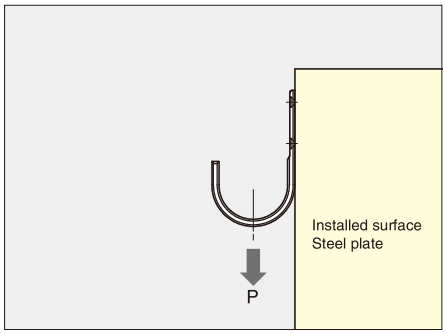
The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.
Product may fail or distort if the force is applied in a direction other than the frontal direction. Please do not use on application other than in the pull direction.

TEST METHOD 3 HANGING-LOAD CAPACITY TEST



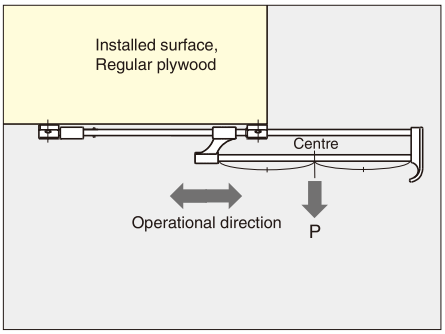
The hanging-load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure. This value will vary according to the diameter / length of the screw(s) used and strength of the installed surface.
Hanging load of 10 kgf, in case of using round head wood screw 3.8 x 25.

TEST METHOD 4 HOOK LOAD CAPACITY TEST



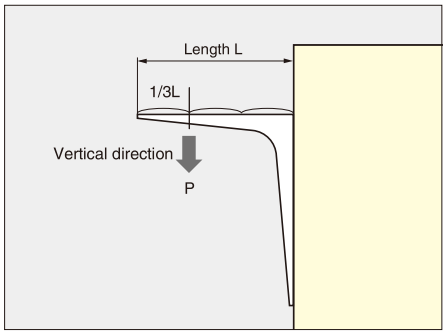
Under the conditions shown in the figure, a force (P) is gently applied to the centre of the hanging part in the vertical direction. The indicated load capacity value is about one-third of the limit load value (safety factor: 3). Therefore, this safety factor changes depending on the usage conditions. If you use it under adverse conditions, please be sure to check the actual product.

TEST METHOD 5 MAXIMUM HANGING-LOAD TEST



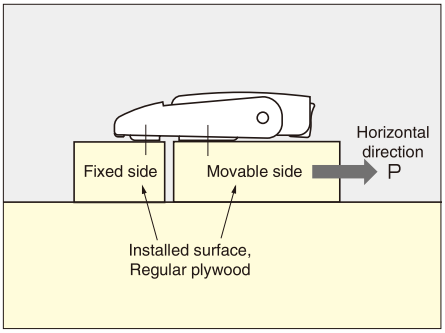
The maximum hanging-load capacity is measured when the force (P) is gently applied in the direction of the arrow and operated under the condition indicated by the figure. If the load is concentrated at the front tip of the hanger, the front tip may sag or the movement may become heavy.

TEST METHOD 6 BRACKET LOAD CAPACITY TEST



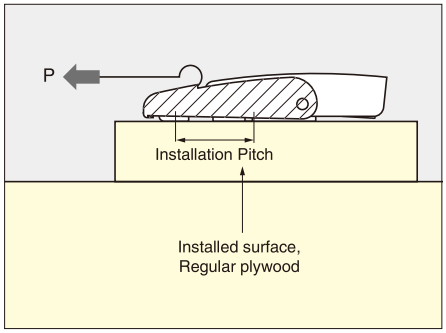
The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.
(This is based on the force (W) applied at the centre of the shelf board with its length 4/3 times longer than the shelf bracket or angle bracket.)

TEST METHOD 7 FASTENER LOAD CAPACITY TEST



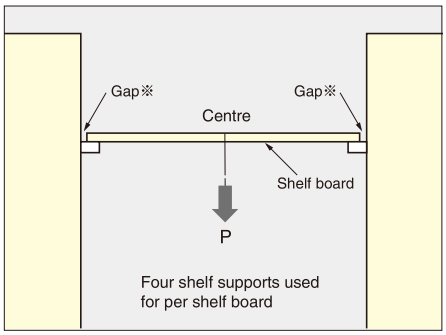
The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

TEST METHOD 8 CLAMPING FORCE TEST UNDER STANDARD INSTALLATION



The capacity of the clamping force under standard installation is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure, and when the shaded portion begins to slide.

TEST METHOD 9 DOWEL, SHELF STANDARD LOAD CAPACITY TEST



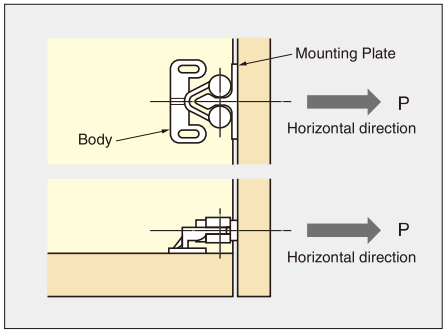
The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.
Follow the conditions below to prevent the shelf supports or shelf board from falling off.

Condition 1 The gap (※) between the shelf board and the side board shall be 1mm or less.
※ The gap between the shelf board and the shelf standard if shelf support is installed on a shelf standard.

Condition 2 Use shelf board which has sufficient durability.

Condition 3 The mounting hole processing dimension of the shelf dowel shall be less than the recommended mounting hole dimension.
(The processing dimension may vary depending on the material of the side board.

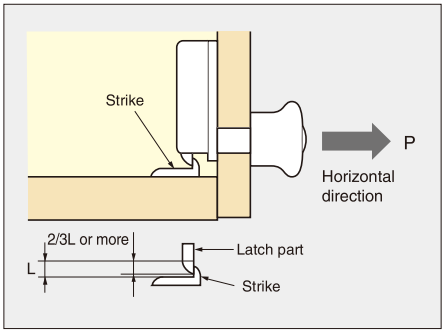
TEST METHOD 10 CATCH FORCE TEST



The catch force is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

Note: Misalignment of the mounting plate and body parts may cause the catch force to decrease or parts failure.

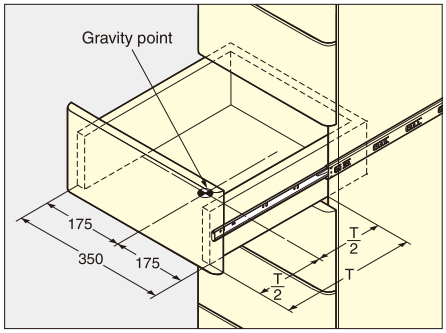
TEST METHOD 11 RETAINING FORCE TEST



The retaining force is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

Note: Latch and strike must be engaged at least 2/3L or more (see the figure).

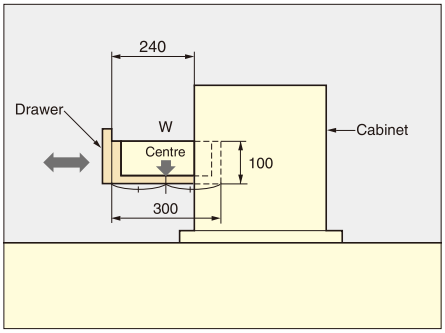
TEST METHOD 12 DRAWER SLIDE LOAD CAPACITY TEST



Calculation of slide centre of gravity

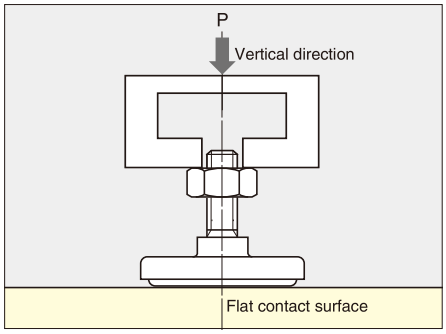
The load capacity is measured based on the condition:
- Continuous open-close: 50,000 cycles
- Speed: 10 cycles per minute
- Load is applied on the gravity point. The figure of load capacity includes drawer itself.
- Drawer width: 350mm

TEST METHOD 13 DRAWER SLIDE LOAD CAPACITY TEST



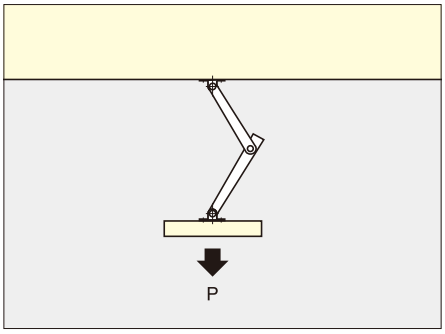
The load capacity is measured when the weight (W) is applied at the centre of the drawer under the condition indicated by the figure and the operation to pull out the drawer by 240mm is repeated. The gap between drawer and cabinet shall be 1 mm or less.

TEST METHOD 14 LEVELLING GLIDE LOAD CAPACITY TEST



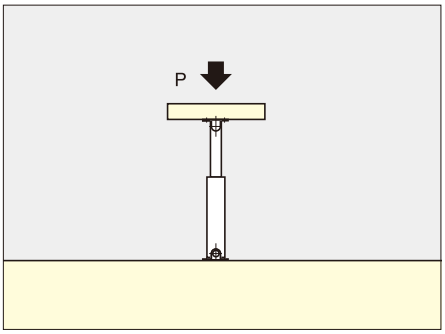
The load capacity is measured when the force (P) is applied in the direction of the arrow under the condition indicated in the figure.
Product may break or distort if the contact surface is not flat.

TEST METHOD 15 PULL LOAD TEST



The pull load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

TEST METHOD 16 COMPRESSION LOAD TEST



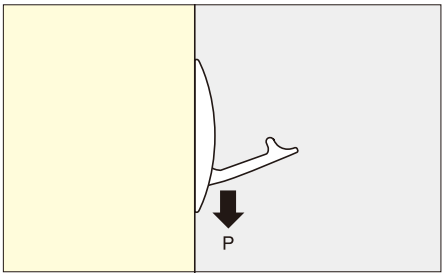
The compression load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

TEST METHOD 17 PERMISSIBLE LOAD OF FASTENER

Permissible load kgf = Ultimate Load ÷ 3

The safety factor will vary depending on the conditions of use.
When used under adverse conditions, please test the fastener in intended application.

TEST METHOD 18 HOOK LOAD CAPACITY TEST

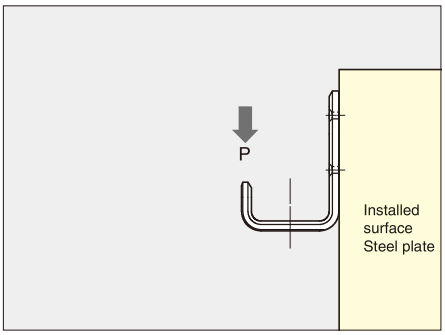


The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

Load capacity kgf = Ultimate Load ÷ 3

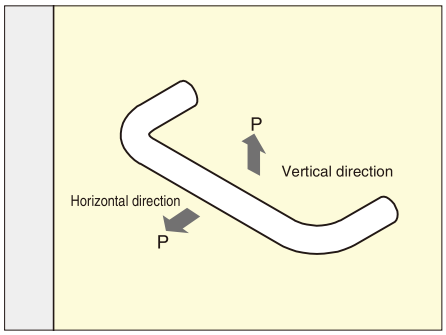
However, the safety factor will vary depending on the conditions of use.
When used under adverse conditions, please test the hook in intended application.

TEST METHOD 19 HOOK LOAD CAPACITY TEST



Under the conditions shown in the figure, a force (P) is gently applied in the vertical direction. The indicated load capacity value is one-third of the limit load value (safety factor: 3). Therefore, this safety factor changes depending on the usage conditions. If you use it under adverse conditions, please be sure to check the actual product.

TEST METHOD 20 HANDLE LOAD CAPACITY TEST



Under the conditions shown in the figure, a force (P) is gently applied in the vertical and horizontal directions. The load capacity is a value that indicates the strength of the handle itself. Install it on something with sufficient strength or reinforcement.

SURFACE TREATMENT

Finish	Characteristics
Zinc Plating	Zinc plating is commonly used on steel to prevent oxidation. Chromate is generally applied over zinc to enhance corrosion resistance.
Chromate Conversion Coating	Major coating mainly applied on parts after zinc plated or cadmium plated. Parts are immersed in a solution mainly consisting of chromic acid or heavy chromic acid to create the coating. This is used to improve corrosion resistance and appearance of metals, metal colouration, and is also used as a pre-treatment for painting. Various chromate coatings are developed such as yellow chromate (rainbow colour), clear chromate, black chromate, green chromate, etc.
Chrome Plating	Common electroplating for various industrial purposes. Reflective finish can be achieved by polishing. High hardness and good corrosion resistance along with thermal resistance, abrasion resistance and good adhesion characteristics. Generally used as final finish for various decorative parts and products due to its uniquely deep colouration.
Nickel Plating	Nickel is commonly used for decorative and anti-corrosion purpose because of its stability against air or humidity compared to iron. However, since the surface of the nickel plating will slightly discolour through exposure to air, chrome is often used after nickel to keep the finish/colour. Nickel plating has moderate hardness / corrosion-resistance and widely used on industrial application.
Alumite or Anodising (Anodic Oxidation Film Processing)	Also called the “anodic oxidation film processing”. This process thickens and toughens natural oxide layer on metal, commonly applied to aluminium for corrosion resistance and dyeing. In aluminium anodising, aluminium object serves as the anode (the positive electrode) when electrolysed in the sulfuric acid. This will create a layer of porous oxide film which has high electric insulation and abrasion resistance. The film is normally transparent when it is thin, although it becomes dull as the thickness increases.The pores produced by anodising are closed by a process called sealing, which is done by high-pressurised or boiling-hot deionised water. This process fills the pores and creates a thin layer that is corrosion resistant, suitable for various aluminium parts / products.

※Hexavalent-Chromium (CR6) Free

Sugatsune is strictly controlling the use of chemicals that would adversely impact the environment. We are designing and developing products with minimum use of materials which has adverse environmental impact. Hexavalent chromium compound is especially known for its adverse effects on the human body. We are actively substituting this Hexavalent-chromium (CR6) with the environment friendly Trivalent-chromium (CR3).

MATERIALS

In this catalogue, materials are indicated below. (For some items, only the materials of main parts are shown due to space limitations)

Irons and Steels

Material	Name
Steel	Iron-based screw, washer, etc.
Steel (SS)	Rolled steel for general structure
Steel (S※※C)	Carbon steel for machine structural use (Enter number for ※)
Steel (SECC)	Electrogalvanised steel sheet and steel strip
Steel (SF)	Carbon steel forging
Steel (SGCC)	Hot-dip galvanised steel sheet and steel strip
Steel (SK)	Carbon tool steel
Steel (SPCC)	Cold-rolled steel sheet and steel strip
Steel (SPHC)	Hot-rolled mild steel sheet and steel strip
Steel (SUM)	Sulfur and sulfur-composite free cutting steel
Steel (SUP)	Spring steel
Steel (SW)	Hard steel wire
Steel (SWP)	Piano wire
Steel (SWRH)	High carbon steel wire rod
Steel (SWRM)	Low carbon steel wire rod
Steel (SWCH)	Carbon steel for cold heading
Cast Iron (FC)	Grey iron casting
Stainless Steel	Stainless steel screw, washer, etc.
Stainless Steel (SUS301)	Austenitic stainless steel
Stainless Steel (SUS303)	Austenitic stainless steel
Stainless Steel (SUS304)	Austenitic stainless steel
Stainless Steel (SUS316, SUS316L)	Austenitic stainless steel
Stainless Steel (SUS420)	Martensitic stainless steel
Stainless Steel (SUS430)	Ferritic stainless steel
Stainless Steel (SUS440)	Martensitic stainless steel
Stainless Steel (SUS631)	Precipitation hardening stainless steel
Stainless Steel (SCS13)	Stainless steel casting
Stainless Steel (SCS14)	Stainless steel casting

Non-ferrous Metals

Material	Name
Aluminium Alloy	—
Aluminium Alloy (ADC)	Aluminium alloy die casting
Aluminium Alloy (AC)	Aluminium alloy casting
Zinc Alloy	—
Zinc Alloy (ZDC)	Zinc alloy die casting
Zinc Alloy (BRIC)	A kind of zinc alloy die casting
Brass	—
Free Cutting Brass	—
Phosphor Bronze	—
Phosphor Bronze for Spring	—
Nickel Silver	—
Copper Alloy Casting (CAC)	—
Magnesium Alloy (MDC)	Magnesium alloy die casting
Titanium Alloy	—

Magnets

Material	Name
Ferrite	—
Neodymium	—
Samarium Cobalt	Samarium-cobalt
Alnico	—

Plastics

Material	Name
ABS Resin	Acrylonitrile butadiene styrene
AES Resin	Acrylonitrile ethylene propylene rubber styrene
AS Resin	Acrylonitrile styrene
Cellulose Acetate (CA)	—
Casein (CS)	—
Epoxy Resin (EP)	—
Ethylene Vinyl Acetate (EVA)	—
EVOH Resin	Ethylene vinyl alcohol
FRP	Unsaturated polyester + glass fibre
Melamine Resin (MF)	Melamine formaldehyde resin
Polyamide (PA)	—
Polycarbonate (PC)	—
Polyethylene (PE)	—
PEEK Resin	Polyether ether ketone
High Density Polyethylene (HDPE)	—
Chlorinated Polyethylene (CPE)	—
PBT Resin	Polybutylene terephthalate
PET Resin	Polyethylene terephthalate
Phenol resin (PF)	Phenol formaldehyde resin
Methacrylic Resin (PMMA)	Polymethyl methacrylate
Polyacetal (POM)	—
Polypropylene (PP)	—
PPO Resin	Polypropylene oxide
PPS Resin	Polyphenylene sulfide
PPE Resin	Polyphenylene ether
Polystyrene (PS)	—
High Impact Polystyrene (HIPS)	—
Polytetrafluoroethylene (PTFE)	Polytetrafluoroethylene
Polyvinyl Chloride (PVC)	Polyvinyl chloride
Polyimide (PI)	—
Polyamideimide (PAI)	—
Polyetherimide (PEI)	—
Silicone Resin (SI)	Silicone plastic
Urea Resin (UF)	Urea formaldehyde resin
Unsaturated polyester Resin (UP)	—
~Elastomer	Elastomer

Rubbers

Material
Natural Rubber (NR)
Styrene Butadiene Rubber (SBR)
Butadiene Rubber (BR)
Isoprene Rubber (IR)
Nitrile Rubber (NBR)
Chloroprene Rubber (CR)
Ethylene Propylene Rubber (EPDM)
Isobutylene Isoprene Rubber (IIR)
Urethane Rubber (UR)
Polyurethane Rubber (PUR)
Silicone Rubber (Q)
Fluoro Rubber (FKM)
Synthetic Rubber

DOOR WEIGHT TABLE

Door Weight Calculator

The below density is only for reference and it may differ depending on their material and specification.
For door sizes not listed in the table below, please use the Door Weight Calculator.

Calculation: Door Weight (kg) = Density (Specific Gravity) × Door Height (mm) × Door Width (mm) × Door Thickness (mm) ÷ 1,000,000

Wooden Door Weight (kg)

Door Type	MDF (Density 0.8)					Particle Board (Density 0.6)					Plywood (Density 0.6)					Flush (Density 0.5)				
Door Thickness mm / Door Size mm	16	19	22	25	35	16	19	22	25	35	16	19	22	25	35	16	19	22	25	35
300× 400	1.5	1.8	2.1	2.4	3.4	1.2	1.4	1.6	1.8	2.5	1.2	1.4	1.6	1.8	2.5	1.0	1.1	1.3	1.5	2.1
300× 500	1.9	2.3	2.6	3.0	4.2	1.4	1.7	2.0	2.3	3.2	1.4	1.7	2.0	2.3	3.2	1.2	1.4	1.7	1.9	2.6
300× 600	2.3	2.7	3.2	3.6	5.0	1.7	2.1	2.4	2.7	3.8	1.7	2.1	2.4	2.7	3.8	1.4	1.7	2.0	2.3	3.2
300× 700	2.7	3.2	3.7	4.2	5.9	2.0	2.4	2.8	3.2	4.4	2.0	2.4	2.8	3.2	4.4	1.7	2.0	2.3	2.6	3.7
300× 800	3.1	3.6	4.2	4.8	6.7	2.3	2.7	3.2	3.6	5.0	2.3	2.7	3.2	3.6	5.0	1.9	2.3	2.6	3.0	4.2
300× 900	3.5	4.1	4.8	5.4	7.6	2.6	3.1	3.6	4.1	5.7	2.6	3.1	3.6	4.1	5.7	2.2	2.6	3.0	3.4	4.7
300×1000	3.8	4.6	5.3	6.0	8.4	2.9	3.4	4.0	4.5	6.3	2.9	3.4	4.0	4.5	6.3	2.4	2.9	3.3	3.8	5.3
400× 500	2.6	3.0	3.5	4.0	5.6	1.9	2.3	2.6	3.0	4.2	1.9	2.3	2.6	3.0	4.2	1.6	1.9	2.2	2.5	3.5
400× 600	3.1	3.6	4.2	4.8	6.7	2.3	2.7	3.2	3.6	5.0	2.3	2.7	3.2	3.6	5.0	1.9	2.3	2.6	3.0	4.2
400× 700	3.6	4.3	4.9	5.6	7.8	2.7	3.2	3.7	4.2	5.9	2.7	3.2	3.7	4.2	5.9	2.2	2.7	3.1	3.5	4.9
400× 800	4.1	4.9	5.6	6.4	9.0	3.1	3.6	4.2	4.8	6.7	3.1	3.6	4.2	4.8	6.7	2.6	3.0	3.5	4.0	5.6
400× 900	4.6	5.5	6.3	7.2	10.1	3.5	4.1	4.8	5.4	7.6	3.5	4.1	4.8	5.4	7.6	2.9	3.4	4.0	4.5	6.3
400×1000	5.1	6.1	7.0	8.0	11.2	3.8	4.6	5.3	6.0	8.4	3.8	4.6	5.3	6.0	8.4	3.2	3.8	4.4	5.0	7.0
400×1100	5.6	6.7	7.7	8.8	12.3	4.2	5.0	5.8	6.6	9.2	4.2	5.0	5.8	6.6	9.2	3.5	4.2	4.8	5.5	7.7
400×1200	6.1	7.3	8.4	9.6	13.4	4.6	5.5	6.3	7.2	10.1	4.6	5.5	6.3	7.2	10.1	3.8	4.6	5.3	6.0	8.4
500× 600	3.8	4.6	5.3	6.0	8.4	2.9	3.4	4.0	4.5	6.3	2.9	3.4	4.0	4.5	6.3	2.4	2.9	3.3	3.8	5.3
500× 700	4.5	5.3	6.2	7.0	9.8	3.4	4.0	4.6	5.3	7.4	3.4	4.0	4.6	5.3	7.4	2.8	3.3	3.9	4.4	6.1
500× 800	5.1	6.1	7.0	8.0	11.2	3.8	4.6	5.3	6.0	8.4	3.8	4.6	5.3	6.0	8.4	3.2	3.8	4.4	5.0	7.0
500× 900	5.8	6.8	7.9	9.0	12.6	4.3	5.1	5.9	6.8	9.5	4.3	5.1	5.9	6.8	9.5	3.6	4.3	5.0	5.6	7.9
500×1000	6.4	7.6	8.8	10.0	14.0	4.8	5.7	6.6	7.5	10.5	4.8	5.7	6.6	7.5	10.5	4.0	4.8	5.5	6.3	8.8
500×1100	7.0	8.4	9.7	11.0	15.4	5.3	6.3	7.3	8.3	11.6	5.3	6.3	7.3	8.3	11.6	4.4	5.2	6.1	6.9	9.6
500×1200	7.7	9.1	10.6	12.0	16.8	5.8	6.8	7.9	9.0	12.6	5.8	6.8	7.9	9.0	12.6	4.8	5.7	6.6	7.5	10.5
500×1300	8.3	9.9	11.4	13.0	18.2	6.2	7.4	8.6	9.8	13.7	6.2	7.4	8.6	9.8	13.7	5.2	6.2	7.2	8.1	11.4
500×1400	9.0	10.6	12.3	14.0	19.6	6.7	8.0	9.2	10.5	14.7	6.7	8.0	9.2	10.5	14.7	5.6	6.7	7.7	8.8	12.3
500×1500	9.6	11.4	13.2	15.0	21.0	7.2	8.6	9.9	11.3	15.8	6.0	7.1	8.3	9.4	13.1	7.2	8.6	9.9	11.3	15.8
500×1600	10.2	12.2	14.1	16.0	22.4	7.7	9.1	10.6	12.0	16.8	7.7	9.1	10.6	12.0	16.8	6.4	7.6	8.8	10.0	14.0
500×1700	10.9	12.9	15.0	17.0	23.8	8.2	9.7	11.2	12.8	17.9	8.2	9.7	11.2	12.8	17.9	6.8	8.1	9.4	10.6	14.9
500×1800	11.5	13.7	15.8	18.0	25.2	8.6	10.3	11.9	13.5	18.9	8.6	10.3	11.9	13.5	18.9	7.2	8.6	9.9	11.3	15.8

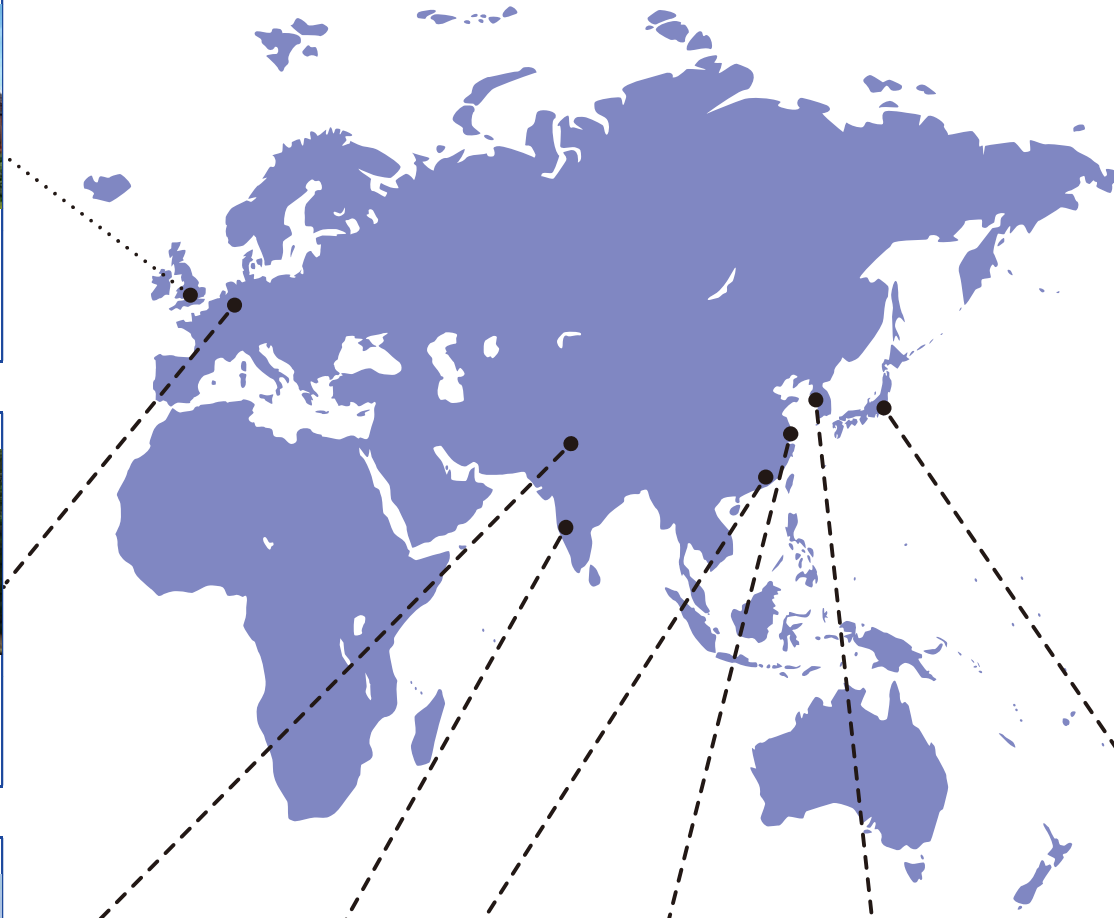
Glass Door Weight (kg)

Glass Door Thickness mm	4 (Density 2.5)							5 (Density 2.5)							6 (Density 2.5)						
Door Width mm / Door Height mm	300	400	500	600	700	800	900	300	400	500	600	700	800	900	300	400	500	600	700	800	900
300	0.9	1.2	1.5	1.8	2.1	2.4	2.7	1.1	1.5	1.9	2.3	2.6	3.0	3.4	1.4	1.8	2.3	2.7	3.2	3.6	4.1
350	1.1	1.4	1.8	2.1	2.5	2.8	3.2	1.3	1.8	2.2	2.6	3.1	3.5	3.9	1.6	2.1	2.6	3.2	3.7	4.2	4.7
400	1.2	1.6	2.0	2.4	2.8	3.2	3.6	1.5	2.0	2.5	3.0	3.5	4.0	4.5	1.8	2.4	3.0	3.6	4.2	4.8	5.4
450	1.4	1.8	2.3	2.7	3.2	3.6	4.1	1.7	2.3	2.8	3.4	3.9	4.5	5.1	2.0	2.7	3.4	4.1	4.7	5.4	6.1
500	1.5	2.0	2.5	3.0	3.5	4.0	4.5	1.9	2.5	3.1	3.8	4.4	5.0	5.6	2.3	3.0	3.8	4.5	5.3	6.0	6.8
550	1.7	2.2	2.8	3.3	3.9	4.4	5.0	2.1	2.8	3.4	4.1	4.8	5.5	6.2	2.5	3.3	4.1	5.0	5.8	6.6	7.4
600	1.8	2.4	3.0	3.6	4.2	4.8	5.4	2.3	3.0	3.8	4.5	5.3	6.0	6.8	2.7	3.6	4.5	5.4	6.3	7.2	8.1
650	2.0	2.6	3.3	3.9	4.6	5.2	5.9	2.4	3.3	4.1	4.9	5.7	6.5	7.3	2.9	3.9	4.9	5.9	6.8	7.8	8.8
700	2.1	2.8	3.5	4.2	4.9	5.6	6.3	2.6	3.5	4.4	5.3	6.1	7.0	7.9	3.2	4.2	5.3	6.3	7.4	8.4	9.5
750	2.3	3.0	3.8	4.5	5.3	6.0	6.8	2.8	3.8	4.7	5.6	6.6	7.5	8.4	3.4	4.5	5.6	6.8	7.9	9.0	10.1
800	2.4	3.2	4.0	4.8	5.6	6.4	7.2	3.0	4.0	5.0	6.0	7.0	8.0	9.0	3.6	4.8	6.0	7.2	8.4	9.6	10.8
850	2.6	3.4	4.3	5.1	6.0	6.8	7.7	3.2	4.3	5.3	6.4	7.4	8.5	9.6	3.8	5.1	6.4	7.7	8.9	10.2	11.5
900	2.7	3.6	4.5	5.4	6.3	7.2	8.1	3.4	4.5	5.6	6.8	7.9	9.0	10.1	4.1	5.4	6.8	8.1	9.5	10.8	12.2
950	2.9	3.8	4.8	5.7	6.7	7.6	8.6	3.6	4.8	5.9	7.1	8.3	9.5	10.7	4.3	5.7	7.1	8.6	10.0	11.4	12.8
1000	3.0	4.0	5.0	6.0	7.0	8.0	9.0	3.8	5.0	6.3	7.5	8.8	10.0	11.3	4.5	6.0	7.5	9.0	10.5	12.0	13.5
1050	3.2	4.2	5.3	6.3	7.4	8.4	9.5	3.9	5.3	6.6	7.9	9.2	10.5	11.8	4.7	6.3	7.9	9.5	11.0	12.6	14.2
1100	3.3	4.4	5.5	6.6	7.7	8.8	9.9	4.1	5.5	6.9	8.3	9.6	11.0	12.4	5.0	6.6	8.3	9.9	11.6	13.2	14.9
1150	3.5	4.6	5.8	6.9	8.1	9.2	10.4	4.3	5.8	7.2	8.6	10.1	11.5	12.9	5.2	6.9	8.6	10.4	12.1	13.8	15.5

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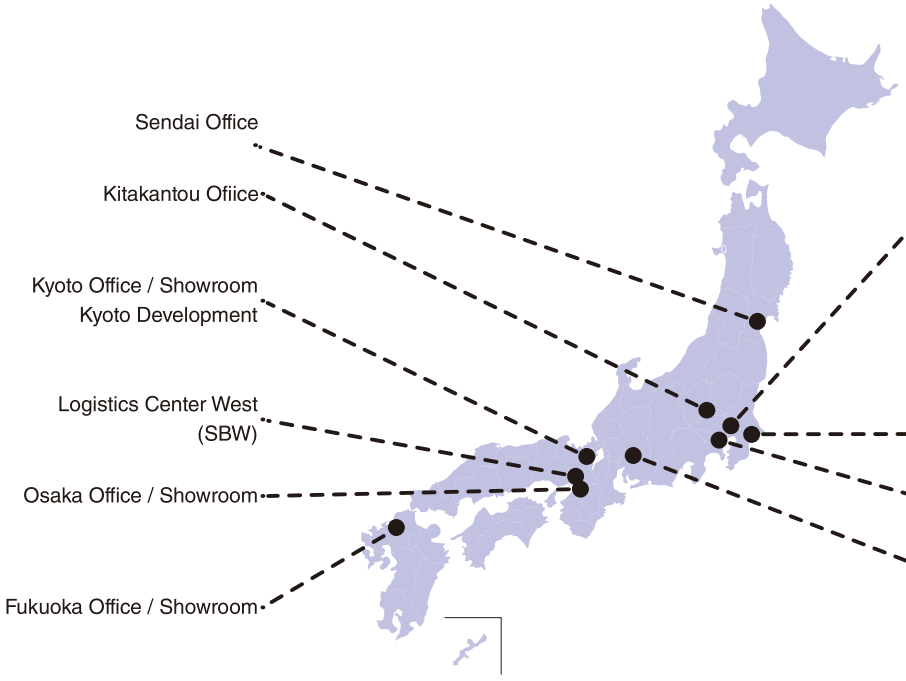
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Logistics Center West
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Osaka Office / Showroom
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Tokyo Head Office / Showroom
Tokyo Development

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Chiba Factory,
Chiba Development
Logistics Center(SBC)
Kanagawa Office
Nagoya Office / Showroom

Sugatsune's History



The first home shop after the war (1946)

1930	“Sugatsune Shoten” is founded by Tsunesaburo Sugasawara.Sells European style furniture hardware.
1943	The company changes its name to “Sugatsune Kogyo Co., Ltd.”, manufacturing metal accessories for communication until the end of the war.
1949	The company starts manufacture furniture hardware and architectural hardware.
1968	Capital is increased to 50 million yen. Shin-ohashi Sales Office is moved to the site of Tokyo Factory (Adachi-ku, Tokyo), and Adachi Sales Office is set up.
1969	Chiba Factory is constructed on the Trading Estate at Matsuo-cho in Chiba. This marked the beginning of mass production.
1975	Osaka Sales Office (current Osaka Branch) is opened.
1982	A logistics centre (S.B.C) with a floor area of 4,026m^2 is completed at the site of Chiba Factory. Sugatsune America Inc. is established in the United States.
1987	Sugatsune Kogyo comes up with an original damper technology “Lapcon”.
1992	Sugatsune Kogyo’s President Sugasawara is presented with a Medal with a Blue Ribbon by the government of Japan. A new logistics centre (S.B.C) with modern facilities is completed. (Floor area of 8,884m^2)
1998	Sugatsune Kogyo’s President Sugasawara receives Gold and Silver Rays, an Order of the Sacred Treasure. A technical centre is built at the site of Chiba Factory. Nagoya Sales Office is opened. The company registers for ISO 9001 certification.
2004	Sendai and Fukuoka sales offices are opened. An office and showroom are established in Shanghai, China.
2005	The largest showroom in the industry in Japan is opened at Iwamoto-cho, Chiyoda-ku, Tokyo. A large exhibition is held to commemorate the opening of the new showrooms in Tokyo and Osaka, and a new product presentation is held in Fukuoka and Sendai. Sugatsune UK is established in Great Britain. Shanghai Office is changed to Sugatsune Shanghai.
2006	A showroom is opened in Nagoya, and an exhibition is held to commemorate the opening of the new showroom. New head office building No.4 and No.5 are completed.
2007	A new building at logistics centre (S.B.C) is completed. (Floor area of 7,413m^2) Nagoya Sales Office is moved from Naka-ku to Kita-ku.
2009	The product concept “Motion Design Tech” is presented for giving further motion functions to the “opening and closing of doors or lids”.
2011	Kanagawa Sales Office is opened. Fukuoka Sales Office is moved and a showroom is opened. A showroom and sales office are opened in Chicago by Sugatsune America.
2012	Kyoto Sales Office is opened.
2013	Kyoto showroom is opened.
2015	Sugatsune Kogyo India Private Limited is established in India. A showroom is opened in Mumbai, India. A new logistics centre (SBW) is established in Osaka.
2016	Sugatsune Europe GmbH is established in Germany. Sugatsune Canada, Inc is established in Canada.
2017	The Monoflat LIN-X1000 wins a Reddot award.
2018	Sugatsune UK changes locations. Private exhibitions displaying new products are held in Tokyo, Osaka and Nagoya. In total, exhibitions are held in 13 cities across Japan. Sugatsune EU opens a showroom in Düsseldorf.
2019	Sales office opens in Northern Kanto. The LDD-V100 door damper wins both the Red Dot design award and also the iF design award. The head office moves to a new location.
2020	Sugatsune Kogyo celebrated its 90th anniversary.
2022	Sugatsune Korea is established as a local subsidiary in South Korea.

Company Profile

Company Name	Sugatsune Kogyo Co., Ltd.
President	Jun Sugasawara
Headquarters	Tokyo, Japan
Founded	February 11, 1930
Established	November 20, 1943
Capital	¥400,000,000
Number of Employees	497 (January, 2024)
Business Segment	Furniture fittings, Architectural hardware, Decorative hardware, Various import hardware, Industrial components hardware, IT industrial components, Custom-made items, Lighting part metal, Furniture metal, Fixtures furniture

Business Partner Countries & Regions

Sweden/Netherlands/Belgium/Spain/Portugal/France/Maltese/Monaco/Denmark/Sweden/Finland/Norway/Cyprus/Greece/Brazil/Argentina/Brazil/Argentina/Chile/Britain/Ireland/Germany/Italy/Austria/Oman/Bahrain/Jordan/Iran/Egypt/Qatar/India/Pakistan/SriLanka/Bangladesh/South Africa/Russia/Poland/Romania/Bulgaria/Estonia/Lithuania/Turkey/Israel/Lebanon/SaudiArabia/Kuwait/Australia/NewZealand/Indonesia/Singapore/Malaysia/Thailand/Myanmar/Vietnam/Philippines/Mongolia/China/HongKong/Taiwan/Korea

Registration

ISO 9001 : JSAQ384

ISO 14001 : JSAE597

(ISO 9001 : Sugatsune's bases in Japan,
ISO 14001 : Chiba Factory of Chiba Production Division and Logistics Centre of Logistics Division)

General Construction Business Licence No. :
Tokyo Metropolitan Governor Licence (General –25) No.140997

The Origin of LAMP Brand

The initial trademark for LAMP goods was derived by the company's founder, Tsunezaburo Sugasawara, from the Japanese symbol for "ordinary" (常). By separating this character into its component pieces, he took this to symbolize "the use of fire," which he chose to designate as a metaphor for wisdom and courage. He visualized this concept as a lamp. He thought that Sugatsune goods may, even if only a little, "brighten" society. Sugatsune's reliable quality is still represented by the logo to this day.

HAND_LAMP Mark
Founding time ~ Around 1990

LAMP Mark
Around 1990 ~ Now

Commitment to Quality and the Environment

All departments from planning, manufacturing to sales have a high awareness of quality, and through unremitting efforts, all the domestic bases in Japan have achieved ISO 9001 certification (registration No.: JSAQ384). We also actively engaged in environmental conservation activities, and achieved ISO 14001 certification (registration No.: JSAE597) at our development bases, namely Chiba Factory of Chiba Production Division and Logistics Centre of Logistics Division.

Quality Management System ISO 9001 certification (certification/registration) approved

Quality Policy: I consider the fundamentals and pursue the essential and ideal.

Sugatsune America, Sugatsune Europe, and Sugatsune Shanghai are also ISO 9001 certified.

Environmental Management System ISO 14001 certification (certification/registration) approved

Connect with Us on Social Media

Watch our product videos, including instructional guides on our YouTube channel.

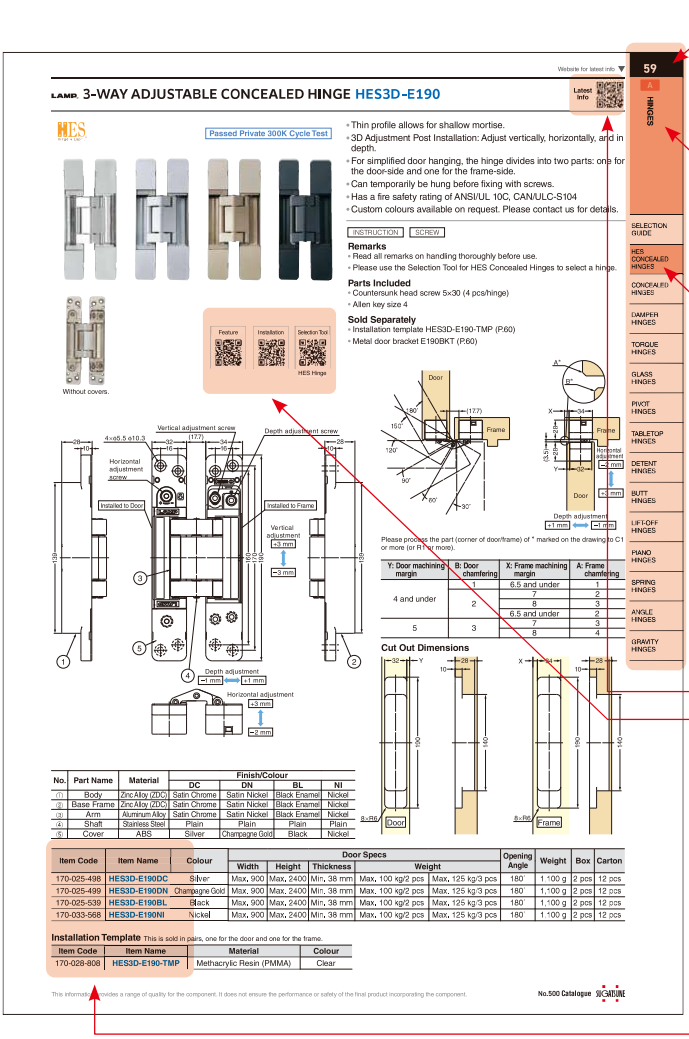
Sugatsune Global

Explore our product applications and stay updated on Instagram and Facebook.

Sugatsune Global

Sugatsune Global

Description of Main Text

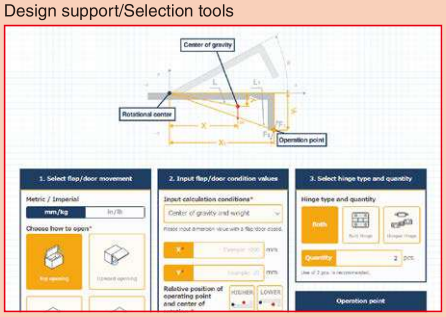


Viewable from the QR code.

Access website, videos and selection tools



Design support/Selection tools



With the selection tool Sasuga-kun, you can select the “Motion Design Tech” products meeting your requirements simply by entering values such as the size and weight of the lid or door. You can use it on our website.

Item Code	Item Name	Col
170-025-498	HES3D-E190DC	Silv
170-025-499	HES3D-E190DN	Champag
170-025-539	HES3D-E190BL	Bla
170-033-568	HES3D-E190NI	Nic

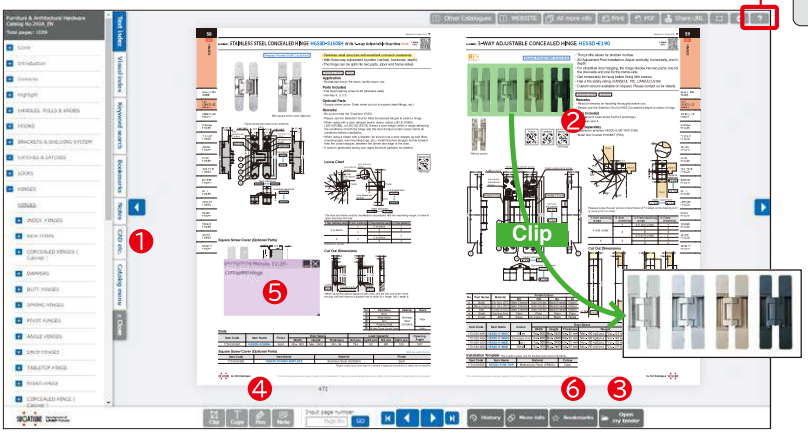
• Please specify the Item Name. and quantity when ordering.

Online Catalogue Functions

❶ CAD etc.
Access product information easily.

❷ Clip
Download images within the dragged area.

❸ MyBinder
Register favourites to MyBinder to download multiple catalogues together as a single PDF.



*Screens may be changed.

See Help for other functions and operation methods.

❹ Pen
Draw arrows, add frames, or take notes on the catalogue as desired.

❺ Note
Enter notes. Display only pages with sticky notes affixed.

❻ Bookmarks
Register favourite pages for easier reference later.

How to Use This Catalogue

- All items, unless specified, are made to exact metric dimension.
- Changes in dimensions, finishes, packing, etc., and suspension of production may occur without notice.
- Our liability is limited to the replacement of the merchandise.

Defective Products

- While great care is taken in the manufacturing of our products, should a defect arise, contact the dealer. The warranty period is one year from the date of our invoice. Should a defect arise during the warranty period, we will replace the product in question with a functioning product within the range of our responsibility.

Returns/Replacements/Post-Order Changes

- Returns and replacements will be handled upon confirming the actual product after customer consultation with a Sugatsune sales representative. Requests for returns or replacements must be made within 30 days of the date of our invoice.
  Please note that customers will be asked to cover handling charges for returns or replacements made at customer convenience.
- Please note that we may not be able to accommodate changes made after placing orders.

Precautions for Mounting

- Improper installation may not only cause the product to malfunction but could also result in damage. Handle with care.
  For some products, installation manuals are included or available online. Read the manual thoroughly to ensure correct installation.
- Pay attention to any loosened mounting screws or fastening parts. Screws or fastening parts may loosen due to the mounting conditions or the usage environment. Such loosening may result in decreased functionality or damage to the mounted product, as well as potential injuries. To ensure safe usage, retighten periodically, even if thread-locker is applied to the screws. Generally, retighten one month after initial use, again six months thereafter, and approximately every year subsequently. Note that these guidelines apply to specific conditions and do not guarantee product quality or safety. Their applicability to the product is to be judged by the customer.

Screws

- The included and recommended screws listed with the product conform to the former JIS standards.

CAD Data (3D & 2D)

- Register as a member on our website to download CAD data. Additionally, we will verify the registered data, as membership is intended for designers.

Product Information

- The information listed in this catalogue is current as of September 2024. Product prices, specifications, dimensions, colours, and other details may change without notice due to improvements or material price fluctuations; products may also be discontinued without notice. For the latest information, see our website.
- Due to the hard copy format, some specifications such as details of dimensions and shapes have been omitted.
  For more detailed information, please contact us.
- Many of the listed products include registered or pending designs, patents, and utility models.
- Due to the hard copy format, product colours may differ slightly from the actual products. Please refer to the actual product for accurate colour representation.
- The photographs and computer graphics in the catalogue are visualisations. Depending on the conditions, installation as shown may not be possible. Confirm before purchase.
- Data on specifications and performance, such as loads, weight, force, is listed for use as a guideline to product selection. The values shown are not guaranteed under all conditions.
- Product content listed in this catalogue indicates the quality range as parts. It does not guarantee the functionality, performance, or safety of the final product using these parts.
- Data when using our products with customer products may involve different figures depending on elements such as mounting accuracy, mounting method, temperature, humidity, dust, indoors/outdoors conditions, target product structure, material, size, installation conditions, and individual operation.
- For test content details, request a test report and confirm as needed.
- When using our products near the limits of the listed data, or when confirmation of safety or durability is required in order to prevent accidents, mount the actual product and confirm, or provide the most detailed possible explanation of the usage conditions to consult with us.
- With some exceptions, our products are furniture and architectural fittings for indoor use. Consult with a sales representative concerning use outdoors, near water, or in severe environments.
- Unauthorized reproduction of this catalogue is strictly prohibited.

Display Content

Material

For material notation, please see “Materials” on P.1367.

Finish (surface treatment)

Finish notations are displayed with the following abbreviations due to limitations of space.

Display	Finish
Bright Chromate	Zinc Plated Bright Chromate
Coloured Chromate	Zinc Plated Coloured Chromate

Coloured chromate is characterized by sharply varying hues; this is not a defect.

■Paint

Paint is displayed as follows. (e.g.) Powder Baked Enamel Paint/White

■Colour Display

There may be multiple display methods for a single colour.

(e.g.) White may be indicated as W, WT, or WH.
Black may be indicated as B or BL.
Silver may be indicated as S or SL.

Dimensional Units

The units for the listed dimensions are millimetres (mm) (unless otherwise stated).

Dimensional Error

The machining process inevitably results in a degree of product error. Be sure to confirm with the actual product before use.

Drawings

With some exceptions, drawings employ the third angle projection method. Due to limitations of space, some detailed dimensions, etc. may been omitted.

Weight

Notations indicate the weight for one product or one set only.

Load Capacity

The figures displayed for load capacity are examples of data we considered reliable and measured values in tests under conditions specified by us; they are not guaranteed values. As the values may vary depending on the usage method and application, be sure to make a selection upon confirmation of suitability for the application before use.

Units are shown in SI units based on the new measuring method, with MKS units also provided.

Quantity

Quantity, when notated, is shown as below.

1 box: Quantity in one small box displayed.
1 carton: Quantity in one cardboard box displayed.


SUGATSUNE



September 2024