No.500



Stylishly subtle hardware **highlights displays**





SUGATSUNE

Since 1930

Manufacturer of LAMP® brand products

# Furniture & Architectural Hardware



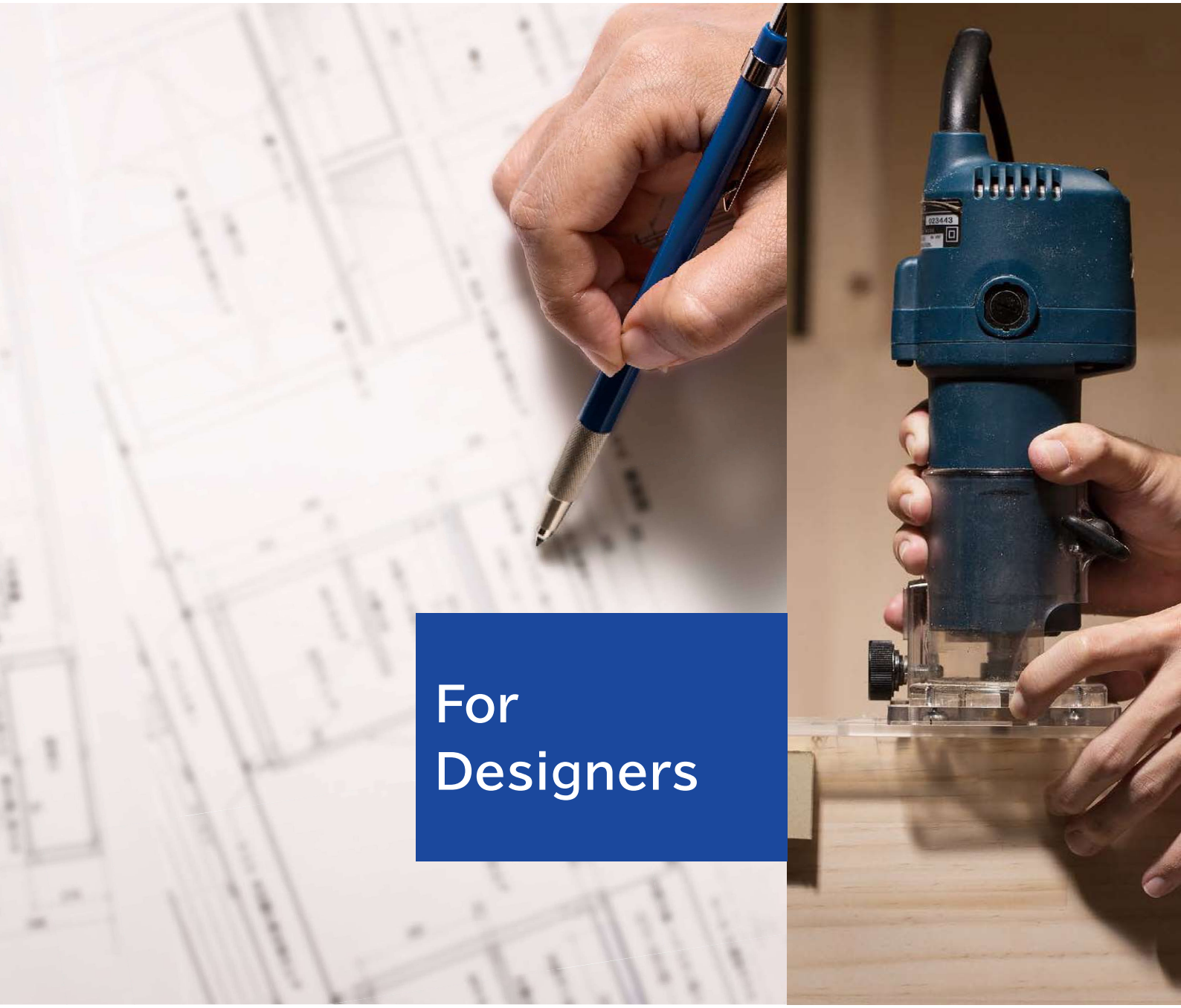
Hinges **integrated** with thin door frames





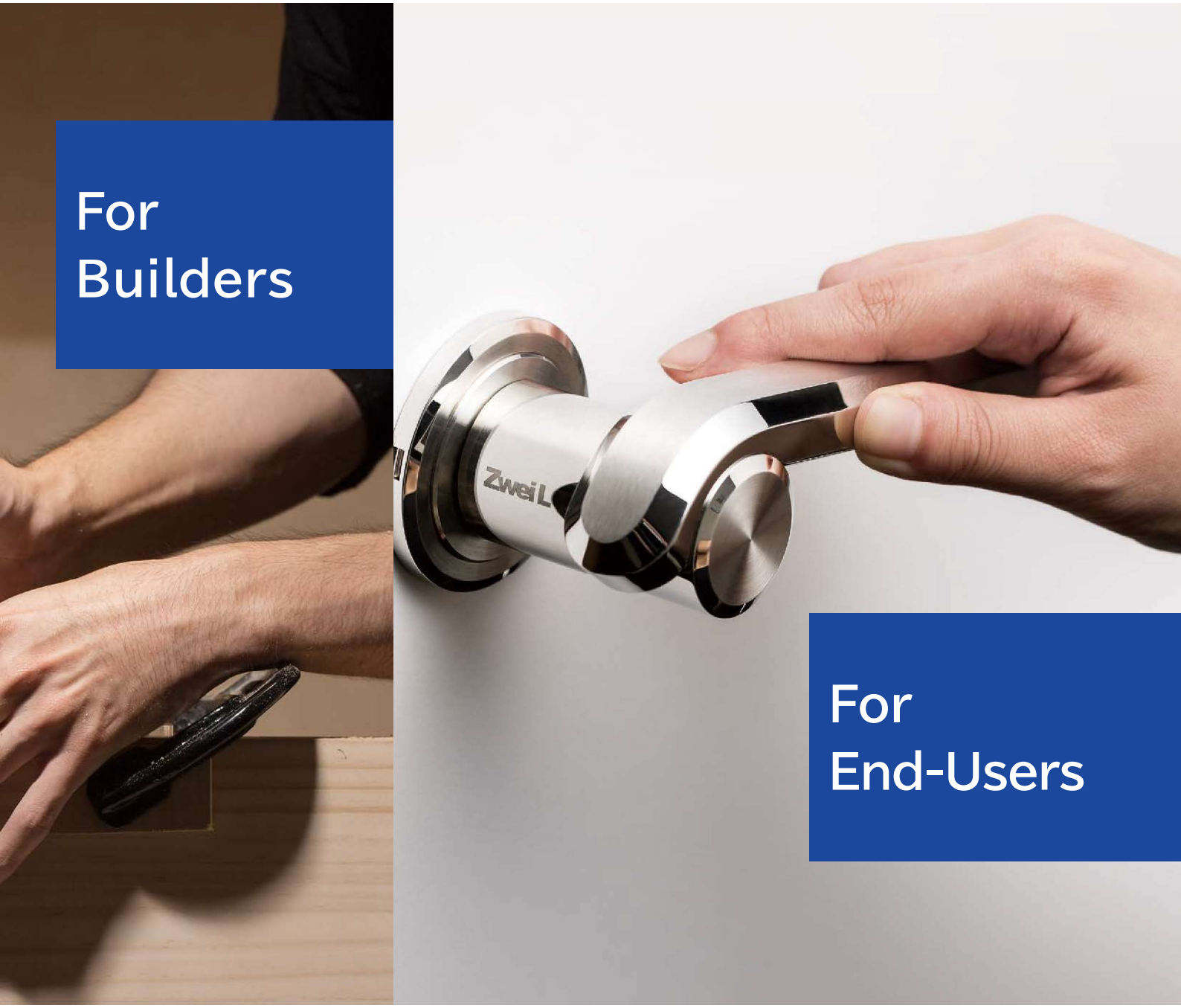
*Innovation beyond expectation*

*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



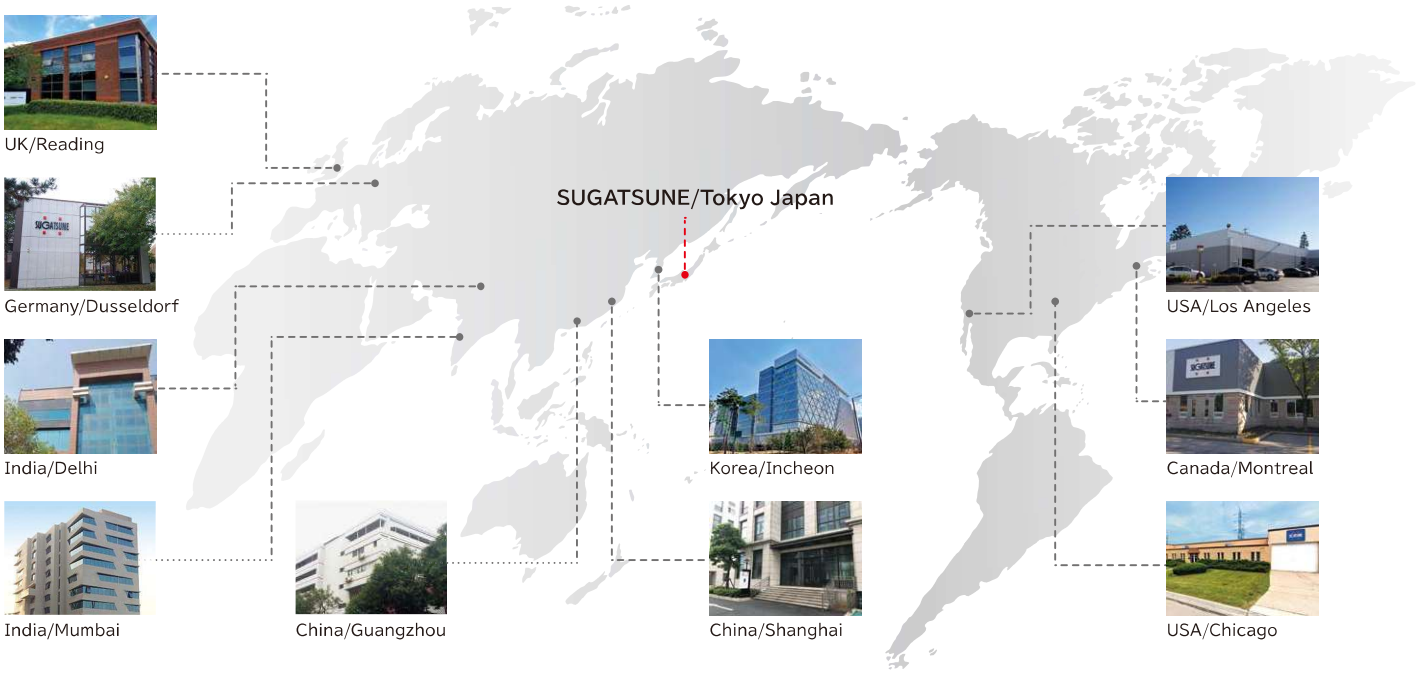
Design is no longer just about shape and colour. To deepen the meaning of "design," practicality and functionality have become integral elements in the Sugatsune manufacturing development process. Without ignoring the traditional design approach, resulting products undoubtedly possess a distinct visually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

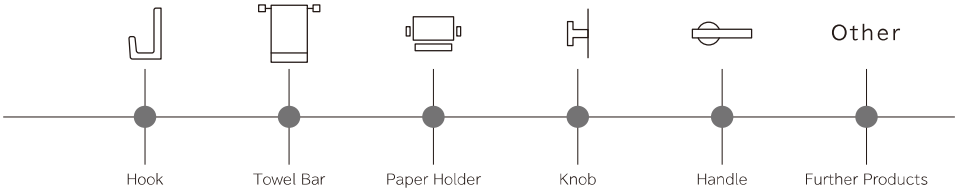








LINE UP





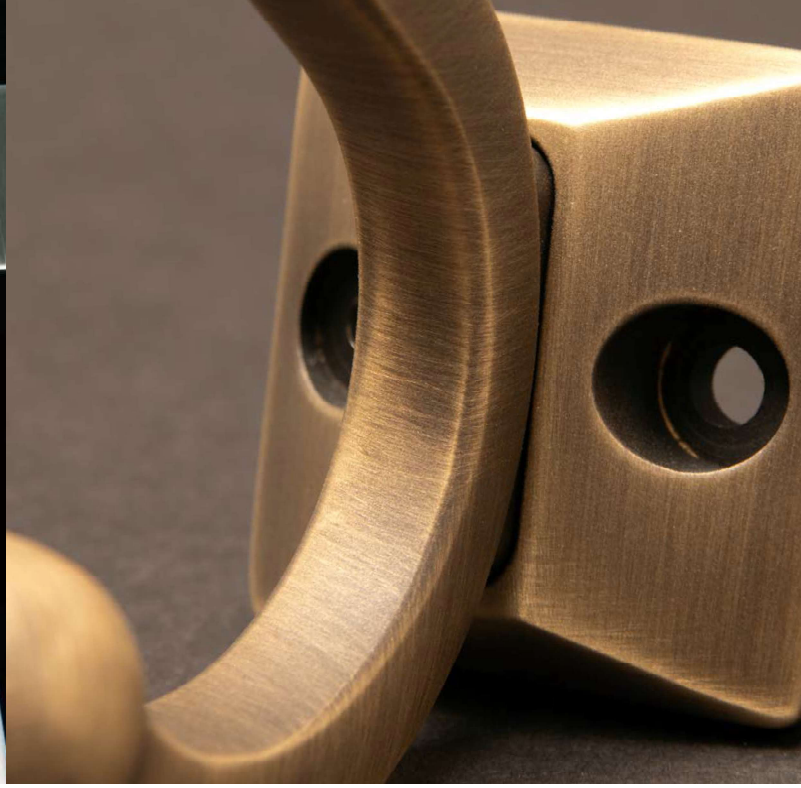
# LAMP®

## 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







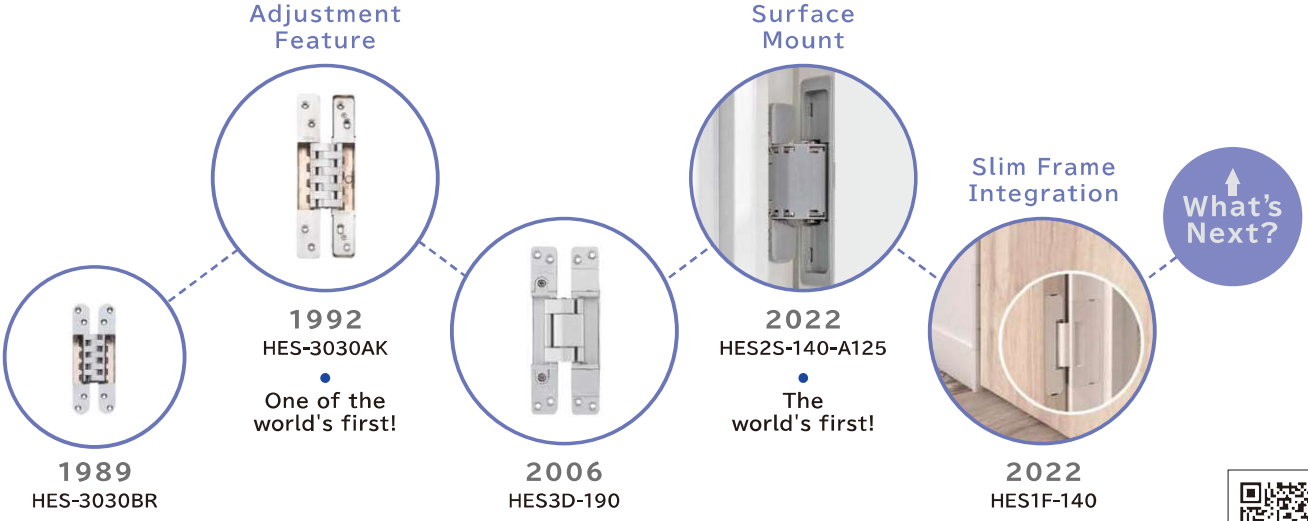
HES1F



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

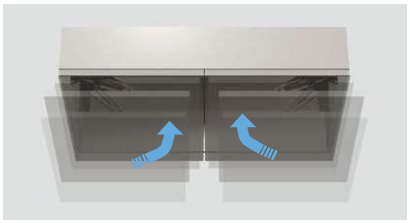
LAMP

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

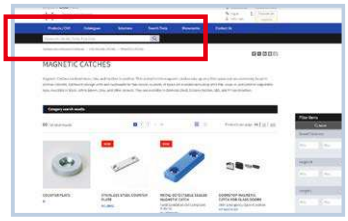
# Build Better with Sugatsune!

## Explore Our Comprehensive Support Resources

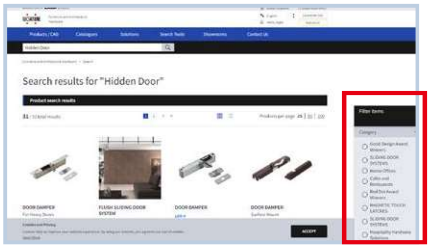


## Keyword Search & Product Filters

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"!

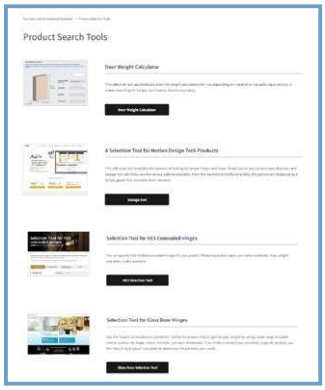



Filter by size, colour, or material as well!

## 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.











# H

# GROMMETS & VENTILATORS



**MULTI-PURPOSE LIDS**

These components are mounted on store fixtures or furniture to aid in disposal of garbage or leftovers. The specifications available include safety-aware products, others with locks, and others again designed for higher convenience.

**VENTILATORS**

These components are installed to prevent air from becoming stagnant inside furniture. Various materials such as resin, aluminium alloy, and stainless steel are available, along with a range of designs and functions; architectural ventilators are on offer as well.

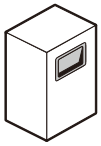
**CABLE GROMMETS**

Cable Grommets are sometimes called wire managers. They protect electric cables from possible mechanical damage.

# Selection Guide for Grommets and Ventilators

## Multi-purpose Lids

### With Covers / With Side Panels





AZ-GD Soft-close ▶P.983



AZ-GD231-HL Back Mount Type Soft-close ▶P.984



AZ-GD230L-HL With Lock Soft-close ▶P.985



AZ-HD With Handle ▶P.986

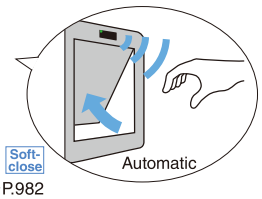


AZ-DD310-HL Interlocking ▶P.986

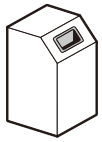
NEW



AZ-AT Automatic Open / Close Type Soft-close ▶P.982



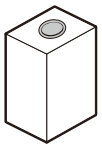

### With Covers / With Tilted Surfaces





AZ-GD232-HL With tilted surface Soft-close ▶P.981

### With Covers / With Top Panels





AD-GD Soft-close ▶P.980

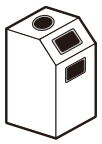


AD-DH015-HL ▶P.980



AD-KH Soft-close ▶P.981

### Without Cover





AN-DH, AN-LH ▶P.987



AN-KH ▶P.988



AN-SH026-HL ▶P.988



AZ-ND ▶P.989



AE-DH ▶P.989

### Optional Parts





Guide For Multi-Purpose Lid AZ-SLP ▶P.984



Hose for AE-DH AE-DH4540-1 ▶P.990



Strainer for AE-DH AE-DH020K-45 ▶P.990

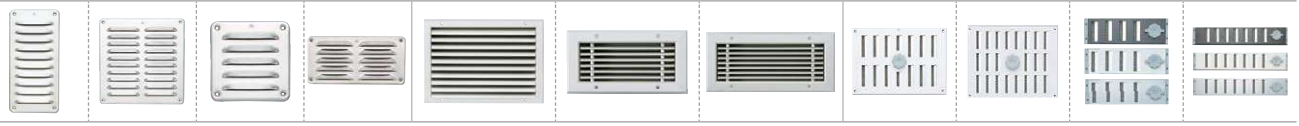
NEW



Lid Holder AZ-ST ▶P.982

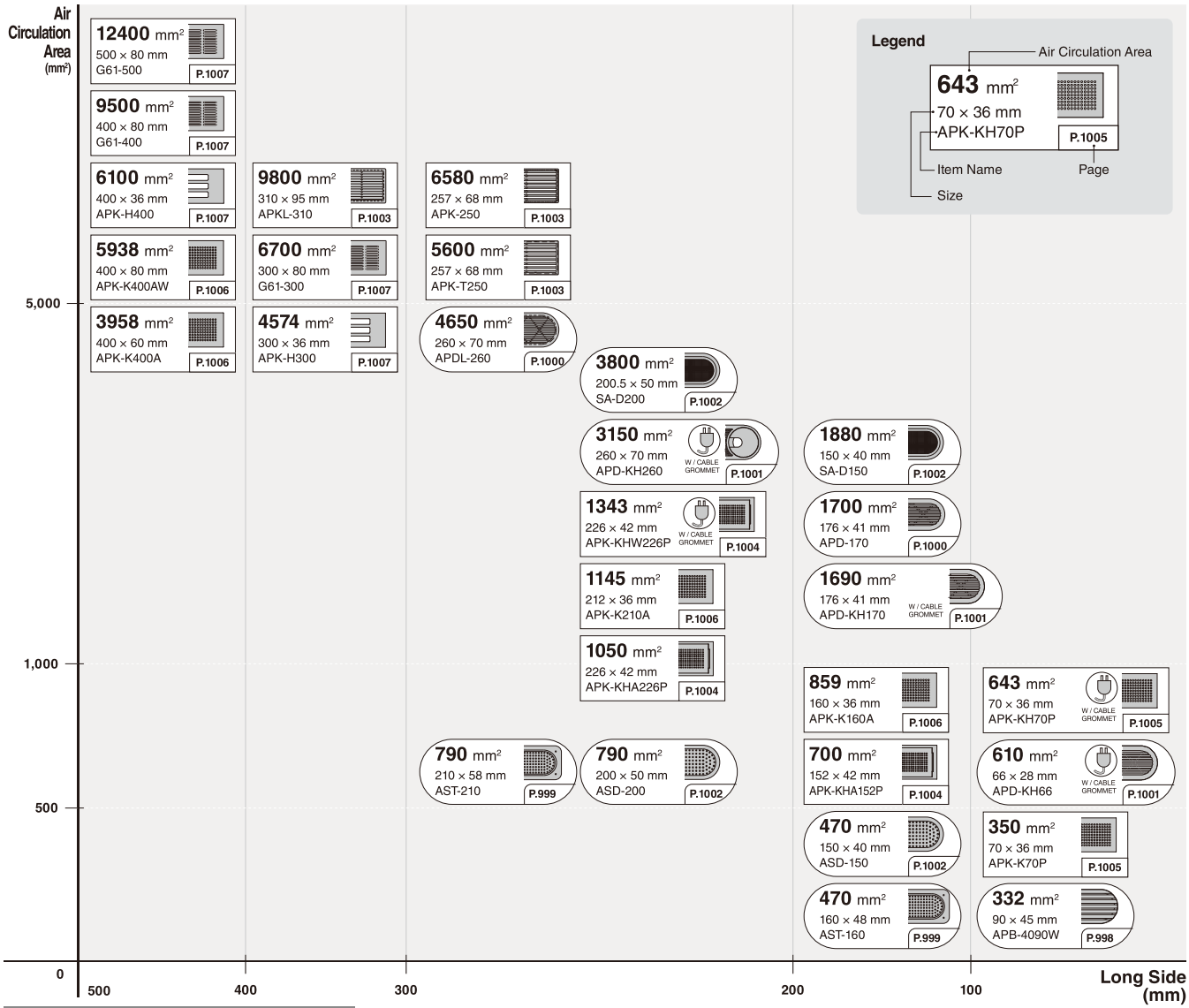
# Ventilators

Stainless Steel (SUS316) ▶P.994 - 995 | Aluminium Alloy ▶P.994 | Aluminium Alloy Adjustable ▶P.996 - 997

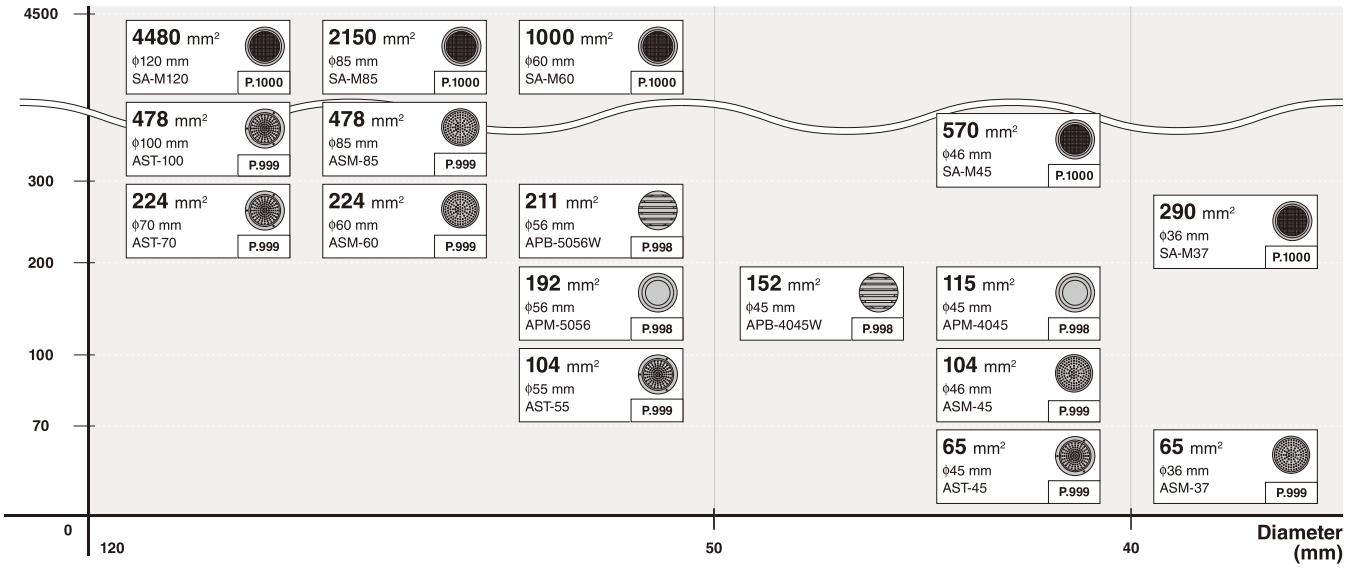


## Reference Table for Furniture Ventilator Air Circulation Area

### □Square / ⬭Oval



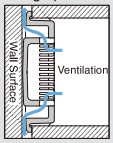

### ◯Round



## Square / Oval Type

| Width (mm) | 500 | 400 | 310 | 300 | 260 | 257 | 226 | 176 | 160 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|
| | G61-5008 ▶P.1007 | APK-K400A APK-K400AW ▶P.1006 | APKL-310 ▶P.1003 | APK-H300 ▶P.1007 | APD-KH260 ▶P.1001 | APK-250 APK-T250 ▶P.1003 | APK-KHW226P APK-KHA226P ▶P.1004 | APD-KH170 ▶P.1001 | AST-160 ▶P.999 | APB ▶P.998 |
| | G61-5008 ▶P.1007 | APK-H400 ▶P.1007 | APKL-310 ▶P.1003 | APK-H300 ▶P.1007 | APDL-260 ▶P.1000 | APK-250 ▶P.1003 | APK-KHW226P APK-KHA226P ▶P.1004 | APD-KH170 ▶P.1001 | APK-K160A ▶P.1006 | 70 |
| | | APK-K400A APK-K400AW ▶P.1006 | APKL-310 ▶P.1003 | G61-3008 ▶P.1007 | APD-KH260 ▶P.1001 | APK-250 ▶P.1003 | APK-KHW226P APK-KHA226P ▶P.1004 | APD-170 ▶P.1000 | APK-K160A ▶P.1006 | APK-K70P APK-KH70P ▶P.1005 |
| | | APK-H400 ▶P.1007 | | APK-H300 ▶P.1007 | APDL-260 ▶P.1000 | APK-250 APK-T250 ▶P.1003 | 212 | APD-KH170 ▶P.1001 | 152 | APK-K70P APK-KH70P ▶P.1005 |
| | | G61-4008 ▶P.1007 | | G61-3008 ▶P.1007 | APD-KH260 ▶P.1001 | | APK-K210A ▶P.1006 | APD-170 ▶P.1000 | APK-KHA152P ▶P.1004 | 66 |
| | | APK-K400A APK-K400AW ▶P.1006 | | APK-H300 ▶P.1007 | APDL-260 ▶P.1000 | | APK-K210A ▶P.1006 | APD-KH170 ▶P.1001 | APK-KHA152P ▶P.1004 | APD-KH66 ▶P.1001 |
| | | APK-H400 ▶P.1007 | | | | | 210 | APD-170 ▶P.1000 | APK-KHA152P ▶P.1004 | APD-KH66 ▶P.1001 |
| | | G61-4008 ▶P.1007 | | | | | AST-210 ▶P.999 | | 150 | APD-KH66 ▶P.1001 |
| | | APK-K400A APK-K400AW ▶P.1006 | | | | | 200.5 | APD-KH170 ▶P.1001 | ASD-150 ▶P.1002 | APD-KH66 ▶P.1001 |
| | | APK-H400 ▶P.1007 | | | | | SA-D200 ▶P.1002 | APD-170 ▶P.1000 | SA-D150 ▶P.1002 | APD-KH66 ▶P.1001 |
| | | | | | | | 200 | | | APD-KH66 ▶P.1001 |
| | | | | | | | ASD-200 ▶P.1002 | | | |

## Round Type

| Outer Diameter (mm) | 120 | 100 | 85 | 70 | 60 | 56 | 55 | 46 - 45 | 36 |
|---|---|---|---|---|---|---|---|---|---|
| Resin White | | | | | **APM** The inner slits are discreet, preventing visibility through to the other side while ensuring optimal airflow.   | APM-5056 ▶P.998 | | APM-4045 ▶P.998 | **APB** With slits on the interior wall, the opposite side is less visible. |
| Resin White | | | | | | APB-5056 ▶P.998 | | APB-4045 ▶P.998 | |
| Resin Brown | | | | | | APM-5056 ▶P.998 | | APM-4045 ▶P.998 | |
| Stainless Steel | SA-M120 ▶P.1000 | AST-100 ▶P.999 | SA-M85 ▶P.1000 ASM-85 ▶P.999 | AST-70 ▶P.999 | SA-M60 ▶P.1000 ASM-60 ▶P.999 | | AST-55 ▶P.999 | SA-M45 ▶P.1000 ASM-45 ▶P.999 AST-45 ▶P.999 | SA-M37 ▶P.1000 ASM-37 ▶P.999 |

# Cable Grommets

## Small-Diameter Eyelet Type

| Mounting Hole Diameter | | 22 | 18.5 | 18 | 14.5 | 14 |
|---|---|---|---|---|---|---|
| Outer Diameter (mm) | | 26 | 22 | | 18 | |
| Metal | White Bronze Plating | *CHC-S26 ▶P.1013 | CHC-22 ▶P.1013 | *CHC-S22 ▶P.1013 | CHC-18 ▶P.1013 | *CHC-S18 ▶P.1013 |
| Metal | Gold Colour Plating | CHC-S26 ▶P.1013 | CHC-22 ▶P.1013 | CHC-S22 ▶P.1013 | CHC-18 ▶P.1013 | CHC-S18 ▶P.1013 |
| Metal | Copper Patina Plating | CHC-S26 ▶P.1013 | CHC-22 ▶P.1013 | CHC-S22 ▶P.1013 | CHC-18 ▶P.1013 | CHC-S18 ▶P.1013 |
| Metal | Black | CHC-S26 ▶P.1013 | CHC-22 ▶P.1013 | CHC-S22 ▶P.1013 | CHC-18 ▶P.1013 | CHC-S18 ▶P.1013 |

*CHC-S is dull nickel coloured.

Replaceable without removing connector ends (LAN cables, etc.) of hole diameter ϕ12 to ϕ14.



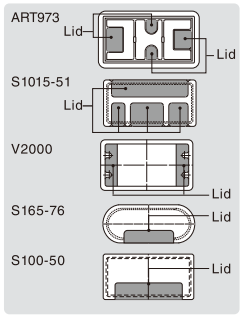
CHC-S18

## Square Hole Machined Type

| Width (mm) | | 500 | 400 |
|---|---|---|---|
| Metal | Silver | HTK-500 ▶P.1020 | HTK-400 ▶P.1020 |

## Large type

| Installation dimensions W×H(mm) | | 183.5 × 98.5 | 156.5 × 65.5 | 97.5 × 45.8*1 | 97.5 × 45.5 | 95.5 × 45 |
|---|---|---|---|---|---|---|
| Resin | White | V2000 ▶P.1017 | S165-76 ▶P.1016 | ART973 ▶P.1017 | S1015-51 ▶P.1017 | S100-50 ▶P.1016 |
| Resin | Beige / Cream | V2000 ▶P.1017 | S165-76 ▶P.1016 | | S1015-51 ▶P.1017 | S100-50 ▶P.1016 |
| Resin | Grey / Dark Beige | V2000 ▶P.1017 | S165-76 ▶P.1016 | | S1015-51 ▶P.1017 | S100-50 ▶P.1016 |
| Resin | Black | V2000 ▶P.1017 | S165-76 ▶P.1016 | | S1015-51 ▶P.1017 | S100-50 ▶P.1016 |




*1: Mounting hole machining dimensions for wood.

## Round Hole Machined Type

| Mounting Hole Diameter (mm) | 80.5 - 80 | 77 | 65 | 64 | 60.5 | 60 |
|---|---|---|---|---|---|---|
| Resin / Rubber — White | ST88 ● ▶P.1010<br>V80 ● ▶P.1011<br>S91 ● ▶P.1011 | S89 ● ▶P.1010 | S76 ● ▶P.1010 | LS76S ▶P.1009<br>LS76KS ▶P.1018 | V60 ● ▶P.1011 | ST70 ● ▶P.1010 |
| Resin / Rubber — Beige / Cream | ST88 ● ▶P.1010<br>V80 ● ▶P.1011<br>S91 ● ▶P.1011<br>S91 Lid | S89 ● ▶P.1010 | S76 ● ▶P.1010 | LS76S ▶P.1009<br>LS76KS ▶P.1018 | V60 ● ▶P.1011 | ST70 ● ▶P.1010 |
| Resin / Rubber — Dark Beige / Light Brown / Brown | Rotate to open / close lid: Close / Open — ST88<br>V80 ● ▶P.1011<br>S91 ● ▶P.1011<br>V80 ● ▶P.1011 | | | LS76S ▶P.1009<br>LS76KS ▶P.1018<br>LS76S ▶P.1009<br>LS76KS ▶P.1018 | V60 ● ▶P.1011<br>V60 ● ▶P.1011 | Rotate to open / close lid: Close / Open — ST70 |
| Resin / Rubber — Silver | ST88 ● ▶P.1010<br>V80 ● ▶P.1011 | | | Types clasped on both sides are also available. ▶P.1009<br>The mounting holes are round. Mounting Hole Diameter: 64<br>Types clasped on both sides are also available. ▶P.1019 | V60 ● ▶P.1011 | ST70 ● ▶P.1010 |
| Resin / Rubber — Gray | ST88 ● ▶P.1010<br>V80 Lid<br>S91 ● ▶P.1011 | S89 ● ▶P.1010 | S76 ● ▶P.1010 | | V60 Lid | ST70 ● ▶P.1010 |
| Resin / Rubber — Black | ST88 ● ▶P.1010<br>V80 ● ▶P.1011<br>S91 ● ▶P.1011 | S89 ● ▶P.1010 | S76 ● ▶P.1010 | LS76S ▶P.1009<br>LS76KS ▶P.1018 | V60 ● ▶P.1011 | ST70 ● ▶P.1010 |
| Metal — Silver | The mounting holes are round. Mounting Hole Diameter 80<br>S80 ▶P.1020<br>S93-14SL ▶P.1020 | | | | | |
| Metal — Black | Two types of finish are available for the S80 silver.<br>Bright Chrome Plating<br>Satin Chrome Plating | | | | | |

## Oval Hole Machined Type

| Width (mm) | 72 |
|---|---|

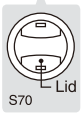
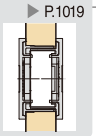
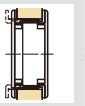
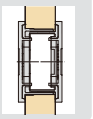
**LN72P ▶P.1015**

Chrome / Dull Chrome / Gold

**LN72 ▶P.1014 - 1015**

| Body | Surface Sheet | Combination Examples |
|---|---|---|
| White / Black | Maple / Mahogany / White / Black | White + Maple / Black + Mahogany |

*The body can also be used as an individual product.

| 60 | 55 | 49 | 48 | 45 | 40 | 39 | 35 |
|---|---|---|---|---|---|---|---|
|  S70 ● ▶P.1011 |  NEW LS60F ● ▶P.1008 |  S60 ● ▶P.1010 |  LSU60S / LS60S ▶P.1009  LS60KS / LSU60KS ▶P.1018 |  S51 ● ▶P.1010  NEW LS50F ● ▶P.1008 |  LS50S ▶P.1009  LS50KS ▶P.1018 |  S445 ● ▶P.1010 |  LS43S ▶P.1009  LS43KS ▶P.1018 |
|  S70 ● ▶P.1011 | |  S60 ● ▶P.1010 |  LSU60S / LS60S ▶P.1009  LS60KS / LSU60KS ▶P.1018 |  S51 ● ▶P.1010 |  LS50S ▶P.1009  LS50KS ▶P.1018 |  S445 ● ▶P.1010 |  LS43S ▶P.1009  LS43KS ▶P.1018 |
|  S70 ● ▶P.1011  Lid S70 | | |  LSU60S / LS60S ▶P.1009  LS60KS / LSU60KS ▶P.1018  LSU60S / LS60S ▶P.1009  LS60KS / LSU60KS ▶P.1018 | |  LS50S ▶P.1009  LS50KS ▶P.1018  LS50S ▶P.1009  LS50KS ▶P.1018 | |  LS43S ▶P.1009  LS43KS ▶P.1018  LS43S ▶P.1009  LS43KS ▶P.1018 |
| | | | Types clasped on both sides are also available. ▶P.1009  The mounting holes are round. Mounting Hole Diameter: 48 Types clasped on both sides are also available. ▶P.1019  | | Types clasped on both sides are also available. ▶P.1009  The mounting holes are round. Mounting Hole Diameter: 48 Types clasped on both sides are also available. ▶P.1019  | | Types clasped on both sides are also available. ▶P.1009  The mounting holes are round. Mounting Hole Diameter: 48 Types clasped on both sides are also available. ▶P.1019  |
|  S70 ● ▶P.1011 |  NEW LS60F ● ▶P.1008 |  S60 ● ▶P.1010 | |  S51 ● ▶P.1010  NEW LS50F ● ▶P.1008 | |  S445 ● ▶P.1010 | |
|  S70 ● ▶P.1011 |  NEW LS60F ● ▶P.1008 |  S60 ● ▶P.1010 |  LSU60S / LS60S ▶P.1009  LS60KS / LSU60KS ▶P.1018 |  S51 ● ▶P.1010  NEW LS50F ● ▶P.1008 |  LS50S ▶P.1009  LS50KS ▶P.1018 |  S445 ● ▶P.1010 |  LS43S ▶P.1009  LS43KS ▶P.1018 |
| | | | | Satin Nickel Plating |  NEW LS50S-S ▶P.1012 | | |
| | | | | Copper Patina Plating |  NEW LS50S-S ▶P.1012 | | |
| | | | | Black |  NEW LS50S-S ▶P.1012 | | |

**Legend**


Variations

Name → V80 ● ▶
Page → P.1011

● **Flame-retardant type**
Uses flame retardant material rated UL94HB.

● **Type with lid**
The hole can be hidden with a lid when not used for wiring.

# LAMP. MULTI-PURPOSE LID (W/DAMPER) AD-GD

Latest Info

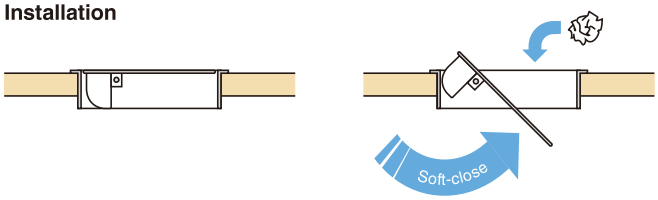



- Lid equipped with damper.
- Corrosion resistant.
- Wide opening.
- Operating temperature: 0˚C - 40˚C

Feature

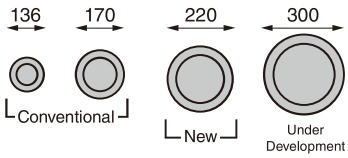
SUS

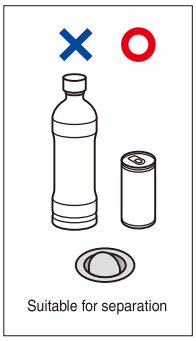
## Installation

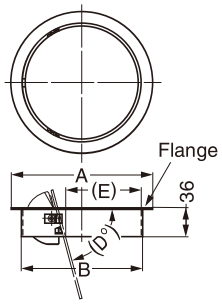



## Installation

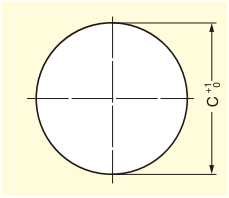




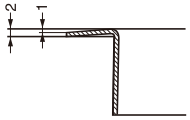




## Cut Out Dimensions




## Flange




| Item Code | Item Name | Material | Finish | A | B | C | D | E | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-029-219 | AD-GD011-HL | Stainless Steel (SUS304) | Satin | 136 | 106 | 107 | 87 | 62 | 460 g | 1 pc | 10 pcs |
| 210-022-107 | AD-GD015-HL | Stainless Steel (SUS304) | Satin | 170 | 146 | 147 | 75 | 90 | 1000 g | 1 pc | 10 pcs |
| 210-041-472 | AD-GD020-HL | Stainless Steel (SUS304) | Satin | 220 | 196 | 198 | 80 | 128 | 1060 g | 1 pc | 6 pcs |

# LAMP. MULTI-PURPOSE LID AD-DH015-HL

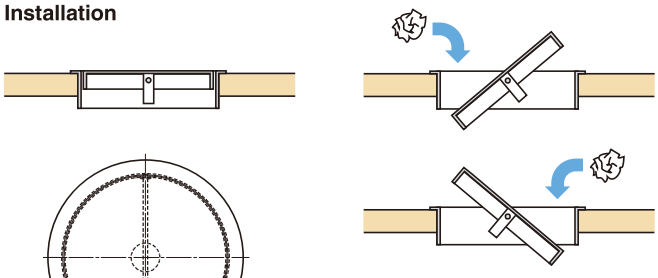
Latest Info

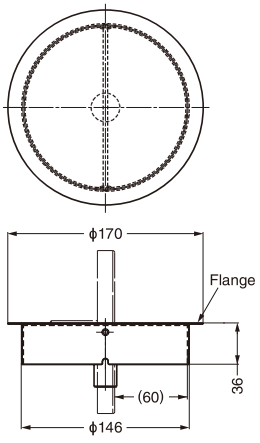


- 360˚rotation.
- Corrosion resistant.

SUS

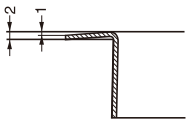
## Installation



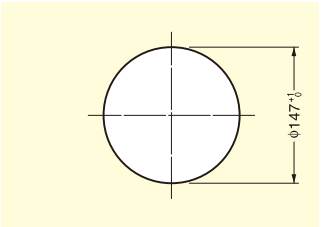





## Flange




## Cut Out Dimensions




| Item Code | Item Name | Material | Finish | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-170-079 | AD-DH015-HL | Stainless Steel (SUS304) | Satin | 560 g | 1 pc | 10 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. MULTI-PURPOSE LID (W/DAMPER) AD-KH

Latest Info




- With damper to keep lid from slamming shut.
- New types are now available. (AD-KH020-HL and AD-KH028-HL)
- Made of stainless steel for corrosion resistance. Available in areas exposed to water.
- Wide opening.
- Balance weight restores lid to horizontal position.

Feature

SUS

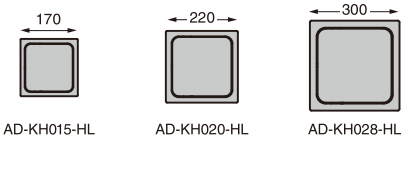
## Specifications

- Operating temperature: 0˚C~40˚C

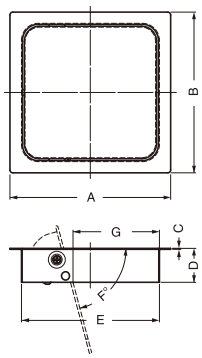
## Remarks

- Indoor use only.
- The closing speed varies depending on the operating temperature. For product stored below the freezing point, leave it indoor above 0˚C for several hours before use.

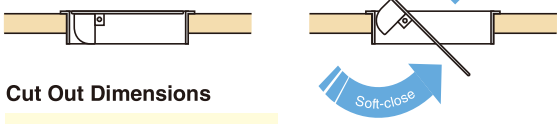




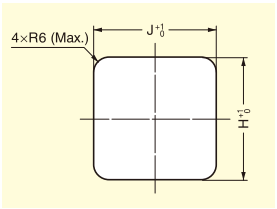

AD-KH015-HL AD-KH020-HL AD-KH028-HL




## Installation




## Cut Out Dimensions




| Item Code | Item Name | Material | Finish | A | B | C | D | E | F | G | H | J | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-022-108 | AD-KH015-HL | Stainless Steel (SUS304) | Satin | 170 | 170 | 1.2 | 36 | 146 | 80 | 93 | 147 | 147 | 970 g | 1 pc | 10 pcs |
| 210-037-893 | AD-KH020-HL | Stainless Steel (SUS304) | Satin | 220 | 220 | 1.2 | 50 | 196 | 77 | 127 | 197 | 197 | 1400 g | 1 pc | 6 pcs |
| 210-037-894 | AD-KH028-HL | Stainless Steel (SUS304) | Satin | 300 | 300 | 1.2 | 72 | 276 | 80 | 191 | 277 | 277 | 2700 g | 1 pc | 4 pcs |

# LAMP. MULTI-PURPOSE LID (W/DAMPER) AZ-GD232-HL

Latest Info

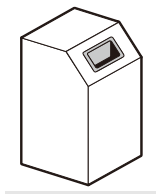


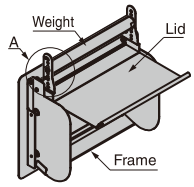

- Lid equipped with damper.
- Able to install the lid with angle of 85 to 45 degrees.
- Installed with anti-pinching plates.
- Corrosion resistant.

## Remarks

- Operating temperature: 0˚C - 40˚C

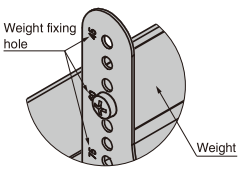
Feature



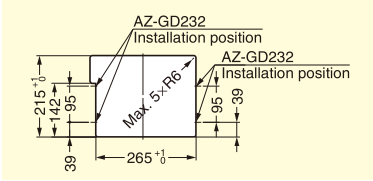


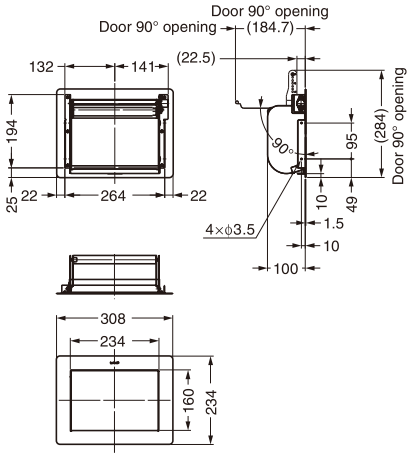







## Cut Out Dimensions




| Item Code | Item Name | Material | Finish | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-032-975 | AZ-GD232-HL | Stainless Steel (SUS304) | Satin | 2200 | 1 pc | 10 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. TOUCHLESS MULTI-PURPOSE LID AZ-AT NEW

Latest Info

Soft-close

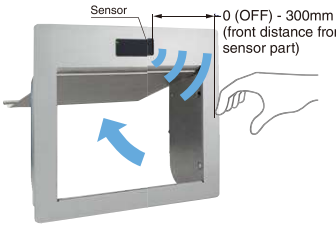


interzum Award High product quality

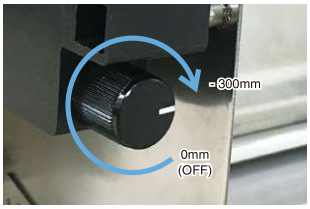
- The lid opens automatically when the sensor detects a hand. Touchless opening and closing is hygienic (green light in sensor part normally lit).
- Sensing distance can be adjusted up to 300mm with dial on back. Turn the sensor off to disable automatic opening/closing.
- With soft-closing function.
- Plates on both sides of the opening offer protection against hand pinching.
- Can be opened and closed manually in the case of a power failure.

INSTRUCTION SUS

Feature

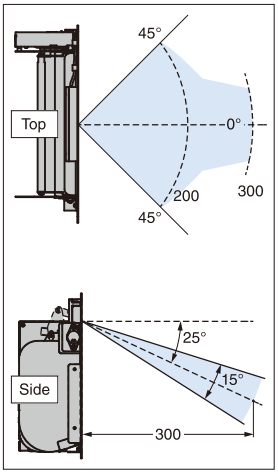


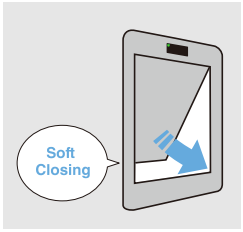

The lid opens automatically when the sensor detects a hand.




Sensing distance can be adjusted from 0 (OFF) to 300mm with dial on bottom back.

## Sensing Distance Image




With soft-closing for safety.

## Specifications

- Operating temperature: 0°C~40°C
- Passed 150,000 private cycle open/close tests.

## Remarks

- For vertical use only.
- Indoor use only.
- The closing speed varies depending on the operating temperature. For products stored below the freezing point, leave indoors above 0°C for several hours before use.
- Do not put anything in front of the sensor. Due to the characteristics of the sensor, the sensing distance varies depending on the object.
- Do not touch the lid while it is opening or closing.
- When using around water, protect the AC adapter on the back and the drive unit thoroughly to prevent them from getting wet.

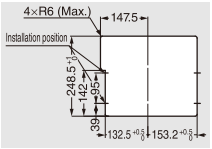
## Recommended AC Adaptor

- Output DC15V 1.6A, Center positive

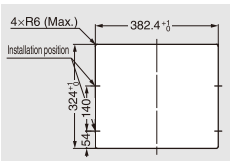
## Recommended Screws

- Pan head tapping screw (nominal 3) or pan head machine screw M3

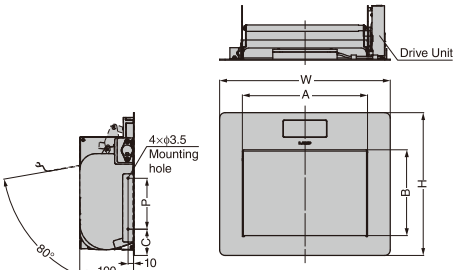
## Cut Out Dimensions




AZ-AT230-HL




AZ-AT310-HL




Body

### Body

| Item Code | Item Name | Material | Finish | A | B | W | H | C | P | Weight (g) |
|---|---|---|---|---|---|---|---|---|---|---|
| 210-048-695 | AZ-AT230-HL | Stainless Steel (SUS304) | Satin | 234 | 160 | 319 | 266.5 | 49 | 95 | 3000 |
| 210-048-696 | AZ-AT310-HL | | | 310 | 220 | 395 | 340 | 64 | 140 | 4500 |

# LID HOLDER AZ-ST NEW

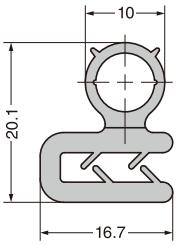
Latest Info



## Installation



Two pieces are used in the photo.




- Simple holder which keeps multi-purpose lids open.
- Retrofitting and removal are also easy, as adhesive is not required.
- Highly resistant to climate and chemicals.

## Specifications

- Operating temperature: -60°C - 100°C

## Remarks

- Do not apply excess force to the opening stay.

## Compatible Parts

- Stainless Steel Multi-Purpose Lid with Damper AZ-GD232-HL (P.981)
- Stainless Steel Multi-Purpose Lid with Damper AZ-GD (P.983)
- Stainless Steel Multi-Purpose Lid with Damper AZ-GD231-HL (P.984)
- Multi-Purpose Lid with Damper AZ-GD230L-HL (P.985)

Left/right installation is recommended; purchase two pieces.

| Item Code | Item Name | Material | Colour | Length | Weight (g) |
|---|---|---|---|---|---|
| 210-049-775 | AZ-ST | Olefin-based Elastomer/ Polypropylene (PP) | Black | 100 | 13.5 |



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 MULTI-PURPOSE LID AZ-GD With Damper

Latest Info

Soft-close



AZ-GD180-HL (Slim Frame) | AZ-GD230-HL | AZ-GD310-HL | AZ-GD400-HL (Slim Frame)



AZ-GD230-BL | AZ-GD310-BL

- Lid equipped with damper.
- Installed with anti-pinching plates.
- Corrosion resistant.

SUS

## Remarks

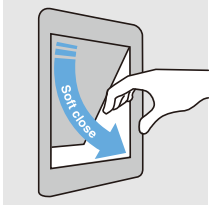
- Operating temperature: 0˚C - 40˚C
- Please avoid excessive impact or friction during the opening and closing process. Scratches or peeling of the paint may occur.

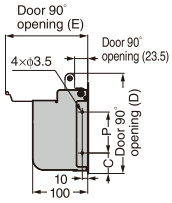
## Sold Separately

- Guide:AZ-SLP(P.984)

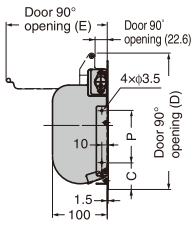
Feature



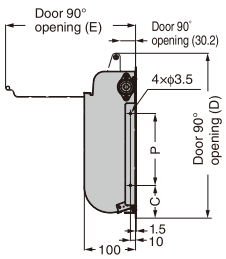


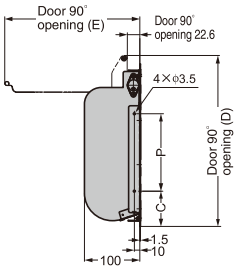

AZ-GD180-HL



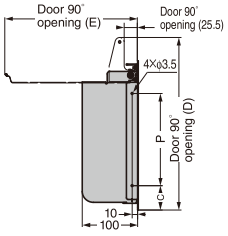

AZ-GD230-HL
AZ-GD230-BL



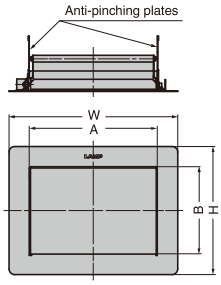

AZ-GD310-HL



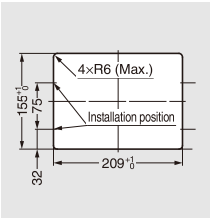

AZ-GD310-BL



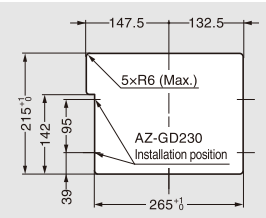

AZ-GD400-HL



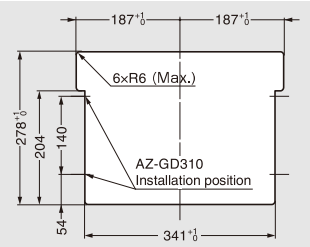

## Cut Out Dimensions



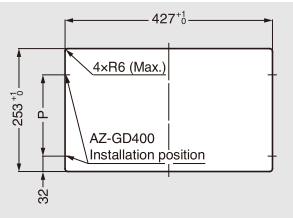

AZ-GD180-HL




AZ-GD230-HL
AZ-GD230-BL




AZ-GD310-HL
AZ-GD310-BL




AZ-GD400-HL

| Item Code | Item Name | Material | Finish | A | B | W | H | C | D | E | P | Weight (g) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-033-487 | AZ-GD180-HL | Stainless Steel (SUS304) | Satin | 182 | 128 | 218 | 164 | 37 | 182 | 149.5 | 75 | 1042 |
| 210-017-089 | AZ-GD230-HL | | | 234 | 160 | 308 | 234 | 49 | 249 | 184.7 | 95 | 1486 |
| 210-055-318 | AZ-GD230-BL | | Black | | | | | | | | | |
| 210-022-110 | AZ-GD310-HL | | Satin | 310 | 220 | 384 | 294 | 64 | 322 | 253.4 | 140 | 2236 |
| 210-055-319 | AZ-GD310-BL | | Black | | | | | | 310 | 244.7 | | |
| 210-041-314 | AZ-GD400-HL | | Satin | 400 | | 450 | 270 | 44 | 312 | 240.5 | 167 | 2236 |

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. MULTI-PURPOSE LID (W/DAMPER) AZ-GD231-HL

Latest Info

Soft-close



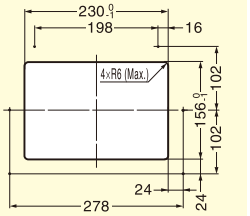
- Lid equipped with damper.
- Installed with anti-pinching plates.

SUS

### Remarks
- Indoor use only.
- Operating temperature: 0˚C - 40˚C.

Feature

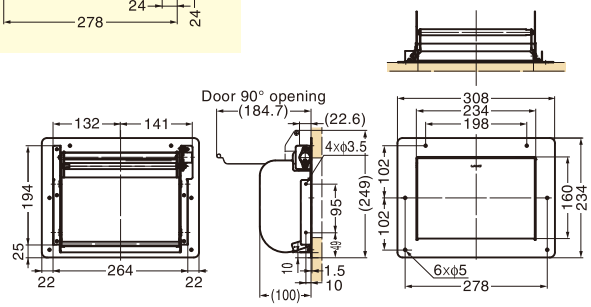
### Cut Out Dimensions




### Application Example








| Item Code | Item Name | Material | Finish | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-027-508 | AZ-GD231-HL | Stainless Steel (SUS304) | Satin | 1486 g | 1 pc | 10 pcs |

# LAMP. GUIDE FOR MULTI-PURPOSE LID AZ-SLP

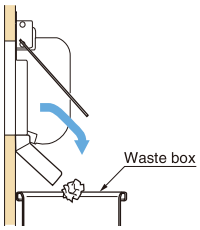
Latest Info

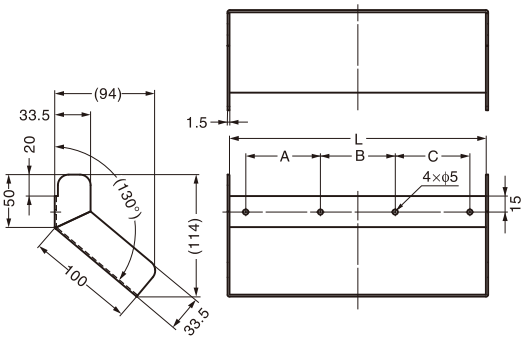


- Guides garbage into waste box inside.

SUS

### Installation




### Application Example



| Item Code | Item Name | Compatible Items | Material | Finish | L | A | B | C | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-026-554 | AZ-SLP230 | AZ-GD230, AZ-GD231, AZ-HD230, AZ-ND230 | Stainless Steel (SUS304) | Plain | 241 | 70 | 70 | 70 | 450 g | 1 pc | 20 pcs |
| 210-026-555 | AZ-SLP310 | AZ-GD310, AZ-HD310, AZ-ND310 | Stainless Steel (SUS304) | Plain | 317 | 80 | 80 | 80 | 570 g | 1 pc | 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. MULTI-PURPOSE LIDS W/DAMPER (W/KEY) AZ-GD230L-HL

Latest Info

Soft-close





- The lid opening can be locked shut, preventing unauthorised substances from being inserted. This makes it easy to limit access to the waste area and prevent unintended uses.
- The indicator turns red when locked.
- The square type quarter turn lock makes it easy to remove obstructions such as chewing gum.
- Fitted with a vibration reduction mechanism to significantly reduce wobbling and clicking sounds.
- Soft-close functionality. Built-in damper causes lid to gently close when released, preventing slamming sounds.
- Side plates on the plate interior prevent fingers from getting stuck or pinched when lid closes.
- Designed for vertical use.
- Optional inlet guide to prevent items from falling out. (Sold separately)

INSTRUCTION SUS

Feature Feature

## Specifications
- Operating temperature: 0°C - 40°C

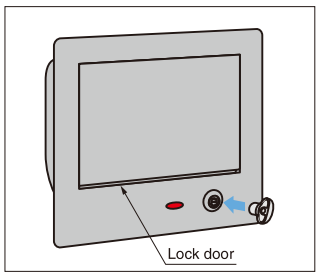
## Application
- Dining areas on trains and in public locations including railway stations, retail facilities, and convenience stores.

## Remarks
- Cannot be used outdoors.
- The closing speed of the cover varies depending on the temperature of the operating environment. If the product has been stored in subzero temperatures, expose it to indoor temperatures of 0°C or higher for several hours before use.

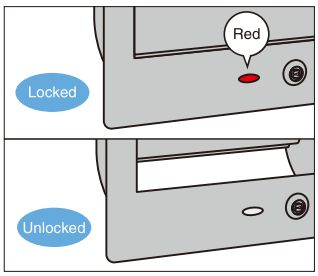
## Parts Included
- Key (200-0403), cautionary sticker, instruction manual

## Optional Parts
- AZ-SLP230 Inlet Guide (Sold separately)

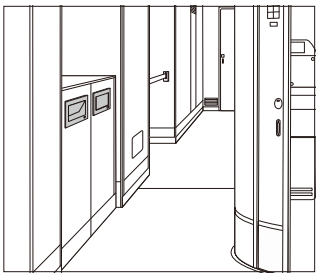
## Recommended Screw
- Pan head tapping screws (nominal size 3) or pan head M3 screws (4 pcs)



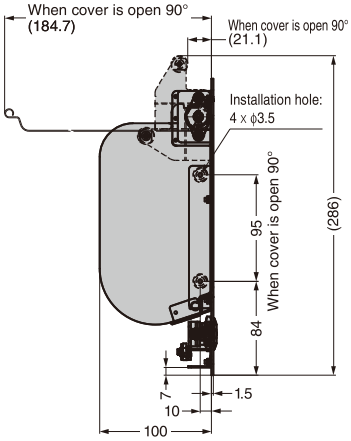
The cover of the inlet can be locked shut, preventing unauthorised substances from being inserted. This makes it easy to limit use of the waste chute to the intended purpose.

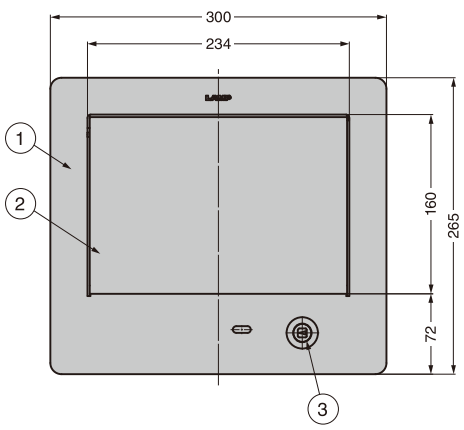


The indicator is red when locked.

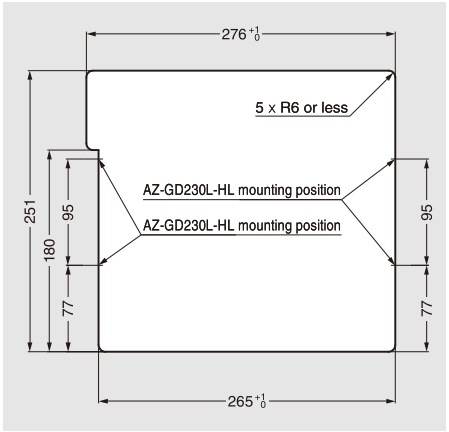

Recommended for settings such as on-board transportation, where restricted usage of waste chutes is often required.


Key is 100 - 90 type.




## Installation Hole Dimensions




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Front Plate | Stainless Steel (SUS304) | Satin |
| ② | Cover | | |
| ③ | Lock | Zinc Alloy/Steel | Chrome Plating/Gloss Chromate Finish |

| Item Code | Item Name | Material | Finish | Weight (g) | Box (pc) | Carton (pcs) |
|---|---|---|---|---|---|---|
| 210-037-892 | AZ-GD230L-HL | Stainless Steel (SUS304) | Satin | 2250 | 1 | 6 |

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. MULTI-PURPOSE LID (DOUBLE DOOR) AZ-DD310-HL

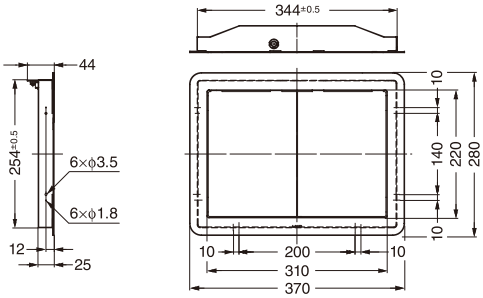
Latest Info



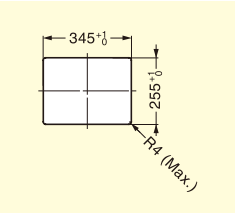


- Synchronized doors allow easy opening.
- Spring loaded for self-closing.
- Corrosion resistant.

SUS




### Cut Out Dimensions




| Item Code | Item Name | Material | Finish | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-180-600 | AZ-DD310-HL | Stainless Steel (SUS304) | Satin | 2000 g | 1 pc | 10 pcs |

## LAMP. MULTI-PURPOSE LID (W/HANDLE) AZ-HD

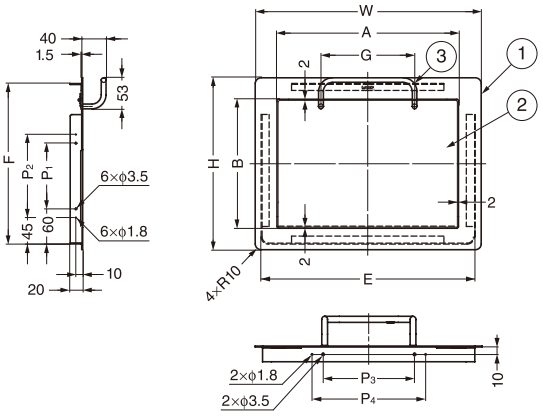
Latest Info



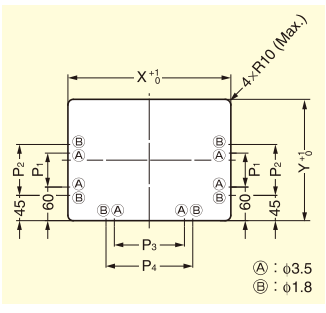


- Easy opening with handle.
- Corrosion resistant.

SUS




### Cut Out Dimensions




| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Front Plate | Stainless Steel (SUS304) | Satin |
| ② | Door | | Satin |
| ③ | Handle | | Satin |

| Item Code | Item Name | Material | Finish | A | B | W | H | E | F | G | P1 | P2 | P3 | P4 | X | Y | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-180-601 | AZ-HD230-HL | Stainless Steel (SUS304) | Satin | 234 | 160 | 308 | 234 | 288 | 214 | 120 | 60 | 90 | 124 | 154 | 289 | 215 | 540 g | 1 pc | 10 pcs |
| 210-180-602 | AZ-HD310-HL | Stainless Steel (SUS304) | Satin | 310 | 220 | 384 | 294 | 364 | 274 | 160 | 112 | 142 | 200 | 230 | 365 | 275 | 2200 g | 5 pcs | 10 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 RING COVER FOR REFUSE BOX AN-DH, AN-LH

Latest Info



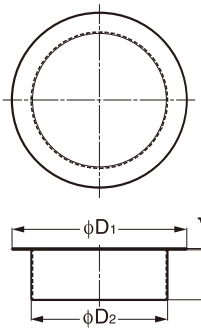


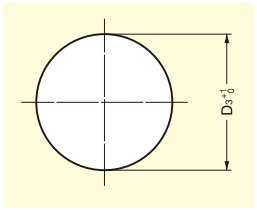


- Corrosion resistant.
- Wide variations (Size/Depth/Finish)

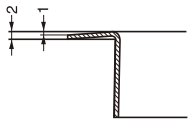
SUS

## Cut Out Dimensions



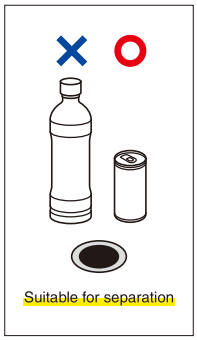



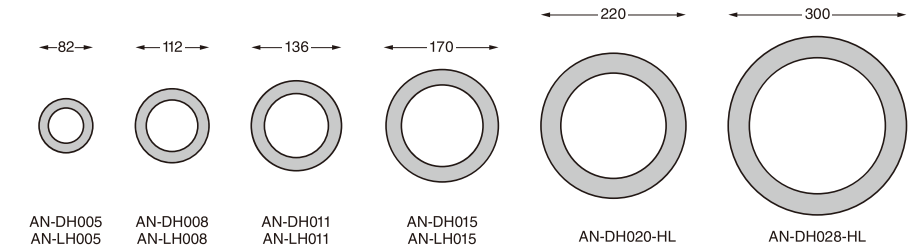

## Flange




## Installation






## AN-DH: Deep Type

| Item Code | Item Name | Material | Finish | A | D1 | D2 | D3 | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|
| 210-032-779 | AN-DH005-GP | Stainless Steel (SUS304) | Gold | 36 | 82 | 58 | 59 | 66 g | 1 pc | 50 pcs |
| 210-032-780 | AN-DH005-MR | | Mirror | | | | | | 1 pc | 100 pcs |
| 210-032-781 | AN-DH005-HL | | Satin | | | | | | 1 pc | 100 pcs |
| 210-022-094 | AN-DH008-GP | | Gold+Clear | | 112 | 82 | 83 | 107 g | 1 pc | 10 pcs |
| 210-022-095 | AN-DH008-MR | | Mirror | | | | | | 1 pc | 10 pcs |
| 210-022-096 | AN-DH008-HL | | Satin | | | | | | 1 pc | 10 pcs |
| 210-170-078 | AN-DH011-GP | | Gold+Clear | 40 | 136 | 106 | 107 | 137 g | 1 pc | 10 pcs |
| 210-170-076 | AN-DH011-MR | | Mirror | | | | | | 1 pc | 10 pcs |
| 210-170-077 | AN-DH011-HL | | Satin | | | | | | 1 pc | 10 pcs |
| 210-172-533 | AN-DH015-GP | | Gold+Clear | 36 | 170 | 146 | 147 | 182 g | 1 pc | 10 pcs |
| 210-172-532 | AN-DH015-MR | | Mirror | | | | | | 1 pc | 10 pcs |
| 210-172-531 | AN-DH015-HL | | Satin | | | | | | 1 pc | 10 pcs |
| 210-044-812 | AN-DH020-HL | | Satin | | 220 | 196 | 198 | 230 g | 1 pc | 6 pcs |
| 210-044-813 | AN-DH028-HL | | Satin | | 300 | 276 | 278 | 290 g | 1 pc | 4 pcs |

## AN-LH: Shallow Type

| Item Code | Item Name | Material | Finish | A | D1 | D2 | D3 | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|
| 210-032-782 | AN-LH005-GP | Stainless Steel (SUS304) | Gold | 22 | 82 | 58 | 59 | 50 g | 1 pc | 50 pcs |
| 210-032-783 | AN-LH005-MR | | Mirror | | | | | | 1 pc | 100 pcs |
| 210-032-784 | AN-LH005-HL | | Satin | | | | | | 1 pc | 100 pcs |
| 210-022-097 | AN-LH008-GP | | Gold+Clear | | 112 | 82 | 83 | 77 g | 1 pc | 10 pcs |
| 210-022-098 | AN-LH008-MR | | Mirror | | | | | | 1 pc | 10 pcs |
| 210-022-099 | AN-LH008-HL | | Satin | | | | | | 1 pc | 10 pcs |
| 210-022-100 | AN-LH011-GP | | Gold+Clear | | 136 | 106 | 107 | 92 g | 1 pc | 10 pcs |
| 210-022-101 | AN-LH011-MR | | Mirror | | | | | | 1 pc | 10 pcs |
| 210-022-102 | AN-LH011-HL | | Satin | | | | | | 1 pc | 10 pcs |
| 210-022-103 | AN-LH015-GP | | Gold+Clear | | 170 | 146 | 147 | 122 g | 1 pc | 10 pcs |
| 210-022-104 | AN-LH015-MR | | Mirror | | | | | | 1 pc | 10 pcs |
| 210-022-105 | AN-LH015-HL | | Satin | | | | | | 1 pc | 10 pcs |

*AN-DH008·AN-LH008 = AN-DH001·AN-LH001 (Previous item name).

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.

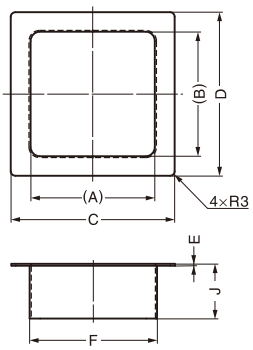
# LAMP. SQUARE COVER FOR REFUSE BOX AN-KH

Latest Info

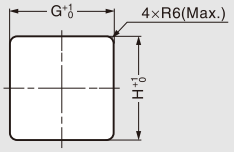


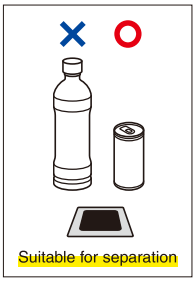

- Corrosion resistant.

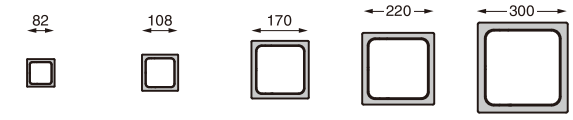
SUS




## Cut Out Dimensions




| Item Code | Item Name | Material | Finish | A | B | C | D | E | F | G | H | J | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-032-785 | AN-KH005-HL | Stainless Steel (SUS304) | Satin | 56 | 56 | 82 | 82 | 1.2 | 58 | 59 | 59 | 36 | 87 g | 1 pc | 150 pcs |
| 210-028-436 | AN-KH008-HL | Stainless Steel (SUS304) | Satin | 82 | 82 | 108 | 108 | 1.2 | 84 | 85 | 85 | 36 | 126 g | 1 pc | 10 pcs |
| 210-022-109 | AN-KH015-HL | Stainless Steel (SUS304) | Satin | 144 | 144 | 170 | 170 | 1.2 | 146 | 147 | 147 | 36 | 217 g | 1 pc | 10 pcs |
| 210-037-895 | AN-KH020-HL | Stainless Steel (SUS304) | Satin | 194 | 194 | 220 | 220 | 1.2 | 196 | 197 | 197 | 50 | 388 g | 1 pc | 6 pcs |
| 210-037-896 | AN-KH028-HL | Stainless Steel (SUS304) | Satin | 274 | 274 | 300 | 300 | 1.2 | 276 | 277 | 277 | 72 | 733 g | 1 pc | 6 pcs |

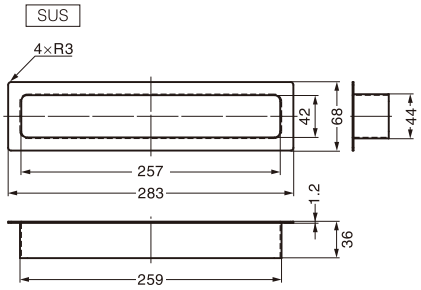
# LAMP. MULTI-PURPOSE GROMMET AN-SH026-HL

Latest Info

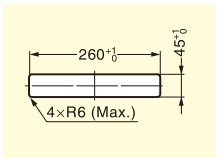


- Corrosion resistant.
- Ideal for magazine/news paper waste box.

SUS

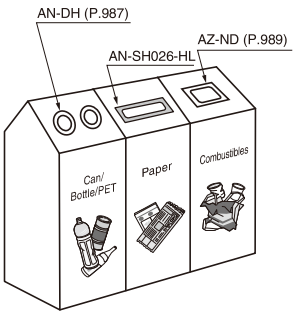



## Cut Out Dimensions










| Item Code | Item Name | Material | Finish | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-028-437 | AN-SH026-HL | Stainless Steel (SUS304) | Satin | 290 g | 1 pc | 10 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.

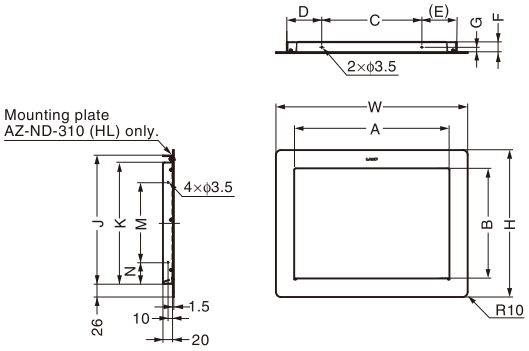
# LAMP. SQUARE COVER FOR REFUSE BOX AZ-ND

Latest Info

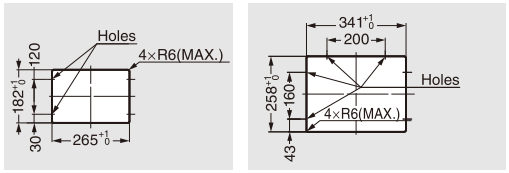



- Corrosion resistant.

SUS




## Cut Out Dimensions




AZ-ND230-HL AZ-ND310-HL

| Item Code | Item Name | Material | Finish | A | B | W | H | C | D | E | F | G | J | K | M | N | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-017-986 | AZ-ND230-HL | Stainless Steel (SUS304) | Satin | 234 | 160 | 308 | 234 | – | – | – | – | – | – | 170 | 120 | 30 | 720 g | 1 pc | 10 pcs |
| 210-026-553 | AZ-ND310-HL | Stainless Steel (SUS304) | Satin | 310 | 220 | 384 | 294 | 200 | 70 | 70 | 20 | 10 | 257 | 243 | 160 | 43 | 1050 g | 1 pc | 10 pcs |

# LAMP. STAINLESS STEEL FUNNEL AE-DH

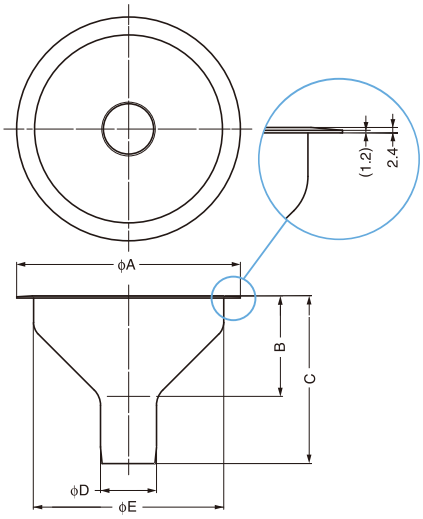
Latest Info



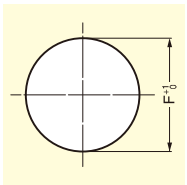

SUS

### Sold Separately

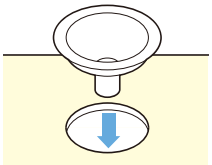
- Hose:AE-DH4540-1(P.990)
- Strainer:AE-DH020K-45(P.990)



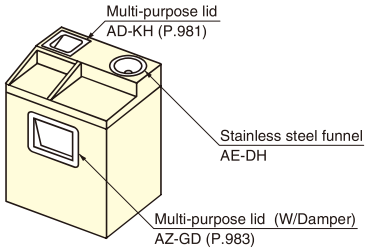

### Cut Out Dimensions




### Easy Installation



### Application Example




| Item Code | Item Name | A | B | C | D | E | F | Material | Finish | Hose Diameter | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-026-556 | AE-DH015-MR | 150 | 55 | 95 | 38 | 120 | 121 | Stainless Steel (SUS304) | Mirror | ϕ38 | 270 g | 1 pc | 12 pcs |
| 210-026-557 | AE-DH015-HL | 150 | 55 | 95 | 38 | 120 | 121 | Stainless Steel (SUS304) | Satin | ϕ38 | 270 g | 1 pc | 12 pcs |
| 210-022-106 | AE-DH020-MR | 200 | 90 | 150 | 50 | 170 | 171 | Stainless Steel (SUS304) | Mirror | ϕ50 | 490 g | 1 pc | 12 pcs |
| 210-023-509 | AE-DH020-HL | 200 | 90 | 150 | 50 | 170 | 171 | Stainless Steel (SUS304) | Satin | ϕ50 | 490 g | 1 pc | 12 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.

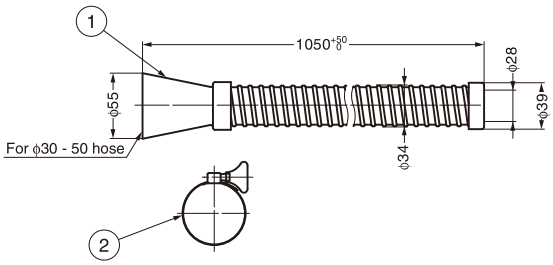
# HOSE FOR AE-DH AE-DH4540-1

Latest Info



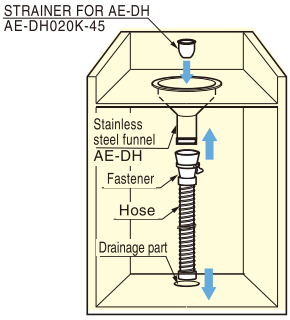
## Remarks

- Operating temperature: 1˚C - 60˚C.




## Application Example






| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Hose | Polyvinyl Chloride Resin (PVC) | Grey |
| ② | Fastener | Stainless Steel | Plain |

| Item Code | Item Name | Weight | Box | Carton |
|---|---|---|---|---|
| 210-026-942 | AE-DH4540-1 | 170 g | 10 pcs | 50 pcs |

# STRAINER FOR AE-DH AE-DH020K-45

Latest Info

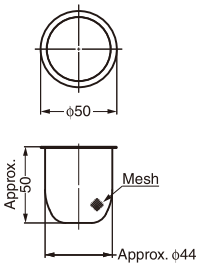




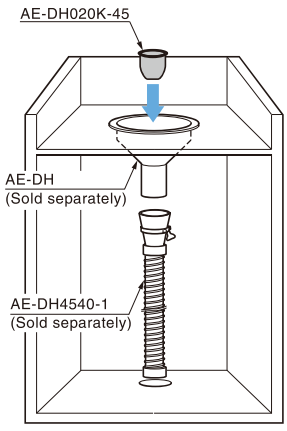

SUS

## Remarks

- Sold per 2 pieces.
- For AE-DH020 (P.989).




## Application Example




| Item Code | Item Name | Material | Finish | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-032-187 | AE-DH020K-45 | Stainless Steel (SUS304) | Polished | 8 g | 20 pcs/10 sets | 120 pcs/60 sets |


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.

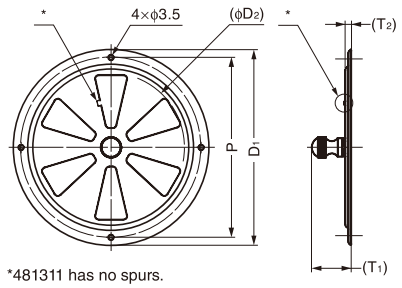
# STAINLESS STEEL ADJUSTABLE VENTILATOR 4813

Latest Info



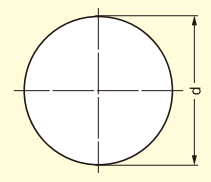

- Air flow is adjustable by turning the knob.
- The knob is tight for anti-vibration.

SUS




*481311 has no spurs.

**Cut Out Dimensions**




| Item Code | Item Name | Material | Finish | $D_1$ | $D_2$ | P | $T_1$ | $T_2$ | d | Max. Exhaust Area | Weight | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-028-882 | 481311 | Stainless Steel (SUS304) | Satin | 102 | 77 | 92 | 24.4 | 2.7 | 77 - 80 | ≈ 1835 mm² | 61 g | 300 pcs |
| 210-028-881 | 481312 | Stainless Steel (SUS304) | Satin | 127 | 95 | 117 | 25.6 | 3.9 | 95 - 100 | ≈ 2860 mm² | 86 g | 200 pcs |

# STAINLESS STEEL VENTILATOR 4814

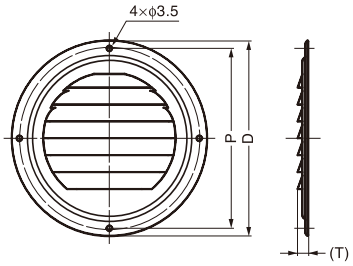
Latest Info



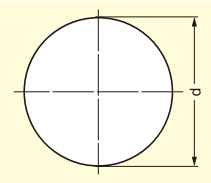

SUS

**Optional Parts**

- Stainless steel ventilator cover 4818 (P.991).




**Cut Out Dimensions**




| Item Code | Item Name | Material | Finish | D | P | T | d | Max. Exhaust Area | Weight | Carton |
|---|---|---|---|---|---|---|---|---|---|---|
| 210-028-880 | 481440 | Stainless Steel (SUS304) | Satin | 102 | 92 | 5 | 77 - 80 | ≈ 750 mm² | 38 g | 500 pcs |
| 210-028-879 | 481430 | Stainless Steel (SUS304) | Satin | 127 | 117 | 7 | 95 - 100 | ≈ 1250 mm² | 59 g | 300 pcs |

# STAINLESS STEEL VENTILATOR COVER 4818

Latest Info

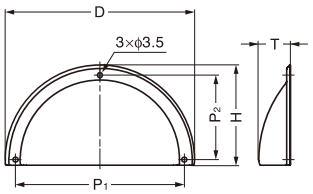




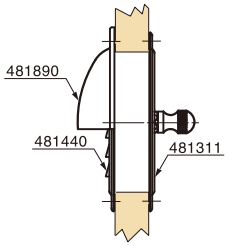


- For 4814 ventilator (P.991), prevents influx of rainwater.

SUS




**Application Example**




| Item Code | Item Name | Use With | Material | Finish | D | H | $P_1$ | $P_2$ | T | Weight | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-028-884 | 481890 | 481440 (P.991) | Stainless Steel (SUS304) | Satin | 107 | 57 | 92 | 46 | 20 | 40 g | 300 pcs |
| 210-028-883 | 481850 | 481430 (P.991) | Stainless Steel (SUS304) | Satin | 131 | 69 | 117 | 58.5 | 22 | 60 g | 300 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.

# STAINLESS STEEL VENTILATOR 480970

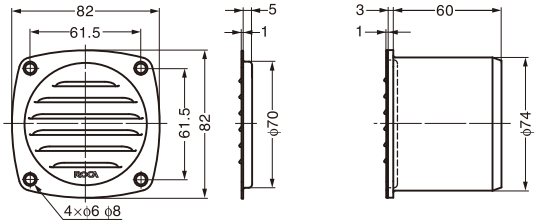
Latest Info


480970 480966 (Optional Parts)

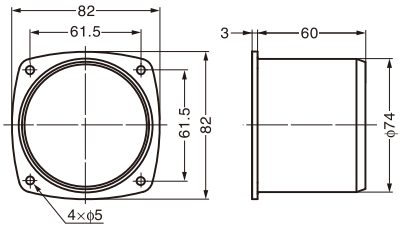

480970 with adaptor

- Made of SUS316 for excellent corrosion resistance.
- Can be used with adaptor (optional parts).

SUS316

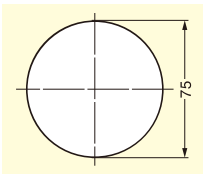


Ventilator With adaptor



Adaptor

**Cut Out Dimensions**




### Ventilator Body

| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Carton |
|---|---|---|---|---|---|---|
| 210-028-877 | 480970 | Stainless Steel (SUS316) | Satin | ≈ 1600 mm² | 51 g | 300 pcs |

### Adaptor (Optional Parts)

| Item Code | Item Name | Material | Colour | Weight | Carton |
|---|---|---|---|---|---|
| 210-028-878 | 480966 | Polyamide (PA) | White | 51 g | 100 pcs |

# VENTILATOR 4872

Latest Info


487220 487200

When ventilating


Push the knob.

When un-ventilating


Pull the knob.

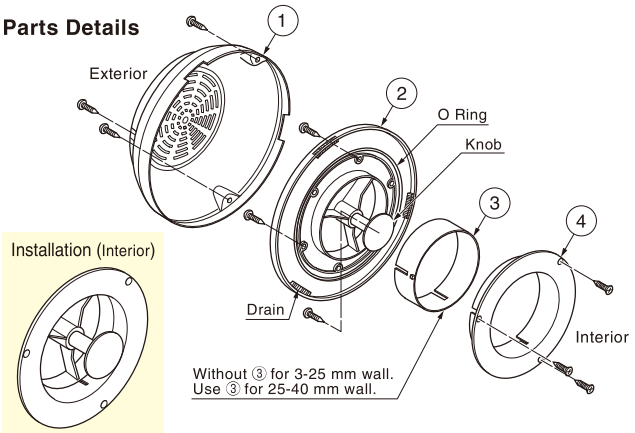
- Can be used for the exterior due to the water protector.
- Can be used both for wooden wall and sheet metal wall. Please arrange the bolts and nuts when using with sheet metal.

SCREW

### Parts Included

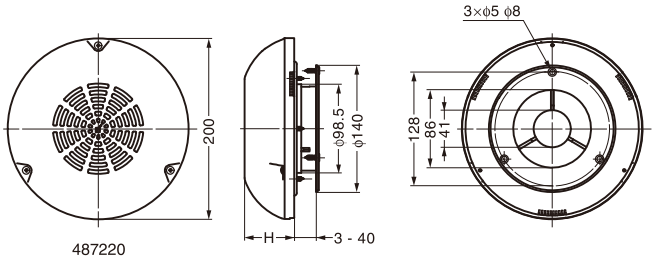
- Pan head tapping screw 4×12 (3 pcs) / for Cover ① on Base ②
- Pan head tapping screw 4×18 (3 pcs) / for Cover ② on the wall
- Raised countersunk head tapping screw 4×16 (3 pcs) / for Fringe ④ on the wall

### Parts Details

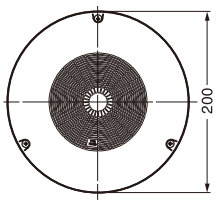



Installation (Interior)



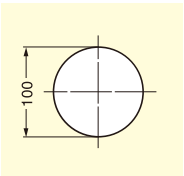


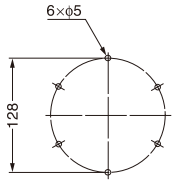
487220



487200

**Cut Out Dimensions**



Installation position of Base ②

| Item Code | Item Name | Material | Colour | H | Wall Thickness | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|
| 210-028-886 | 487220 | Stainless Steel (SUS304) | Satin | 55 | 3 - 40 | ≈ 3055 mm² | 490 g | 1 pc | 30 pcs |
| 210-028-885 | 487200 | Polypropylene (PP) | Off-white | 62 | 3 - 40 | ≈ 5032 mm² | 420 g | 1 pc | 30 pcs |

| No. | Part Name | Material | Colour |
|---|---|---|---|
| ① | Cover | See the left table | See the left table |
| ② | Base | Polypropylene (PP) | Off-white |
| ③ | Adaptor | Polypropylene (PP) | Off-white |
| ④ | Flange | Polypropylene (PP) | Off-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.

# VENTILATOR 48079, 48176

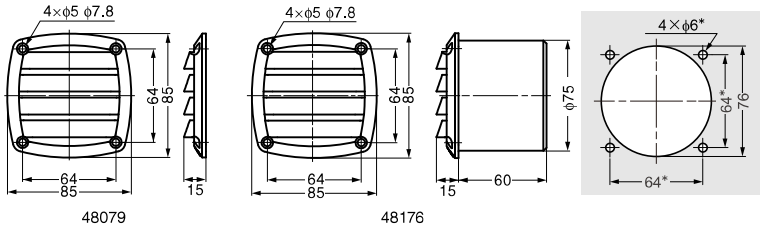
Latest Info




- Standard type and flange type are available.

**Cut Out Dimensions**

*For sheet metal




| Item Code | Item Name | Type | Material | Colour | Max. Exhaust Area | Weight | Carton |
|---|---|---|---|---|---|---|---|
| 210-028-872 | 480794 | Standard | Polyamide (PA) | White | ≈ 962 mm² | 30 g | 500 pcs |
| 210-028-871 | 480792 | Standard | Polyamide (PA) | Black | ≈ 962 mm² | 30 g | 500 pcs |
| 210-028-874 | 481764 | Flange | Polyamide (PA) | White | ≈ 1109 mm² | 85 g | 100 pcs |
| 210-028-873 | 481762 | Flange | Polyamide (PA) | Black | ≈ 1109 mm² | 85 g | 100 pcs |

When current stock runs out, the Max. Exhaust Area will be 935 mm².

# VENTILATOR 48081, 48282

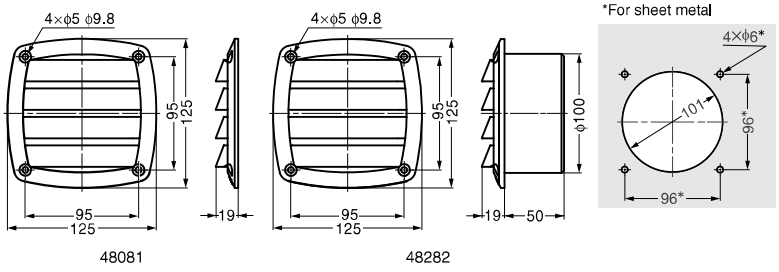
Latest Info




- Standard type and flange type are available.

**Cut Out Dimensions**

*For sheet metal

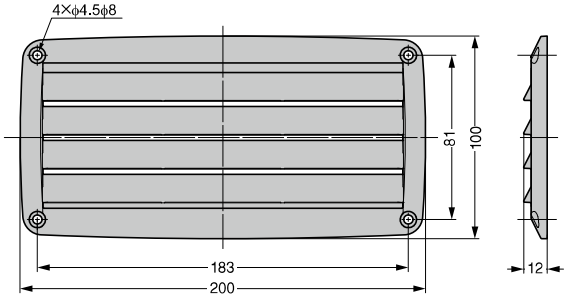



| Item Code | Item Name | Type | Material | Colour | Max. Exhaust Area | Weight | Carton |
|---|---|---|---|---|---|---|---|
| 210-028-868 | 480814 | Standard | Polyamide (PA) | White | ≈ 2210 mm² | 68 g | 200 pcs |
| 210-028-867 | 480812 | Standard | Polyamide (PA) | Black | ≈ 2210 mm² | 68 g | 200 pcs |
| 210-028-870 | 482824 | Flange | Polyamide (PA) | White | ≈ 2210 mm² | 128 g | 100 pcs |
| 210-028-869 | 482822 | Flange | Polyamide (PA) | Black | ≈ 2210 mm² | 128 g | 100 pcs |

# VENTILATOR 48080

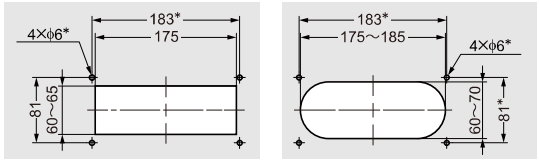
Latest Info




**Cut Out Dimensions**

*For sheet metal




Please process it into a rectangular shape or an oval shape.

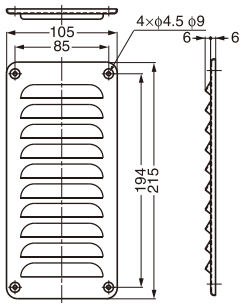
| Item Code | Item Name | Material | Colour | Max. Exhaust Area | Weight | Carton |
|---|---|---|---|---|---|---|
| 210-028-876 | 480804 | Polyamide (PA) | White | ≈ 5357 mm² | 86 g | 200 pcs |
| 210-028-875 | 480802 | Polyamide (PA) | Black | ≈ 5357 mm² | 86 g | 200 pcs |

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.

# STAINLESS STEEL VENTILATOR 1-1122

Latest Info






- Ideal for marine application.

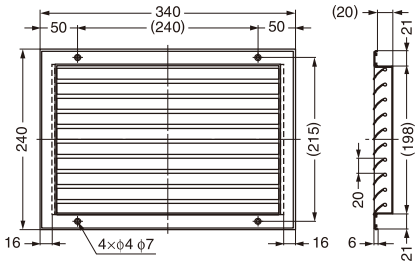
SUS316

| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-172-011 | 1-1122 | Stainless Steel (SUS316) | Satin | ≈ 3700 mm² | 156 g | 20 pcs |

# VENTILATOR G58-3020

Latest Info



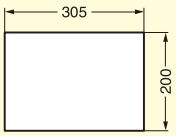



SCREW

**Remarks**
- The edge-finishing may vary. Please be careful with the edge during installation.

**Parts Included**
- Countersunk head tapping screw 3.5×32
- Plug

**Cut Out Dimensions**

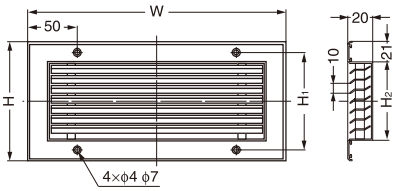



| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-031-730 | G58-3020 | Aluminium Alloy | Silver | ≈ 550 cm² | 578 g | 7 pcs |

# VENTILATOR G57

Latest Info



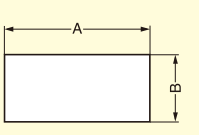



SCREW

**Remarks**
- The edge-finishing may vary. Please be careful with the edge during installation.

**Parts Included**
- Countersunk head tapping screw 3.5×32
- Plug

**Cut Out Dimensions**



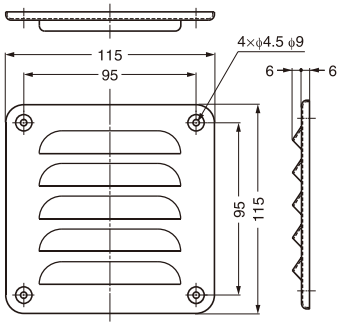

| Item Code | Item Name | Material | Finish | W | H | H₁ | H₂ | A | B | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-031-731 | G57-1707AA | Aluminium Alloy | Silver | 210 | 106 | 85 | 68 | 173 | 73 | ≈ 83 cm² | 208 g | 6 pcs |
| 210-031-732 | G57-2208AA | Aluminium Alloy | Silver | 260 | 116 | 95 | 78 | 223 | 83 | ≈ 120 cm² | 250 g | 4 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.

## STAINLESS STEEL VENTILATOR 1-1212

Latest Info






- Ideal for marine application.

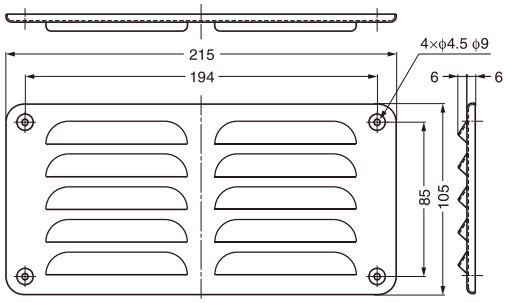
SUS316

| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-172-012 | 1-1212 | Stainless Steel (SUS316) | Satin | ≈ 1900 mm² | 89 g | 20 pcs |

## STAINLESS STEEL VENTILATOR 1-2211

Latest Info






- Ideal for marine application.

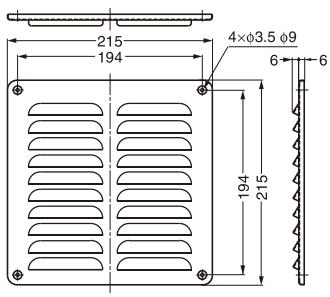
SUS316

| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-172-013 | 1-2211 | Stainless Steel (SUS316) | Satin | ≈ 3700 mm² | 154 g | 20 pcs |

## STAINLESS STEEL VENTILATOR 1-2222

Latest Info






- Ideal for marine application.

SUS316

| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-172-014 | 1-2222 | Stainless Steel (SUS316) | Satin | ≈ 7500 mm² | 315 g | 10 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.

# ADJUSTABLE VENTILATOR 3-2115

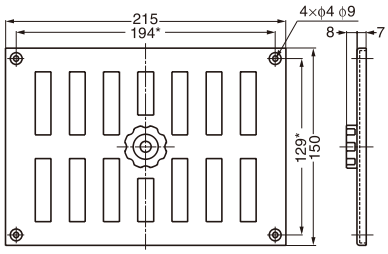
Latest Info



- Air flow is adjustable with the dial.
- Has an aluminium mesh designed to help prevent the entry of dust and insects.

**Remarks**
- The * dimensions may slightly vary. Please check with the actual product.

Feature




| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-172-026 | 3-2115 | Aluminium Alloy | Paint/White | ≈ 7300 mm² | 175 g | 10 pcs |

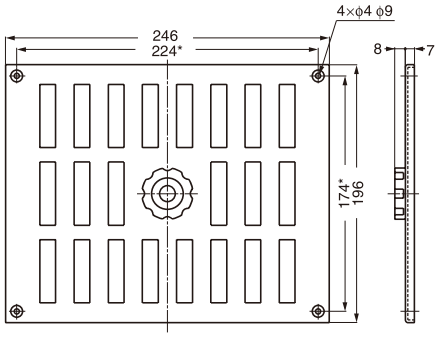
# ADJUSTABLE VENTILATOR 3-2520

Latest Info



- Air flow is adjustable with the dial.
- Has an aluminium mesh designed to help prevent the entry of dust and insects.

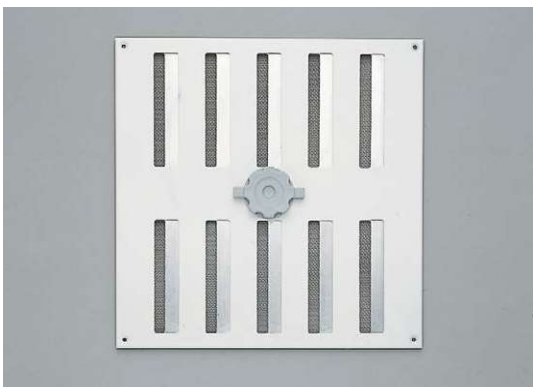
**Remarks**
- The * dimensions may slightly vary. Please check with the actual product.




| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-172-027 | 3-2520 | Aluminium Alloy | Paint/White | ≈ 12000 mm² | 235 g | 10 pcs |

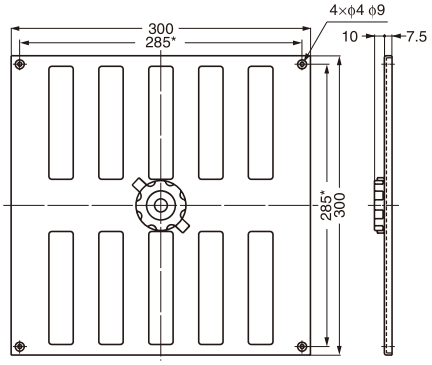
# ADJUSTABLE VENTILATOR 3-3030

Latest Info



- Air flow is adjustable with the dial.
- Has an aluminium mesh designed to help prevent the entry of dust and insects.

**Remarks**
- The * dimensions may slightly vary. Please check with the actual product.




| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-172-018 | 3-3030 | Aluminium Alloy | Paint/White | ≈ 25200 mm² | 460 g | 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.

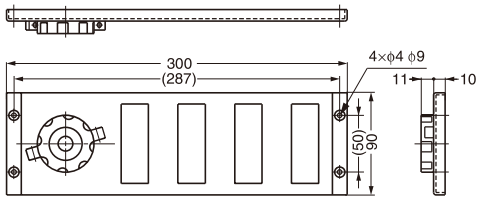
## ADJUSTABLE VENTILATOR 3-3009

Latest Info



- Air flow is adjustable with the dial.
- Has an aluminium mesh designed to help prevent the entry of dust and insects.

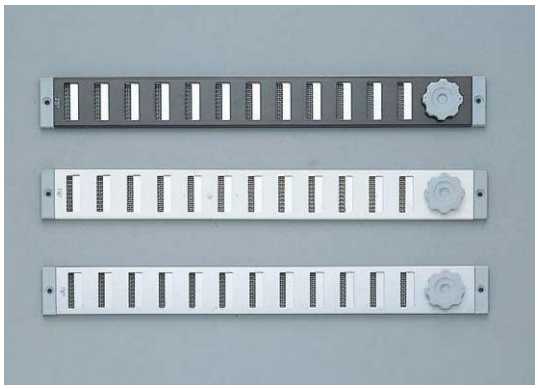
Feature




| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-172-015 | 3-3009WT | Aluminium Alloy | Paint/White | ≈ 6400 mm² | 180 g | 10 pcs |
| 210-172-016 | 3-3009BR | Aluminium Alloy | Paint/Brown | ≈ 6400 mm² | 180 g | 10 pcs |
| 210-172-017 | 3-3009AS | Aluminium Alloy | Silver | ≈ 6400 mm² | 180 g | 10 pcs |

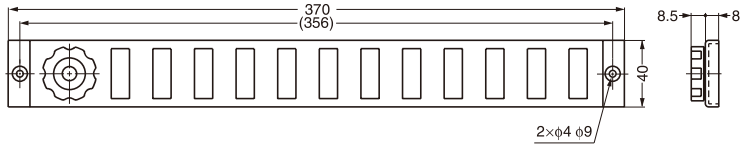
## ADJUSTABLE VENTILATOR 3-3704

Latest Info



- Air flow is adjustable with the dial.
- Has an aluminium mesh designed to help prevent the entry of dust and insects.

Feature



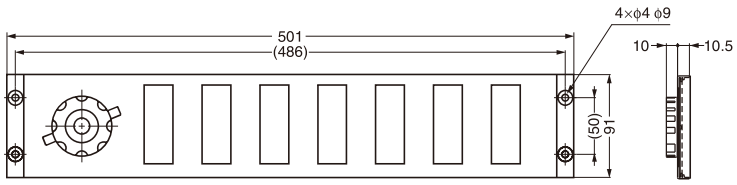

| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-172-019 | 3-3704WT | Aluminium Alloy | Paint/White | ≈ 3900 mm² | 100 g | 20 pcs |
| 210-172-020 | 3-3704BR | Aluminium Alloy | Paint/Brown | ≈ 3900 mm² | 100 g | 20 pcs |
| 210-172-021 | 3-3704AS | Aluminium Alloy | Silver | ≈ 3900 mm² | 100 g | 20 pcs |

## ADJUSTABLE VENTILATOR 3-5009

Latest Info



- Air flow is adjustable with the dial.
- Has an aluminium mesh designed to help prevent the entry of dust and insects.

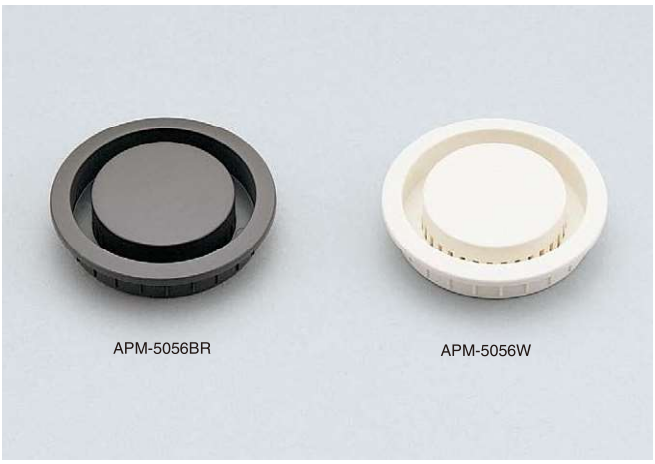



| Item Code | Item Name | Material | Finish | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|
| 210-172-022 | 3-5009WT | Aluminium Alloy | Paint/White | ≈ 11200 mm² | 280 g | 10 pcs |
| 210-172-023 | 3-5009BR | Aluminium Alloy | Paint/Brown | ≈ 11200 mm² | 280 g | 10 pcs |
| 210-172-024 | 3-5009AS | Aluminium Alloy | Silver | ≈ 11200 mm² | 280 g | 10 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.

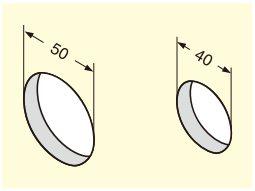
# LAMP VENTILATOR APM

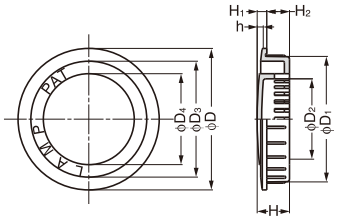
Latest Info

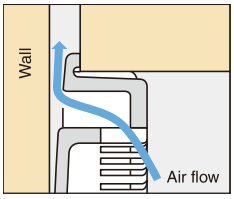



- Insect-proof.

## Cut Out Dimensions



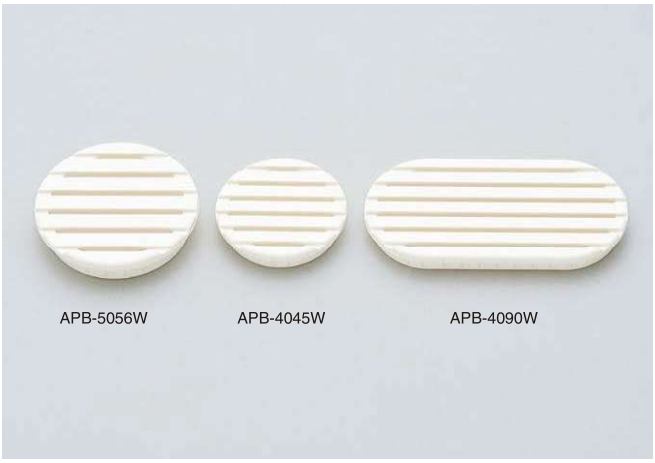




| Item Code | Item Name | Colour | Material | D | $D_1$ | $D_2$ | $D_3$ | $D_4$ | H | $H_1$ | $H_2$ | h | Cut Out Dimensions | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-030-022 | APM-4045BR | Brown | ABS | 45 | 39.8 | 24.6 | 36.2 | 28.2 | 10.3 | 3.3 | 7 | 1.6 | ϕ40 | ≈ 115 mm² | 5 g | 150 pcs | 900 pcs |
| 210-030-021 | APM-4045W | White | ABS | 45 | 39.8 | 24.6 | 36.2 | 28.2 | 10.3 | 3.3 | 7 | 1.6 | ϕ40 | ≈ 115 mm² | 5 g | 150 pcs | 900 pcs |
| 210-030-024 | APM-5056BR | Brown | ABS | 56 | 49.8 | 32 | 46 | 36 | 12.8 | 3.8 | 9 | 1.8 | ϕ50 | ≈ 192 mm² | 9 g | 100 pcs | 600 pcs |
| 210-030-023 | APM-5056W | White | ABS | 56 | 49.8 | 32 | 46 | 36 | 12.8 | 3.8 | 9 | 1.8 | ϕ50 | ≈ 192 mm² | 9 g | 100 pcs | 600 pcs |

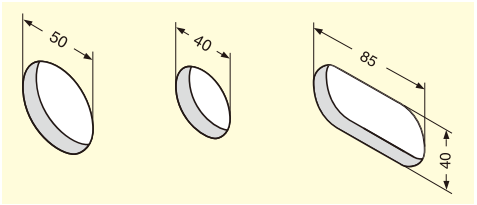
# LAMP VENTILATOR APB

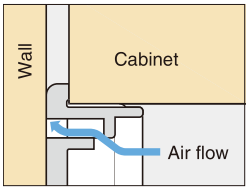
Latest Info



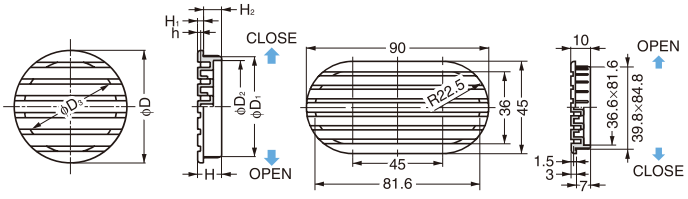

- Insect-proof.
- Slits placed in uneven levels hide the air hole and prevents from seeing beyond.

## Cut Out Dimensions




Allows air flow even if the surface of the ventilator is directly on the wall.



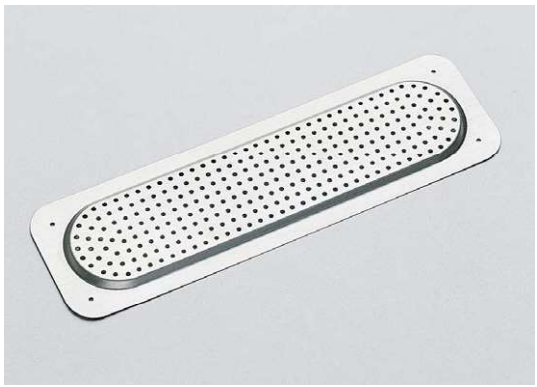

APB-5056, APB-4045 APB-4090

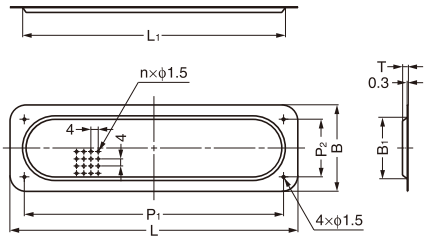
| Item Code | Item Name | Colour | Material | D | $D_1$ | $D_2$ | $D_3$ | H | $H_1$ | $H_2$ | h | Cut Out Dimensions | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-030-038 | APB-4045W | White | ABS | 45 | 39.8 | 36.6 | 36.6 | 10 | 3 | 7 | 1.5 | ϕ40 | ≈ 152 mm² | 7 g | 150 pcs | 900 pcs |
| 210-030-040 | APB-5056W | White | ABS | 56 | 49.8 | 46 | 46 | 12 | 3 | 9 | 1.5 | ϕ50 | ≈ 211 mm² | 11 g | 100 pcs | 600 pcs |
| 210-030-042 | APB-4090W | White | ABS | – | – | – | – | – | – | – | – | 40×85 (Hole) | ≈ 332 mm² | 16 g | 80 pcs | 480 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. VENTILATOR AST

Latest Info



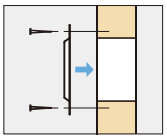



- Insect-proof.

SUS

**Parts Included**
- Round head nail 1.2×10 (SUS)

**Installation**

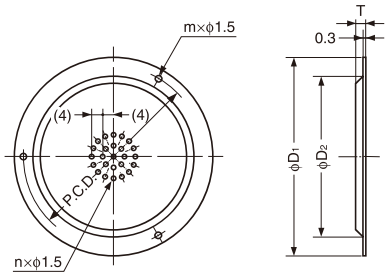


| Item Code | Item Name | Material | Finish | L | L1 | B | B1 | P1 | P2 | T | n | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-030-052 | AST-160 | Stainless Steel (SUS304) | Satin | 160 | 146 | 48 | 36 | 144 | 32 | 3 | 268 | ≈ 470 mm² | 18 g | 50 pcs | 1000 pcs |
| 210-030-053 | AST-210 | Stainless Steel (SUS304) | Satin | 210 | 196 | 58 | 46 | 194 | 42 | 4 | 450 | ≈ 790 mm² | 28 g | 50 pcs | 1200 pcs |

## LAMP. VENTILATOR AST

Latest Info



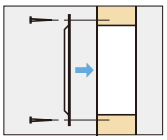



- Insect-proof.

SUS

**Parts Included**
- Round head nail 1.2×10 (SUS)

**Installation**

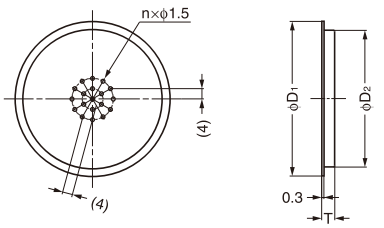


| Item Code | Item Name | Material | Finish | D1 | D2 | T | P.C.D. | m | n | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-030-044 | AST-45 | Stainless Steel (SUS304) | Satin | 45 | 34 | 3 | ϕ40 | 3 | 37 | ≈ 65 mm² | 5 g | 100 pcs | 3600 pcs |
| 210-030-045 | AST-55 | Stainless Steel (SUS304) | Satin | 55 | 44 | 3 | ϕ50 | 3 | 59 | ≈ 104 mm² | 6.3 g | 100 pcs | 3600 pcs |
| 210-030-046 | AST-70 | Stainless Steel (SUS304) | Satin | 70 | 55 | 3 | ϕ64 | 3 | 127 | ≈ 224 mm² | 10 g | 100 pcs | 2400 pcs |
| 210-030-047 | AST-100 | Stainless Steel (SUS304) | Satin | 100 | 81 | 4 | ϕ91 | 4 | 271 | ≈ 478 mm² | 20 g | 50 pcs | 500 pcs |

## LAMP. VENTILATOR ASM

Latest Info

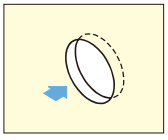





- Insect-proof.

SUS

**Installation**



| Item Code | Item Name | Material | Finish | D1 | D2 | T | n | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-030-010 | ASM-37 | Stainless Steel (SUS304) | Satin | 36 | 30.5 | 4.5 | 37 | ≈ 65 mm² | 3 g | 100 pcs | 3600 pcs |
| 210-030-011 | ASM-45 | Stainless Steel (SUS304) | Satin | 46 | 40.5 | 4.5 | 59 | ≈ 104 mm² | 5 g | 100 pcs | 3600 pcs |
| 210-030-012 | ASM-60 | Stainless Steel (SUS304) | Satin | 60 | 52.5 | 5 | 127 | ≈ 224 mm² | 8 g | 100 pcs | 2400 pcs |
| 210-030-013 | ASM-85 | Stainless Steel (SUS304) | Satin | 85 | 77 | 5 | 271 | ≈ 478 mm² | 13.5 g | 50 pcs | 1000 pcs |

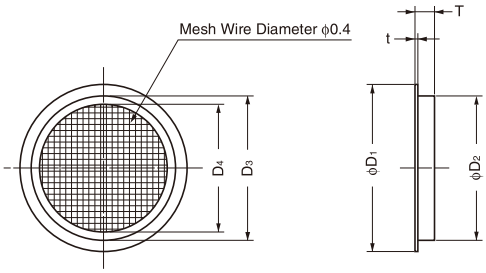
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP. VENTILATOR SAM

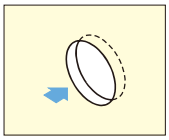
Latest Info



SUS




**Installation**

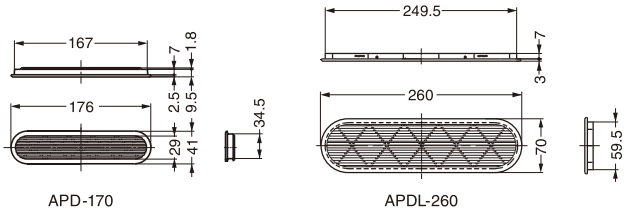


| Item Code | Item Name | Material | Finish | $D_1$ | $D_2$ | $D_3$ | $D_4$ | T | t | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-030-164 | SA-M37 | Stainless Steel (SUS304) | Satin | 36 | 31.5 | 30 | 25 | 5.2 | 0.3 | ≈ 290 mm² | 5 g | 70 pcs | 1400 pcs |
| 210-030-165 | SA-M45 | Stainless Steel (SUS304) | Satin | 46 | 41.5 | 40 | 35 | 5.2 | 0.3 | ≈ 570 mm² | 6 g | 60 pcs | 1200 pcs |
| 210-030-166 | SA-M60 | Stainless Steel (SUS304) | Satin | 60 | 53.5 | 52 | 46 | 6.5 | 0.3 | ≈ 1000 mm² | 10 g | 50 pcs | 1000 pcs |
| 210-030-167 | SA-M85 | Stainless Steel (SUS304) | Satin | 85 | 77.8 | 76.5 | 68 | 7 | 0.3 | ≈ 2150 mm² | 18 g | 30 pcs | 600 pcs |
| 210-030-168 | SA-M120 | Stainless Steel (SUS304) | Satin | 120 | 110.5 | 108 | 99 | 7.2 | 0.5 | ≈ 4480 mm² | 47 g | 20 pcs | 200 pcs |

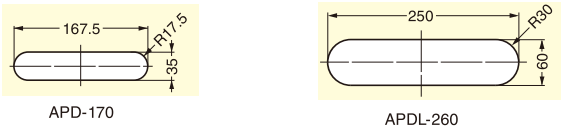
# LAMP. VENTILATOR APD-170, APDL-260

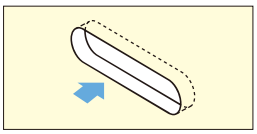
Latest Info




**Cut Out Dimensions**



| Item Code | Item Name | Material | Finish/Colour | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 210-030-034 | APD-170CR | ABS | Chrome | ≈ 1700 mm² | 22 g | 40 pcs | 320 pcs |
| 210-030-035 | APD-170I | ABS | Ivory | ≈ 1700 mm² | 22 g | 40 pcs | 320 pcs |
| 210-030-036 | APD-170B | ABS | Black | ≈ 1700 mm² | 22 g | 40 pcs | 320 pcs |
| 210-030-037 | APD-170BR | ABS | Brown | ≈ 1700 mm² | 22 g | 40 pcs | 320 pcs |
| 210-030-004 | APDL-260I | ABS | Ivory | ≈ 4650 mm² | 60 g | 10 pcs | 80 pcs |
| 210-030-005 | APDL-260B | ABS | Black | ≈ 4650 mm² | 60 g | 10 pcs | 80 pcs |
| 210-030-006 | APDL-260BR | ABS | Brown | ≈ 4650 mm² | 60 g | 10 pcs | 80 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.

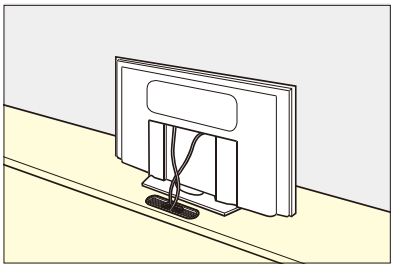
# LAMP VENTILATOR APD-KH

Latest Info



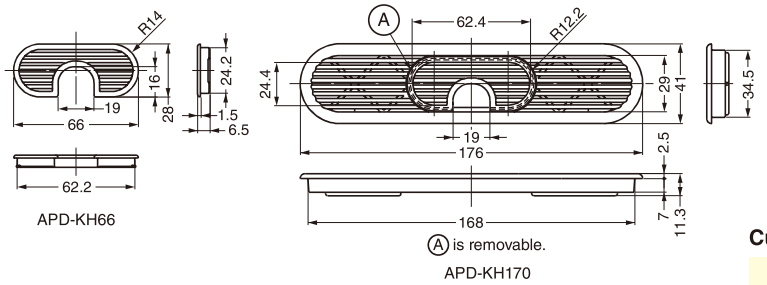

- Ventilator and cable grommet in one unit.

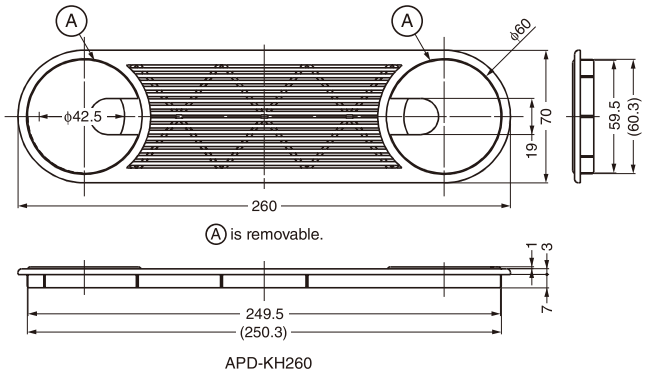
## Application Example



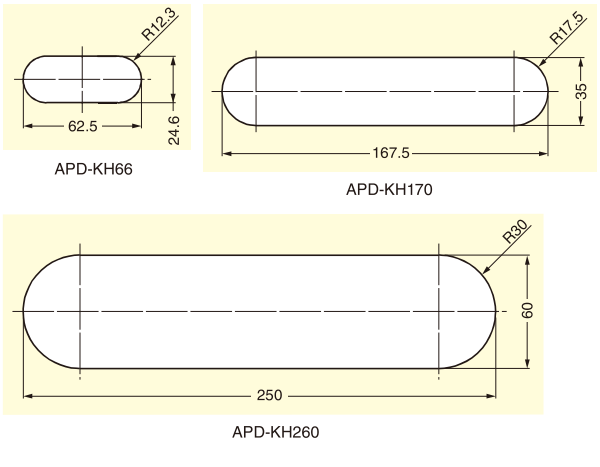
## Colour Variation




## Cut Out Dimensions




| Item Code | Item Name | Material | Finish/Colour | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 210-020-910 | APD-KH66-CR | ABS | Chrome | ≈ 610 mm² | 3.7 g | 100 pcs | 500 pcs |
| 210-020-912 | APD-KH66-IV | | Ivory | | 3 g | | |
| 210-020-914 | APD-KH66-BL | | Black | | | | |
| 210-020-911 | APD-KH66-BR | | Brown | | | | |
| 210-020-913 | APD-KH66-WT | | White | | | | |
| 210-020-564 | APD-KH170-CR | | Chrome | ≈ 1690 mm² | 24 g | 40 pcs | 320 pcs |
| 210-020-566 | APD-KH170-IV | | Ivory | | 20 g | | |
| 210-020-568 | APD-KH170-BL | | Black | | | | |
| 210-020-565 | APD-KH170-BR | | Brown | | | | |
| 210-020-567 | APD-KH170-WT | | White | | | | |
| 210-020-570 | APD-KH260-IV | | Ivory | ≈ 3150 mm² | 55 g | 10 pcs | 80 pcs |
| 210-020-571 | APD-KH260-BL | | Black | | | | |
| 210-020-569 | APD-KH260-BR | | Brown | | | | |

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.

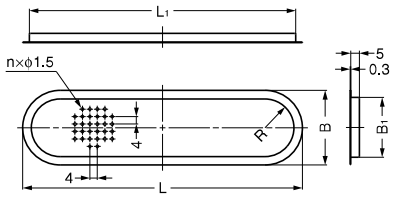
## LAMP. VENTILATOR ASD

Latest Info

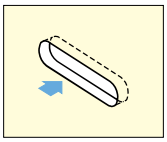


- Insect-proof.

SUS




**Installation**



| Item Code | Item Name | Material | Finish | L | L1 | B | B1 | R | n | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-030-018 | ASD-150 | Stainless Steel (SUS304) | Satin | 150 | 143 | 40 | 33 | 16 | 268 | ≈ 470 mm² | 16 g | 80 pcs | 1920 pcs |
| 210-030-019 | ASD-200 | Stainless Steel (SUS304) | Satin | 200 | 193 | 50 | 42.8 | 21 | 450 | ≈ 790 mm² | 25 g | 40 pcs | 960 pcs |

## LAMP. VENTILATOR SAD

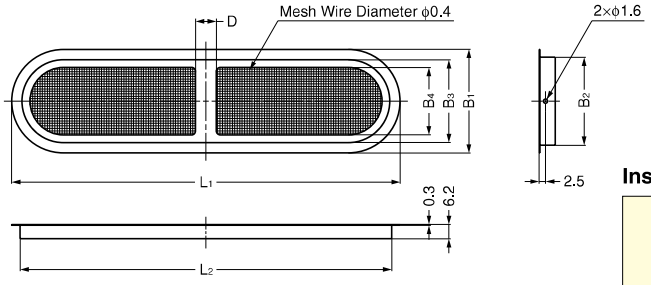
Latest Info



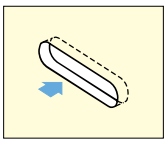
SUS

**Parts Included**

- Round head nail 1.2×10 (SUS)




**Installation**



| Item Code | Item Name | Material | Finish | L1 | L2 | B1 | B2 | B3 | B4 | D | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-030-169 | SA-D150 | Stainless Steel (SUS304) | Satin | 150 | 143.5 | 40 | 34 | 32 | 26 | 8 | ≈ 1880 mm² | 21 g | 30 pcs | 600 pcs |
| 210-030-170 | SA-D200 | Stainless Steel (SUS304) | Satin | 200 | 194 | 50 | 44 | 42 | 35 | 10 | ≈ 3800 mm² | 33 g | 30 pcs | 300 pcs |

## Suggested Options LAMP. INTRODUCTION OF RECESSED PULL WITH VENTILATOR UTA-105



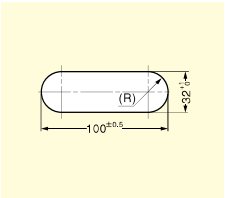


- With ventilator function.
- Excellent chemical resistance.

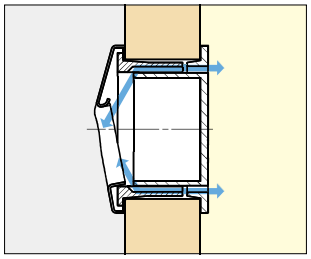
**Parts Included**

- Countersunk head tapping screw 4×20 (SUS)
- For more details, please see P.1086.

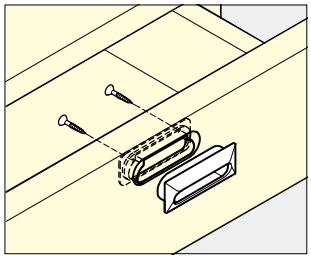
**Cut Out Dimensions**




**Air Flow**



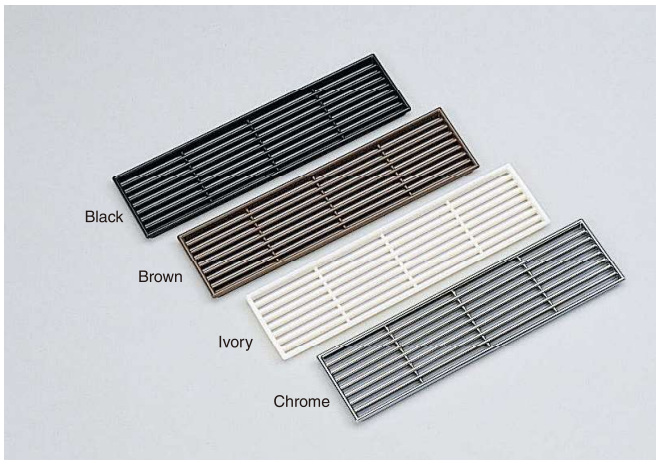
**Installation**

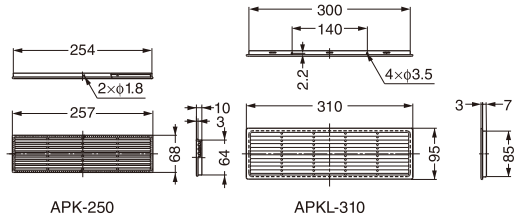



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

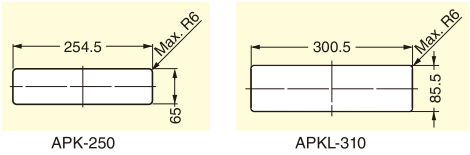
## LAMP VENTILATOR APK-250, APKL-310

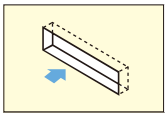
Latest Info

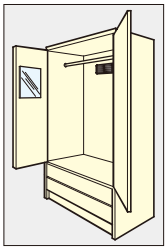



### Cut Out Dimensions



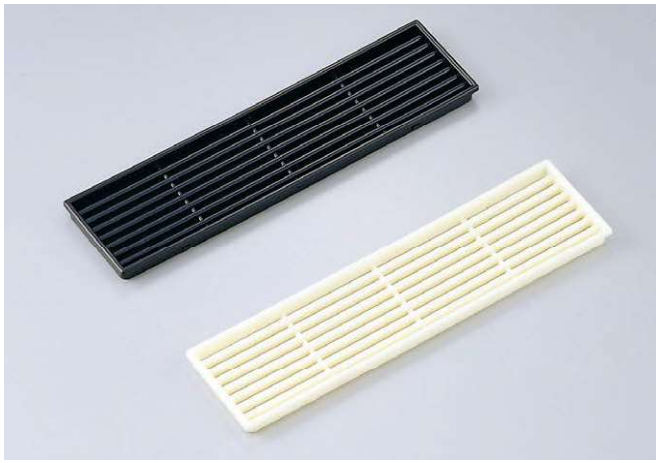





| Item Code | Item Name | Material | Finish/Colour | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 210-030-026 | APK-250CR | ABS | Chrome | ≈ 6580 mm² | 57 g | 20 pcs | 160 pcs |
| 210-030-027 | APK-250I | ABS | Ivory | ≈ 6580 mm² | 57 g | 20 pcs | 160 pcs |
| 210-030-028 | APK-250B | ABS | Black | ≈ 6580 mm² | 57 g | 20 pcs | 160 pcs |
| 210-030-029 | APK-250BR | ABS | Brown | ≈ 6580 mm² | 57 g | 20 pcs | 160 pcs |
| 210-030-007 | APKL-310I | ABS | Ivory | ≈ 9800 mm² | 100 g | 10 pcs | 80 pcs |
| 210-030-008 | APKL-310B | ABS | Black | ≈ 9800 mm² | 100 g | 10 pcs | 80 pcs |
| 210-030-009 | APKL-310BR | ABS | Brown | ≈ 9800 mm² | 100 g | 10 pcs | 80 pcs |

## LAMP VENTILATOR APK-T250

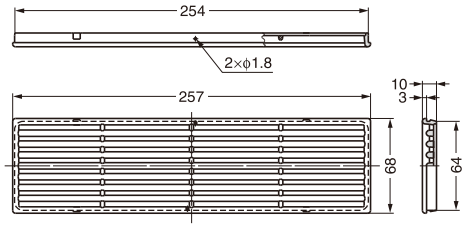
Latest Info



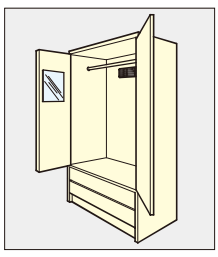
- Click-on installation.

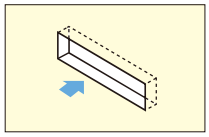
### Remarks

- Board thickness : Max 2.5 mm

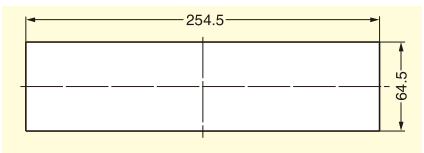



### Application Example





### Cut Out Dimensions




| Item Code | Item Name | Material | Colour | Max. Exhaust Area | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|
| 210-039-435 | APK-T250I | ABS | Ivory | ≈ 5600 mm² | 57 g | 20 pcs | 160 pcs |
| 210-039-434 | APK-T250B | ABS | Black | ≈ 5600 mm² | 57 g | 20 pcs | 160 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. VENTILATOR (W/CABLE GROMMET) APK-K

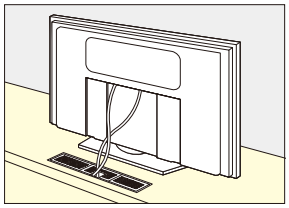
Latest Info



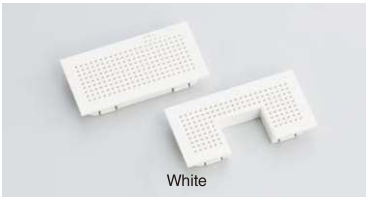

- Combination of ventilator and cable grommet can be customized.
- Small holes (ϕ1.5 mm) prevents insects from entering.
- Removable ventilator and cable grommet allows easy cleaning.
- Sold in a set or separately (Frame, ventilator and cable grommet).

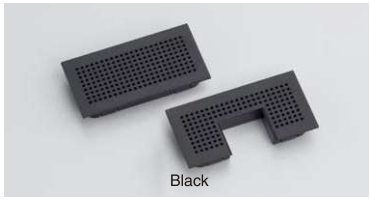
**Remarks**
- Please use glue for installation.

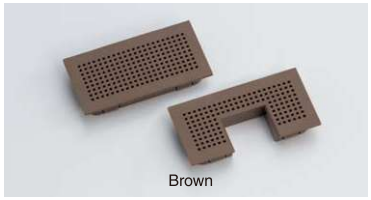
**Application Example**



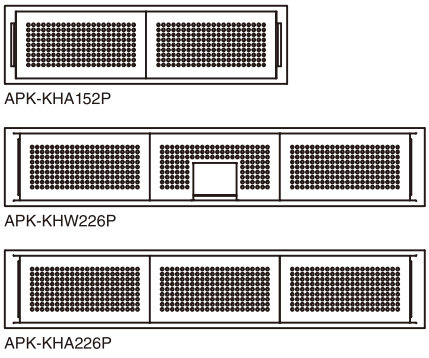
**Colour Variation**



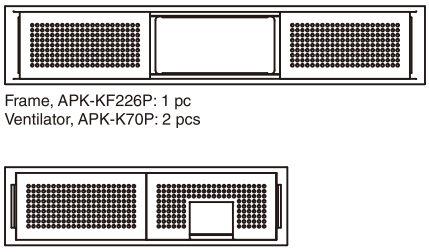



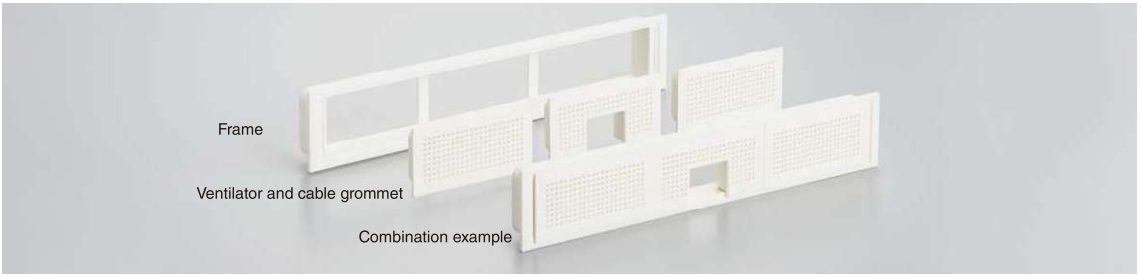




**Set Overview**




**Combination Example (by Ordering Individual Parts on next page)**



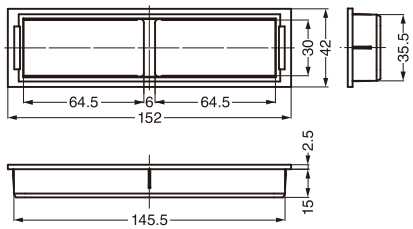

**Frame+Ventilator/Cable Grommet Set**

| Item Code | Item Name | Colour | Material | Width | Combination | Exhaust Area | Weight |
|---|---|---|---|---|---|---|---|
| 210-033-477 | APK-KHA152P-WT | White | ABS | 152 mm | Frame × 1 pc, Cable Grommet × 2 pcs | ≈ 700 mm² | 39 g |
| 210-033-478 | APK-KHA152P-BL | Black | | | | | |
| 210-033-479 | APK-KHA152P-BR | Brown | | | | | |
| 210-032-578 | APK-KHW226P-WT | White | | 226 mm | Frame × 1 pc, Cable Grommet × 1 pc, Ventilator × 2 pcs | ≈ 1343 mm² | 46 g |
| 210-032-579 | APK-KHW226P-BL | Black | | | | | |
| 210-032-580 | APK-KHW226P-BR | Brown | | | | | |
| 210-032-575 | APK-KHA226P-WT | White | | | Frame × 1 pc, Ventilator × 3 pcs | ≈ 1050 mm² | |
| 210-032-576 | APK-KHA226P-BL | Black | | | | | |
| 210-032-577 | APK-KHA226P-BR | Brown | | | | | |

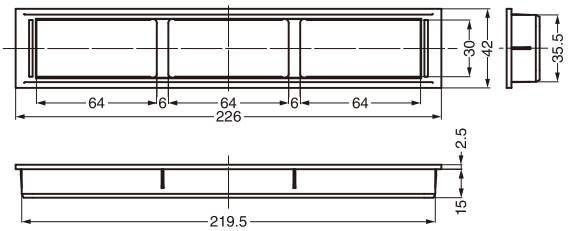

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# Individual Parts (Frame / Ventilator / Cable Grommet)

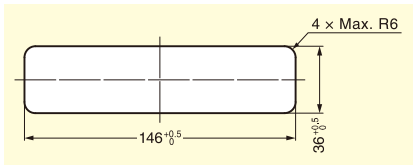
## Frame



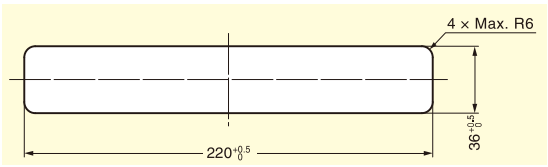

APK-KF152P




APK-KF226P



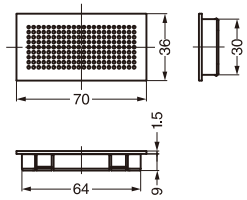

APK-KF152P



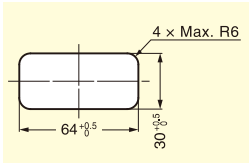

APK-KF226P

| Item Code | Item Name | Colour | Material | Weight |
|---|---|---|---|---|
| 210-032-807 | APK-KF152P-WT | White | ABS | 18 g |
| 210-032-808 | APK-KF152P-BL | Black | | |
| 210-032-809 | APK-KF152P-BR | Brown | | |
| 210-032-548 | APK-KF226P-WT | White | | 25 g |
| 210-032-549 | APK-KF226P-BL | Black | | |
| 210-032-550 | APK-KF226P-BR | Brown | | |

## Ventilator



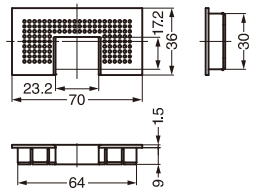

APK-K70P



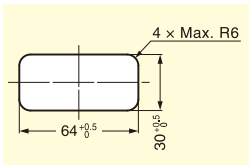

APK-K70P

| Item Code | Item Name | Colour | Material | Exhaust Area | Weight |
|---|---|---|---|---|---|
| 210-032-538 | APK-K70P-WT | White | ABS | ≈ 350 mm² | 7 g |
| 210-032-539 | APK-K70P-BL | Black | | | |
| 210-032-540 | APK-K70P-BR | Brown | | | |

## Cable Grommet




APK-KH70P



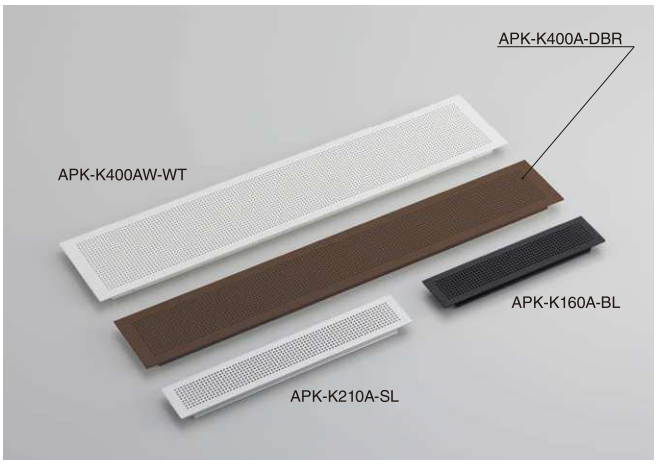

APK-KH70P

| Item Code | Item Name | Colour | Material | Exhaust Area | Weight |
|---|---|---|---|---|---|
| 210-032-541 | APK-KH70P-WT | White | ABS | ≈ 643 mm² | 7 g |
| 210-032-542 | APK-KH70P-BL | Black | | | |
| 210-032-543 | APK-KH70P-BR | Brown | | | |

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 VENTILATOR APK-K

Latest Info

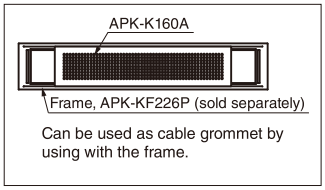


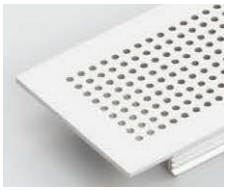

- Smart and simple design.
- Small holes (ϕ1.5 mm) prevents insects from entering.
- Removable ventilator and cable grommet allows easy cleaning.

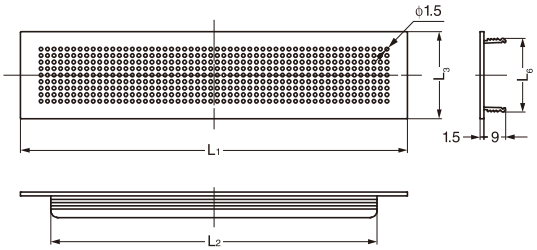
**Remarks**
- Please use glue for installation.

**Sold Separately**
- Frame APK-KF226P (P.1005)

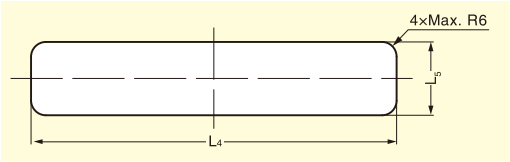
**Application Example**






**Cut Out Dimensions**




| Item Code | Item Name | Finish/Colour | Material | Exhaust Area | L1 | L2 | L3 | L4 | L5 | L6 | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-032-544 | APK-K160A-BL | Black Anodising | Aluminium Alloy | ≈ 859 mm² | 160 | 135 | 36 | 150 | 30.5 | 30.5 | 27 g | 30 pcs | 180 pcs |
| 210-032-545 | APK-K160A-SL | Silver Anodising | | | | | | | | | | 30 pcs | 180 pcs |
| 210-032-546 | APK-K210A-BL | Black Anodising | | ≈ 1145 mm² | 212 | 187 | | 200 | | | 37 g | 30 pcs | 180 pcs |
| 210-032-547 | APK-K210A-SL | Silver Anodising | | | | | | | | | | 30 pcs | 180 pcs |
| 210-034-399 | APK-K400A-SL | Silver Anodising | | ≈ 3958 mm² | 400 | 375 | 60 | 390 | 50 +0.5 0 | 50 | 95 g | 20 pcs | 80 pcs |
| 210-034-400 | APK-K400A-BL | Black Anodising | | | | | | | | | | 20 pcs | 80 pcs |
| 210-034-401 | APK-K400A-DBR | Dark Brown Anodising | | | | | | | | | | 20 pcs | 80 pcs |
| 210-034-402 | APK-K400A-WT | Enamel/White | | | | | | | | | | 20 pcs | 80 pcs |
| 210-034-403 | APK-K400AW-SL | Silver Anodising | | ≈ 5938 mm² | | | 80 | | 70 +0.5 0 | 70 | 130 g | 20 pcs | 80 pcs |
| 210-034-404 | APK-K400AW-BL | Black Anodising | | | | | | | | | | 20 pcs | 80 pcs |
| 210-034-405 | APK-K400AW-DBR | Dark Brown Anodising | | | | | | | | | | 20 pcs | 80 pcs |
| 210-034-406 | APK-K400AW-WT | Enamel/White | | | | | | | | | | 20 pcs | 80 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 ALLOY VENTILATOR APK-H

Latest Info



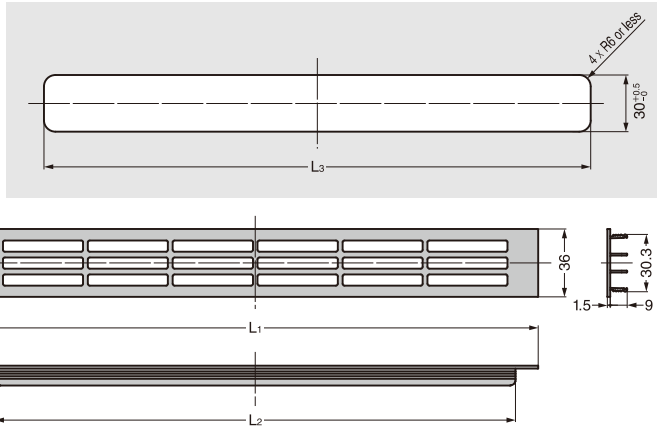



Specially designed so that the inside of the ventilator is not clearly visible.

- Design prevents contents of ventilator from being clearly visible from the outside.
- Has a large vent area for superior ventilation.

**Remarks**
- Use adhesive when mounting.

**Cut Out Dimensions**

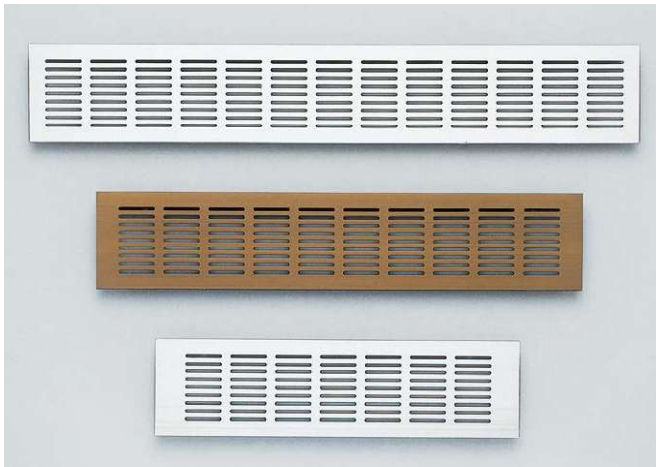



| Item Code | Item Name | Finish/Colour | Material | Air Circulation Surface Area (mm²) | L1 | L2 | L3 | Weight(g) | Box(pcs) | Carton(pcs) |
|---|---|---|---|---|---|---|---|---|---|---|
| 210-041-919 | APK-H300-SL | Silver Anodising | Aluminium Alloy | 4574 | 300 | 276 | 290±1 | 60 | 30 | 120 |
| 210-041-920 | APK-H300-BL | Black Anodising | | | | | | | | |
| 210-041-921 | APK-H300-WT | Enamel/White | | | | | | | | |
| 210-041-922 | *APK-H300-DBR | Dark Brown Anodising | | | | | | | | |
| 210-041-923 | APK-H400-SL | Silver Anodising | | 6100 | 400 | 376 | 390±1 | 80 | | |
| 210-041-924 | APK-H400-BL | Black Anodising | | | | | | | | |
| 210-041-925 | APK-H400-WT | Enamel/White | | | | | | | | |
| 210-041-926 | *APK-H400-DBR | Dark Brown Anodising | | | | | | | | |

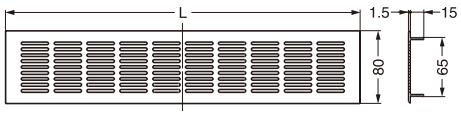
*The item names have been revised.

# VENTILATOR G61

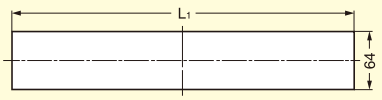
Latest Info



- Click-on installation.




**Cut Out Dimensions**




| Item Code | Item Name | Finish | L | L1 | Material | Max. Exhaust Area | Weight | Box |
|---|---|---|---|---|---|---|---|---|
| 210-031-710 | G61-3008AS | Silver | 300 | 262 | Aluminium Alloy | ≈ 6700 mm² | 98 g | 10 pcs |
| 210-031-711 | G61-3008AU | Bronze | 300 | 262 | Aluminium Alloy | ≈ 6700 mm² | 98 g | 10 pcs |
| 210-031-712 | G61-4008AS | Silver | 400 | 362 | Aluminium Alloy | ≈ 9500 mm² | 130 g | 10 pcs |
| 210-031-713 | G61-4008AU | Bronze | 400 | 362 | Aluminium Alloy | ≈ 9500 mm² | 130 g | 10 pcs |
| 210-031-714 | G61-5008AS | Silver | 500 | 462 | Aluminium Alloy | ≈ 12400 mm² | 161 g | 10 pcs |
| 210-030-700 | G61-5008AU | Bronze | 500 | 462 | Aluminium Alloy | ≈ 12400 mm² | 161 g | 10 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. CABLE GROMMET LS50F, LS60F Sheet Metal / One-touch Installation NEW

Latest Info

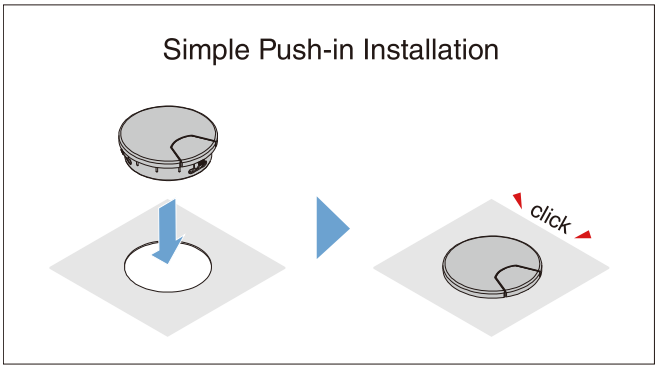


- One-touch easy installation on sheet metal.
- Folding flap can close the opening when not in use.
- Can be used for thickness from 0.8 to 2.0 mm.
- Uses flame retardant material rated (UL94V-0).

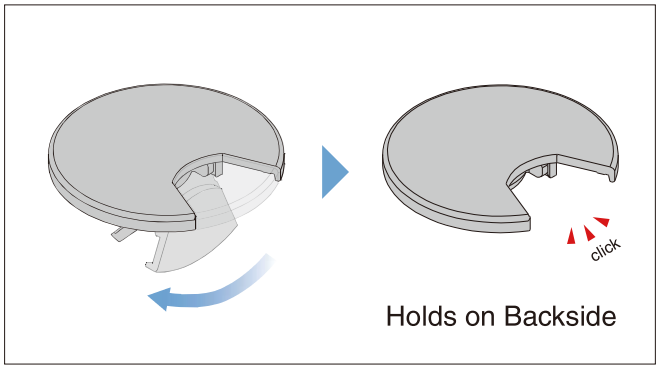
## Application
- Operation consoles, steel cabinets , self-checkout

## Remarks
- Cannot be installed on wood boards.

## Quick Installation to Sheet Metal

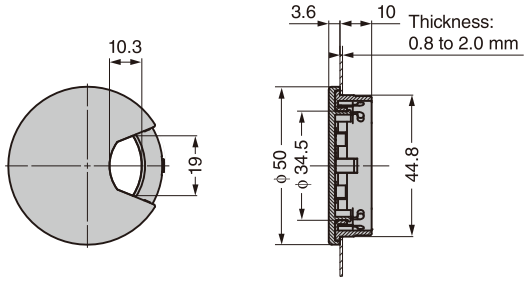



## Flap Cover

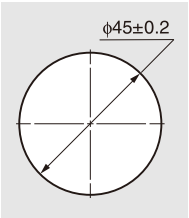



The cover can be folded and held on backside to prevent misplacement.
The whole cap is removable for a wider opening.

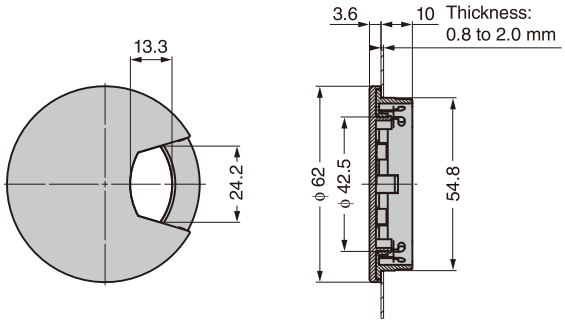
## LS50F



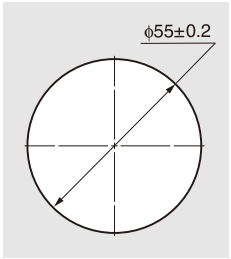

### Cut Out Dimension




## LS60F




### Cut Out Dimension




Feature

**LS50F** Hole diameter: 45 mm

| Item Code | Item Name | Colour | Material | Available Thickness | Weight (g) |
|---|---|---|---|---|---|
| 210-045-891 | LS50F-WT | White | ABS | 0.8 to 2.0 | 9.8 |
| 210-045-892 | LS50F-GR | Grey | | | |
| 210-045-893 | LS50F-BL | Black | | | |

**LS60F** Hole diameter: 55 mm

| Item Code | Item Name | Colour | Material | Available Thickness | Weight (g) |
|---|---|---|---|---|---|
| 210-045-894 | LS60F-WT | White | ABS | 0.8 to 2.0 | 15.3 |
| 210-045-895 | LS60F-GR | Grey | | | |
| 210-045-896 | LS60F-BL | Black | | | |

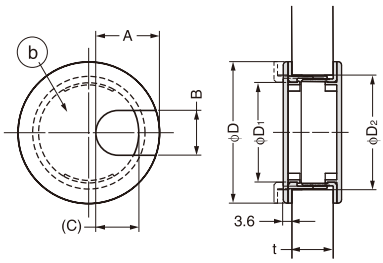

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

## LAMP CABLE GROMMET LSU, LS Round / Double-sided

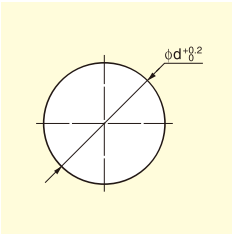
Latest Info




- Double sided cable grommet.
- Cap ⓑ is removable for wide opening.




**Cut Out Dimensions**



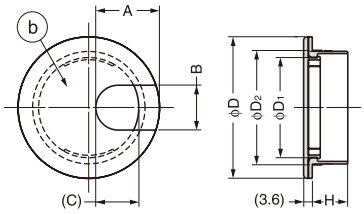

| Item Code | Item Name | Colour | Material | D | D1 | D2 | A | B | C | t | d | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-040-948 | LS43WT | White | ABS | 43 | 29.5 | 35.5 | – | 14 | 14.5 | 16 - 26 | 35 | 10.3 g | 20 pcs | 160 pcs |
| 210-040-949 | LS43BE | Beige | ABS | | | | | | | | | 10.3 g | 20 pcs | 160 pcs |
| 210-040-950 | LS43LBR | Light Brown | ABS | | | | | | | | | 10.3 g | 20 pcs | 160 pcs |
| 210-040-951 | LS43DBR | Dark Brown | ABS | | | | | | | | | 10.3 g | 20 pcs | 160 pcs |
| 210-040-952 | LS43BL | Black | ABS | | | | | | | | | 10.3 g | 20 pcs | 160 pcs |
| 210-040-953 | LS50WT | White | ABS | 50 | 34.5 | 40.5 | | 17 | 17 | | 40 | 13.3 g | 20 pcs | 160 pcs |
| 210-040-954 | LS50BE | Beige | ABS | | | | | | | | | 13.3 g | 20 pcs | 160 pcs |
| 210-040-955 | LS50LBR | Light Brown | ABS | | | | | | | | | 13.3 g | 20 pcs | 160 pcs |
| 210-040-956 | LS50DBR | Dark Brown | ABS | | | | | | | | | 13.3 g | 20 pcs | 160 pcs |
| 210-040-957 | LS50BL | Black | ABS | | | | | | | | | 13.3 g | 20 pcs | 160 pcs |
| 210-017-353 | LSU60WT | White | ABS | 60 | 42.5 | 48.5 | 27 | 19 | 18 | 12 - 18 | 48 | 19 g | 20 pcs | 160 pcs |
| 210-029-534 | LSU60BE | Beige | ABS | | | | | | | | | 19 g | 20 pcs | 160 pcs |
| 210-029-533 | LSU60LBR | Light Brown | ABS | | | | | | | | | 19 g | 20 pcs | 160 pcs |
| 210-029-532 | LSU60DBR | Dark Brown | ABS | | | | | | | | | 19 g | 20 pcs | 160 pcs |
| 210-017-354 | LSU60BL | Black | ABS | | | | | | | | | 19 g | 20 pcs | 160 pcs |
| 210-035-071 | LS60WT | White | ABS | | | | | | | 18 - 24 | | 20 g | 20 pcs | 160 pcs |
| 210-029-126 | LS60BE | Beige | ABS | | | | | | | | | 20 g | 20 pcs | 160 pcs |
| 210-029-535 | LS60LBR | Light Brown | ABS | | | | | | | | | 20 g | 20 pcs | 160 pcs |
| 210-029-536 | LS60DBR | Dark Brown | ABS | | | | | | | | | 20 g | 20 pcs | 160 pcs |
| 210-035-070 | LS60BL | Black | ABS | | | | | | | | | 20 g | 20 pcs | 160 pcs |
| 210-031-304 | LS76WT | White | ABS | 76 | 58.2 | 64.2 | 34 | 22 | 25.1 | 25 - 40 | 64 | 25 g | 12 pcs | 96 pcs |
| 210-029-537 | LS76BE | Beige | ABS | | | | | | | | | 25 g | 12 pcs | 96 pcs |
| 210-029-538 | LS76LBR | Light Brown | ABS | | | | | | | | | 25 g | 12 pcs | 96 pcs |
| 210-029-539 | LS76DBR | Dark Brown | ABS | | | | | | | | | 25 g | 12 pcs | 96 pcs |
| 210-031-305 | LS76BL | Black | ABS | | | | | | | | | 25 g | 12 pcs | 96 pcs |

## LAMP CABLE GROMMET LSU-S, LS-S Round / One-sided

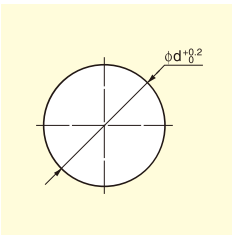
Latest Info




- Cap ⓑ is removable for wide opening.




**Cut Out Dimensions**

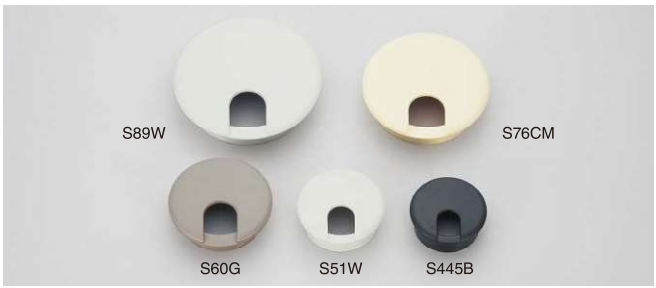



| Item Code | Item Name | Colour | Material | D | D1 | D2 | H | A | B | C | d | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-040-938 | LS43S-WT | White | ABS | 43 | 29.5 | 35.5 | 15 | – | 14 | 14.5 | 35 | 10.3 g | 20 pcs | 160 pcs |
| 210-040-939 | LS43S-BE | Beige | ABS | | | | | | | | | 10.3 g | 20 pcs | 160 pcs |
| 210-040-940 | LS43S-LBR | Light Brown | ABS | | | | | | | | | 10.3 g | 20 pcs | 160 pcs |
| 210-040-941 | LS43S-DBR | Dark Brown | ABS | | | | | | | | | 10.3 g | 20 pcs | 160 pcs |
| 210-040-942 | LS43S-BL | Black | ABS | | | | | | | | | 10.3 g | 20 pcs | 160 pcs |
| 210-040-943 | LS50S-WT | White | ABS | 50 | 34.5 | 40.5 | | | 17 | 17 | 40 | 13.3 g | 20 pcs | 160 pcs |
| 210-040-944 | LS50S-BE | Beige | ABS | | | | | | | | | 13.3 g | 20 pcs | 160 pcs |
| 210-040-945 | LS50S-LBR | Light Brown | ABS | | | | | | | | | 13.3 g | 20 pcs | 160 pcs |
| 210-040-946 | LS50S-DBR | Dark Brown | ABS | | | | | | | | | 13.3 g | 20 pcs | 160 pcs |
| 210-040-947 | LS50S-BL | Black | ABS | | | | | | | | | 13.3 g | 20 pcs | 160 pcs |
| 210-029-540 | LSU60S-WT | White | ABS | 60 | 42.5 | 48.5 | 11.5 | 27 | 19 | 18 | 48 | 11 g | 20 pcs | 160 pcs |
| 210-029-541 | LSU60S-BE | Beige | ABS | | | | | | | | | 11 g | 20 pcs | 160 pcs |
| 210-029-542 | LSU60S-LBR | Light Brown | ABS | | | | | | | | | 11 g | 20 pcs | 160 pcs |
| 210-029-543 | LSU60S-DBR | Dark Brown | ABS | | | | | | | | | 11 g | 20 pcs | 160 pcs |
| 210-029-544 | LSU60S-BL | Black | ABS | | | | | | | | | 11 g | 20 pcs | 160 pcs |
| 210-029-545 | LS60S-WT | White | ABS | | | | 15 | | | | | 12 g | 20 pcs | 160 pcs |
| 210-029-546 | LS60S-BE | Beige | ABS | | | | | | | | | 12 g | 20 pcs | 160 pcs |
| 210-029-547 | LS60S-LBR | Light Brown | ABS | | | | | | | | | 12 g | 20 pcs | 160 pcs |
| 210-029-548 | LS60S-DBR | Dark Brown | ABS | | | | | | | | | 12 g | 20 pcs | 160 pcs |
| 210-029-549 | LS60S-BL | Black | ABS | | | | | | | | | 12 g | 20 pcs | 160 pcs |
| 210-029-550 | LS76S-WT | White | ABS | 76 | 58.2 | 64.2 | 23.5 | 34 | 22 | 25.1 | 64 | 20 g | 12 pcs | 96 pcs |
| 210-029-551 | LS76S-BE | Beige | ABS | | | | | | | | | 20 g | 12 pcs | 96 pcs |
| 210-029-552 | LS76S-LBR | Light Brown | ABS | | | | | | | | | 20 g | 12 pcs | 96 pcs |
| 210-029-553 | LS76S-DBR | Dark Brown | ABS | | | | | | | | | 20 g | 12 pcs | 96 pcs |
| 210-029-554 | LS76S-BL | Black | ABS | | | | | | | | | 20 g | 12 pcs | 96 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.

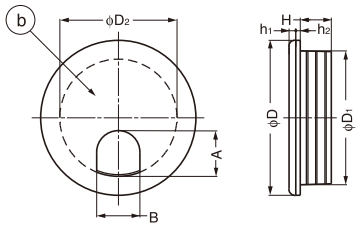
# CABLE GROMMET S445, S51, S60, S76, S89

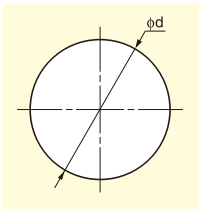
Latest Info




- Cap ⓑ is removable for wide opening.
- Uses flame retardant material rated (UL94HB).

**Cut Out Dimensions**



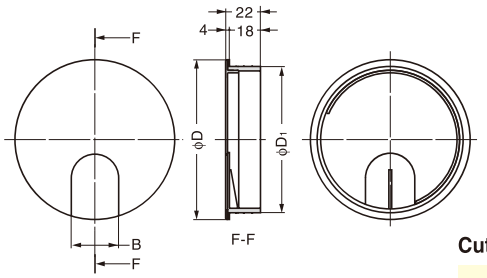

| Item Code | Item Name | Colour | Material | D | D1 | D2 | H | h1 | h2 | A | B | d | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-031-830 | S445CM | Ivory | ABS | 45 | 38.8 | 34 | 16.4 | 2 | 1.3 | 16.7 | 12.5 | 39 | 9 g | 50 pcs | 450 pcs |
| 210-031-831 | S445W | White | ABS | | | | | | | | | | 9 g | 50 pcs | 450 pcs |
| 210-031-829 | S445G | Grey | ABS | | | | | | | | | | 9 g | 50 pcs | 450 pcs |
| 210-031-828 | S445B | Black | ABS | | | | | | | | | | 9 g | 50 pcs | 450 pcs |
| 210-031-834 | S51CM | Ivory | ABS | 51 | 44.8 | 39.7 | 16.3 | | 1.6 | 19 | 15.5 | 45 | 11 g | 30 pcs | 300 pcs |
| 210-031-835 | S51W | White | ABS | | | | | | | | | | 11 g | 30 pcs | 300 pcs |
| 210-031-833 | S51G | Grey | ABS | | | | | | | | | | 11 g | 30 pcs | 300 pcs |
| 210-031-832 | S51B | Black | ABS | | | | | | | | | | 11 g | 30 pcs | 300 pcs |
| 210-031-838 | S60CM | Ivory | ABS | 60.5 | 48.8 | 44 | 16.2 | | | 20.8 | 19 | 49 | 14 g | 25 pcs | 250 pcs |
| 210-031-839 | S60W | White | ABS | | | | | | | | | | 14 g | 25 pcs | 250 pcs |
| 210-031-837 | S60G | Grey | ABS | | | | | | | | | | 14 g | 25 pcs | 250 pcs |
| 210-031-836 | S60B | Black | ABS | | | | | | | | | | 14 g | 25 pcs | 250 pcs |
| 210-031-814 | S76CM | Ivory | ABS | 76.5 | 64.8 | 59 | 16.1 | 2.6 | | 21.5 | 21.5 | 65 | 22 g | 15 pcs | 150 pcs |
| 210-031-815 | S76W | White | ABS | | | | | | | | | | 22 g | 15 pcs | 150 pcs |
| 210-031-813 | S76G | Grey | ABS | | | | | | | | | | 22 g | 15 pcs | 150 pcs |
| 210-031-812 | S76B | Black | ABS | | | | | | | | | | 22 g | 15 pcs | 150 pcs |
| 210-031-818 | S89CM | Ivory | ABS | 89.4 | 76.8 | 71.4 | 16.5 | | 1.5 | 25 | 22 | 77 | 30 g | 10 pcs | 80 pcs |
| 210-031-819 | S89W | White | ABS | | | | | | | | | | 30 g | 10 pcs | 80 pcs |
| 210-031-817 | S89G | Grey | ABS | | | | | | | | | | 30 g | 10 pcs | 80 pcs |
| 210-031-816 | S89B | Black | ABS | | | | | | | | | | 30 g | 10 pcs | 80 pcs |

# CABLE GROMMET ST70, ST88

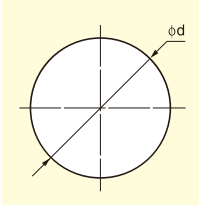
Latest Info



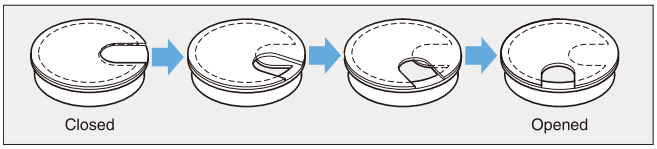

- Cover rotates 90 degrees.




**Cut Out Dimensions**




**Cover**



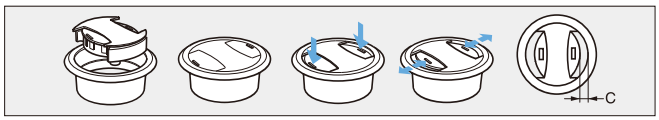

| Item Code | Item Name | Colour | Material | D | D1 | B | d | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|
| 210-031-802 | ST70W | White | ABS | 70 | 60 | 22 | 60 | 20 g | 15 pcs | 150 pcs |
| 210-031-803 | ST70CM | Ivory | ABS | 70 | 60 | 22 | 60 | 20 g | 15 pcs | 150 pcs |
| 210-031-804 | ST70SL | Silver | ABS | 70 | 60 | 22 | 60 | 20 g | 15 pcs | 150 pcs |
| 210-031-805 | ST70G | Grey | ABS | 70 | 60 | 22 | 60 | 20 g | 15 pcs | 150 pcs |
| 210-031-806 | ST70B | Black | ABS | 70 | 60 | 22 | 60 | 20 g | 15 pcs | 150 pcs |
| 210-031-807 | ST88W | White | ABS | 88 | 80 | 26 | 80 | 31 g | 10 pcs | 80 pcs |
| 210-031-808 | ST88CM | Ivory | ABS | 88 | 80 | 26 | 80 | 31 g | 10 pcs | 80 pcs |
| 210-031-809 | ST88SL | Silver | ABS | 88 | 80 | 26 | 80 | 31 g | 10 pcs | 80 pcs |
| 210-031-810 | ST88G | Grey | ABS | 88 | 80 | 26 | 80 | 31 g | 10 pcs | 80 pcs |
| 210-031-811 | ST88B | Black | ABS | 88 | 80 | 26 | 80 | 31 g | 10 pcs | 80 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.

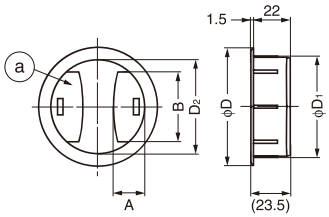
# CABLE GROMMET S70, S91

Latest Info

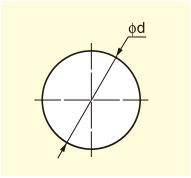



- For thin cables, slide the part ⓐ.
- All the front parts are removable for wide opening.




**Cut Out Dimensions**




**Application**



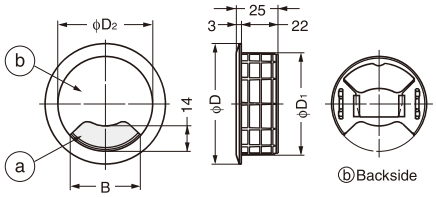
| Item Code | Item Name | Colour | Material | D | D1 | D2 | A | B | C | d | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-028-542 | S70W | White | ABS | 70.5 | 60 | 56 | 19 | 41.5 | 7 | 60 | 29 g | 15 pcs | 150 pcs |
| 210-028-543 | S70CM | Ivory | ABS | 70.5 | 60 | 56 | 19 | 41.5 | 7 | 60 | 29 g | 15 pcs | 150 pcs |
| 210-028-544 | S70G | Grey | ABS | 70.5 | 60 | 56 | 19 | 41.5 | 7 | 60 | 29 g | 15 pcs | 150 pcs |
| 210-028-545 | S70BR | Brown | ABS | 70.5 | 60 | 56 | 19 | 41.5 | 7 | 60 | 29 g | 15 pcs | 150 pcs |
| 210-028-546 | S70B | Black | ABS | 70.5 | 60 | 56 | 19 | 41.5 | 7 | 60 | 29 g | 15 pcs | 150 pcs |
| 210-028-547 | S91W | White | ABS | 91 | 80 | 76 | 25 | 55 | 10 | 80 | 40 g | 10 pcs | 80 pcs |
| 210-028-548 | S91CM | Ivory | ABS | 91 | 80 | 76 | 25 | 55 | 10 | 80 | 40 g | 10 pcs | 80 pcs |
| 210-028-549 | S91G | Grey | ABS | 91 | 80 | 76 | 25 | 55 | 10 | 80 | 40 g | 10 pcs | 80 pcs |
| 210-028-550 | S91BR | Brown | ABS | 91 | 80 | 76 | 25 | 55 | 10 | 80 | 40 g | 10 pcs | 80 pcs |
| 210-028-551 | S91B | Black | ABS | 91 | 80 | 76 | 25 | 55 | 10 | 80 | 40 g | 10 pcs | 80 pcs |

# CABLE GROMMET V60, V80

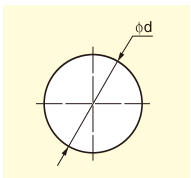
Latest Info




- Remove the part ⓐ for thin cables and keep on the backside pocket.
- All the front parts are removable for wide opening.




**Cut Out Dimensions**




| Item Code | Item Name | Colour | Material | D | D1 | D2 | B | d | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-031-857 | V60W | White | Polystyrene (HIPS) | 72 | 60.5 | 56.7 | 41 | 60.5 | 25.5 g | 15 pcs | 150 pcs |
| 210-031-859 | V60BE | Beige | Polystyrene (HIPS) | 72 | 60.5 | 56.7 | 41 | 60.5 | 25.5 g | 15 pcs | 150 pcs |
| 210-031-858 | V60DBE | Dark Beige | Polystyrene (HIPS) | 72 | 60.5 | 56.7 | 41 | 60.5 | 25.5 g | 15 pcs | 150 pcs |
| 210-031-866 | V60SL | Silver | ABS | 72 | 60.5 | 56.7 | 41 | 60.5 | 25.5 g | 15 pcs | 150 pcs |
| 210-031-865 | V60RG | Light Brown | Polystyrene (HIPS) | 72 | 60.5 | 56.7 | 41 | 60.5 | 25.5 g | 15 pcs | 150 pcs |
| 210-031-856 | V60B | Black | Polystyrene (HIPS) | 72 | 60.5 | 56.7 | 41 | 60.5 | 25.5 g | 15 pcs | 150 pcs |
| 210-031-853 | V80W | White | Polystyrene (HIPS) | 92 | 80.5 | 77 | 50 | 80.5 | 39 g | 10 pcs | 80 pcs |
| 210-031-855 | V80BE | Beige | Polystyrene (HIPS) | 92 | 80.5 | 77 | 50 | 80.5 | 39 g | 10 pcs | 80 pcs |
| 210-031-854 | V80DBE | Dark Beige | Polystyrene (HIPS) | 92 | 80.5 | 77 | 50 | 80.5 | 39 g | 10 pcs | 80 pcs |
| 210-031-867 | V80SL | Silver | ABS | 92 | 80.5 | 77 | 50 | 80.5 | 39 g | 10 pcs | 80 pcs |
| 210-031-864 | V80RG | Light Brown | Polystyrene (HIPS) | 92 | 80.5 | 77 | 50 | 80.5 | 39 g | 10 pcs | 80 pcs |
| 210-031-852 | V80B | Black | Polystyrene (HIPS) | 92 | 80.5 | 77 | 50 | 80.5 | 39 g | 10 pcs | 80 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 SPLIT CABLE GROMMET LS50S-S Metallic / With Lid NEW

Latest Info


LS50S-S-SN


LS50S-S-DB

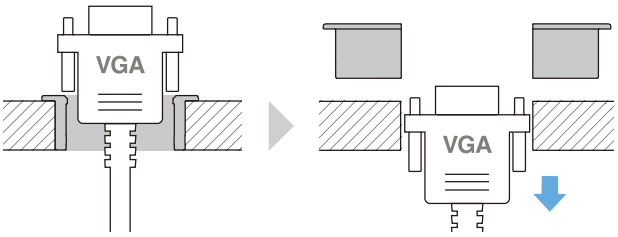

LS50S-S-BL

- Comes with a removable lid to fit most wires.
- Made of zinc alloy with stylish finishes.
- Can be split into two parts for easy cable replacement.
- Even when exchanging with cables which have bigger plugs than the grommet, there is no need to take apart them.
- The lid is equipped with rubbers on the back side to prevent it from coming off unintentionally.

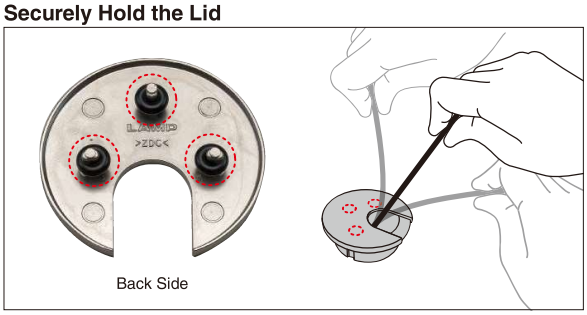
## Remarks

- Do not change the combination of the split parts.
- Each antique brass finish looks slightly different because it is polished by hand.

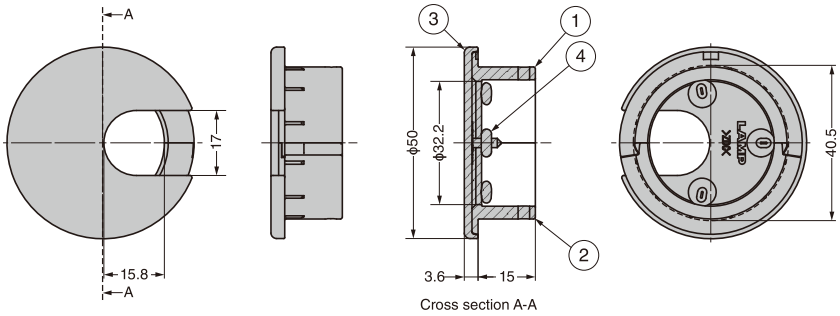
## Split System Easy to replace cables.




## Securely Hold the Lid

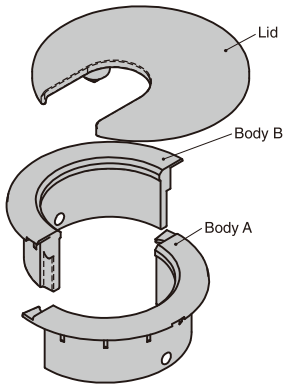

Back Side

The o-ring rubbers hold the lid in position even when cables are moved.

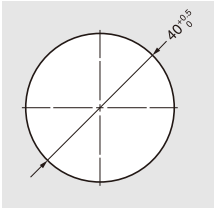


Cross section A-A

## Components




## Cut Out Dimensions




Feature

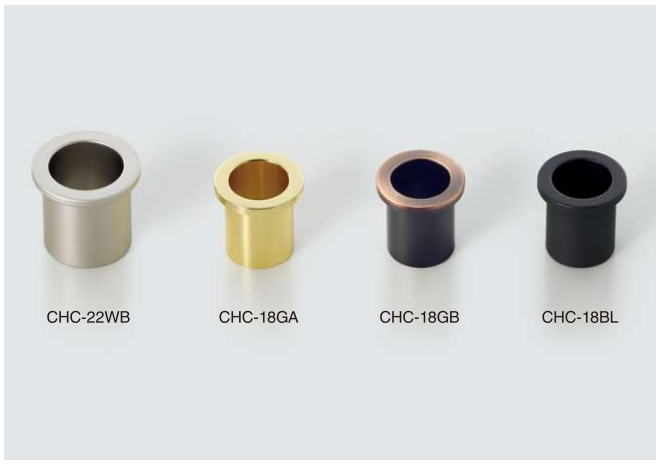
| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Body A | Zinc Alloy (ZDC) | See the table on the left |
| ② | Body B | | |
| ③ | Lid | | |
| ④ | O-ring | Nitrile Rubber (NBR) | Black |

| Item Code | Item Name | Finish/Colour | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|
| 210-047-811 | LS50S-S-SN | Satin Nickel | 64 | 20 | 160 |
| 210-047-813 | LS50S-S-DB | Antique Brass | | 20 | 160 |
| 210-047-814 | LS50S-S-BL | Chrome/Matte Black | | 20 | 160 |


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.

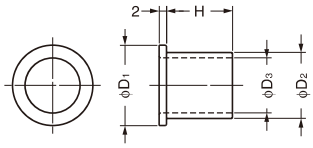
# LAMP. CABLE GROMMET CHC

Latest Info

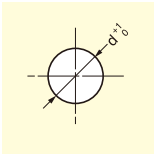



Black colour also available.

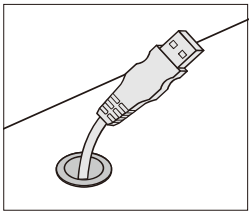
- Two sizes of diameter available.
- Suitable for phone, fax or LAN cable grommet.




**Cut Out Dimensions**




**Application**



| Item Code | Item Name | Material | Finish/Colour | H | D1 | D2 | D3 | d | Weight | Box |
|---|---|---|---|---|---|---|---|---|---|---|
| 210-023-209 | CHC-18WB | Brass | Satin Nickel | 16 | 18 | 14 | 12 | 14.5 | 8 g | 120 pcs |
| 210-017-186 | CHC-18GA | Brass | Gold | 16 | 18 | 14 | 12 | 14.5 | 8 g | 120 pcs |
| 210-017-187 | CHC-18GB | Brass | Antique Brass | 16 | 18 | 14 | 12 | 14.5 | 8 g | 120 pcs |
| 210-029-804 | CHC-18BL | Brass | Black | 16 | 18 | 14 | 12 | 14.5 | 8 g | 120 pcs |
| 210-023-210 | CHC-22WB | Brass | Satin Nickel | 18 | 22 | 18 | 15 | 18.5 | 15 g | 60 pcs |
| 210-017-189 | CHC-22GA | Brass | Gold | 18 | 22 | 18 | 15 | 18.5 | 15 g | 60 pcs |
| 210-017-190 | CHC-22GB | Brass | Antique Brass | 18 | 22 | 18 | 15 | 18.5 | 15 g | 60 pcs |
| 210-029-805 | CHC-22BL | Brass | Black | 18 | 22 | 18 | 15 | 18.5 | 15 g | 60 pcs |

# LAMP. SPLIT CABLE GROMMET CHC-S

Latest Info




- Can be split into two parts for easy cable replacement.
- Even when exchanging with cables which have bigger plugs than the grommet, there is no need to take apart them.
- Non-split model (CHC) is also available.

**Cable Diameter**

Feature

- CHC-S18: 12 to 14 mm (LAN cable and RJ45 connector)
- CHC-S22: 15 to 18 mm (USB cable)
- CHC-S26: 18 to 22 mm (HDMI cable)

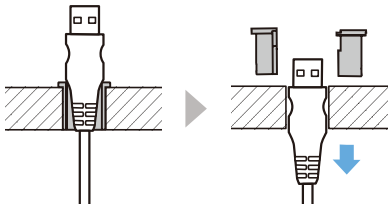
*Please check with actual cables before use.

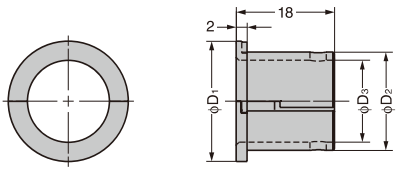
**Remarks**

- Note that scratches on the black type may become conspicuous. Please handle it with care during installation.
- Do not change the combination of the split parts.



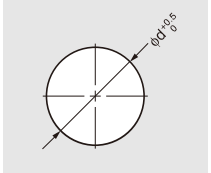
**Split System** Easy to replace cables.






| Item Code | Item Name | Material | Finish/Colour | D1 | D2 | D3 | d | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|
| 210-028-378 | CHC-S18DN | Zinc Alloy (ZDC) | Nickel | 18 | 14 | 12 | 14 | 6 | 100 | 400 |
| 210-028-379 | CHC-S18GC | | Gold Plating | | | | | | 100 | 400 |
| 210-028-380 | CHC-S18DB | | Antique Brass | | | | | | 100 | 400 |
| 210-029-799 | CHC-S18BL | | Black | | | | | | 100 | 400 |
| 210-045-356 | CHC-S22DN | | Nickel | 22 | 18 | 15 | 18 | 10 | 100 | 400 |
| 210-045-357 | CHC-S22GC | | Gold Plating | | | | | | 100 | 400 |
| 210-045-358 | CHC-S22DB | | Antique Brass | | | | | | 100 | 400 |
| 210-045-359 | CHC-S22BL | | Black | | | | | | 100 | 400 |
| 210-045-360 | CHC-S26DN | | Nickel | 26 | 22 | 18 | 22 | 16 | 100 | 400 |
| 210-045-361 | CHC-S26GC | | Gold Plating | | | | | | 100 | 400 |
| 210-045-362 | CHC-S26DB | | Antique Brass | | | | | | 100 | 400 |
| 210-045-363 | CHC-S26BL | | Black | | | | | | 100 | 400 |

**Cut Out Dimension**

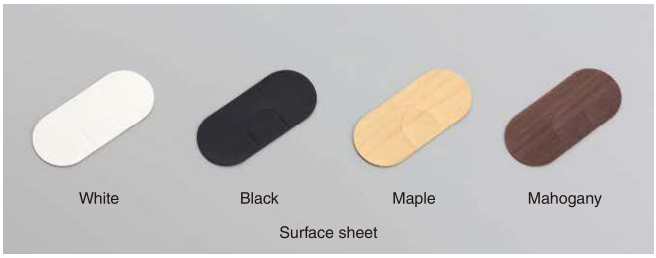



This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# LAMP. CABLE GROMMET LN72SF

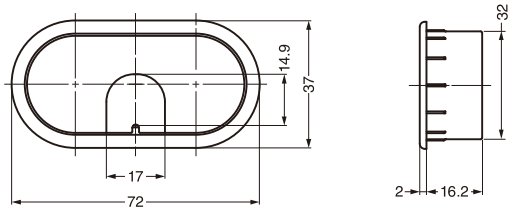
Latest Info




- 4 different finishes available.
- Cap is removable for wide opening.

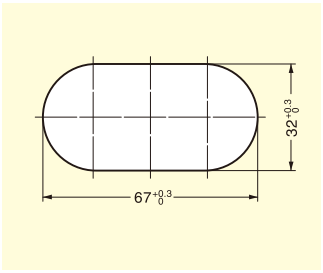
**Sold Separately**
- Surface sheet LN72SF-ST

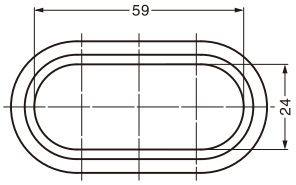


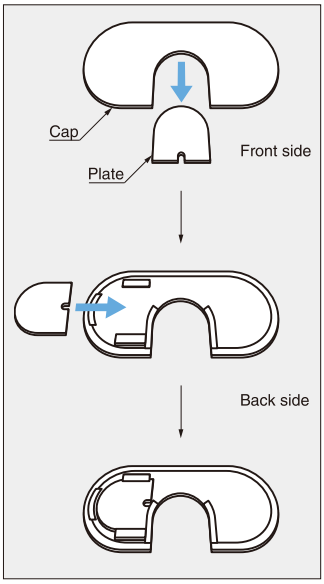

## Combination Example




## Cut Out Dimensions




## Main Body

| Item Code | Item Name | Colour | Material | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-024-223 | LN72SF-WT | White | ABS | 9 g | 40 pcs | 320 pcs |
| 210-024-224 | LN72SF-BL | Black | | | | |

## Surface Sheet (Sold Separately)

| Item Code | Item Name | Colour | Weight | Box |
|---|---|---|---|---|
| 210-025-807 | LN72SF-ST-WT | White | 0.9 g | 1500 pcs |
| 210-025-808 | LN72SF-ST-BL | Black | | |
| 210-026-450 | LN72SF-STMAP | Maple | | 800 pcs |
| 210-026-449 | *LN72SF-STMAO | Mahogany | | |

*The finish of the item will be "mahogany: JWS2021V (AICA)" when the current stock is run out.

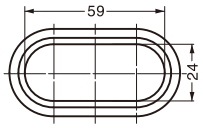

This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

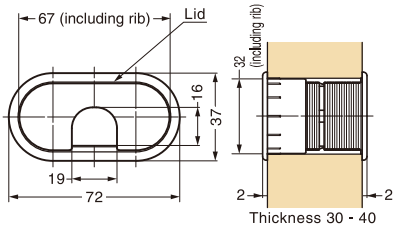
## LAMP. CABLE GROMMET LN72

Latest Info

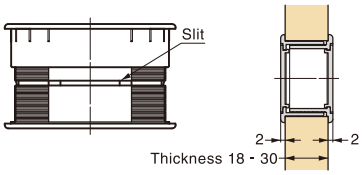




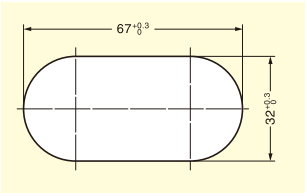




**After Cutting Slit**




- Double sided cable grommet.
- Applicable board thickness: 30 mm - 40 mm. Also available for 18 mm - 30 mm thickness board by cutting the slit on body.
- Lid is removable for wide opening.

**Cut Out Dimensions**

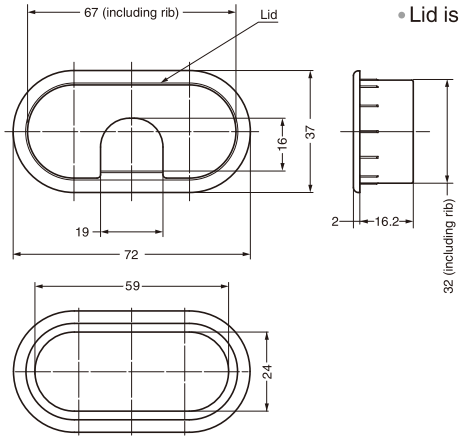



| Item Code | Item Name | Colour | Material | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-020-562 | LN72-WT | White | ABS | 19 g | 40 pcs | 320 pcs |
| 210-020-563 | LN72-BL | Black | ABS | 19 g | 40 pcs | 320 pcs |

## LAMP. CABLE GROMMET LN72S

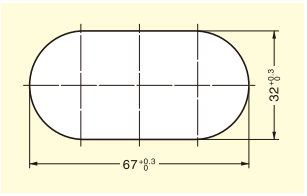
Latest Info




- Lid is removable for wide opening.

**Cut Out Dimensions**




| Item Code | Item Name | Colour | Material | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-021-706 | LN72S-WT | White | ABS | 9 g | 40 pcs | 320 pcs |
| 210-021-707 | LN72S-BL | Black | ABS | 9 g | 40 pcs | 320 pcs |

## LAMP. CABLE GROMMET LN72P

Latest Info




**LN72 (P.1015)**



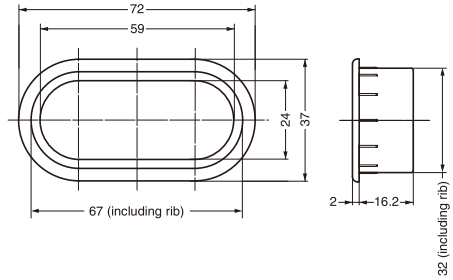

Double sided adjustable grommet

**LN72S (P.1015)**

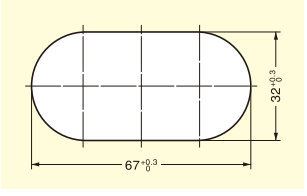



One sided adjustable grommet

- Without cap version of LN72S (P.1015).




**Cut Out Dimensions**




| Item Code | Item Name | Finish | Material | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-024-225 | LN72P-CR | Chrome | ABS | 8 g | 40 pcs | 320 pcs |
| 210-026-235 | LN72P-DC | Dull Chrome | ABS | 8 g | 40 pcs | 320 pcs |
| 210-024-226 | LN72P-GC | Gold | ABS | 8 g | 40 pcs | 320 pcs |

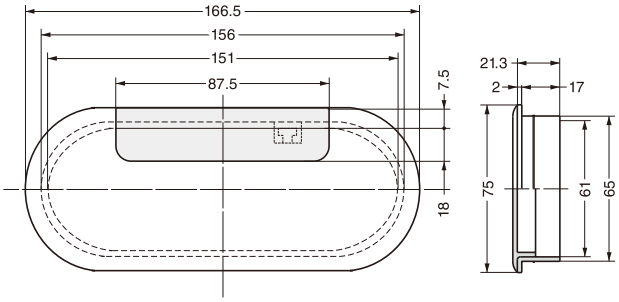
This information provides a range of quality for the component. It does not ensure the performance or safety of the final product incorporating the component.

# CABLE GROMMET S165-76

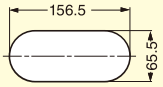
Latest Info




- Please push ▭ into back when using thin cables.
- All the front parts are removable for wide opening.



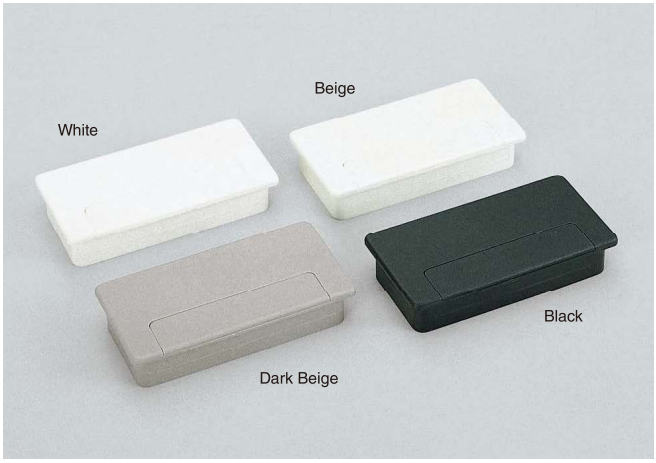

## Cut Out Dimensions



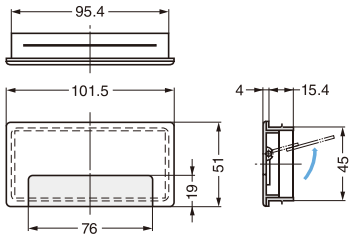

| Item Code | Item Name | Colour | Material | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-031-827 | S165-76CM | Ivory | ABS | 48 g | 5 pcs | 50 pcs |
| 210-031-826 | S165-76W | White | ABS | 48 g | 5 pcs | 50 pcs |
| 210-031-825 | S165-76G | Grey | ABS | 48 g | 5 pcs | 50 pcs |
| 210-031-824 | S165-76B | Black | ABS | 48 g | 5 pcs | 50 pcs |

# CABLE GROMMET S100-50

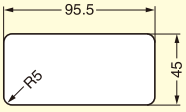
Latest Info




- All the front parts are removable for wide opening.




## Cut Out Dimensions

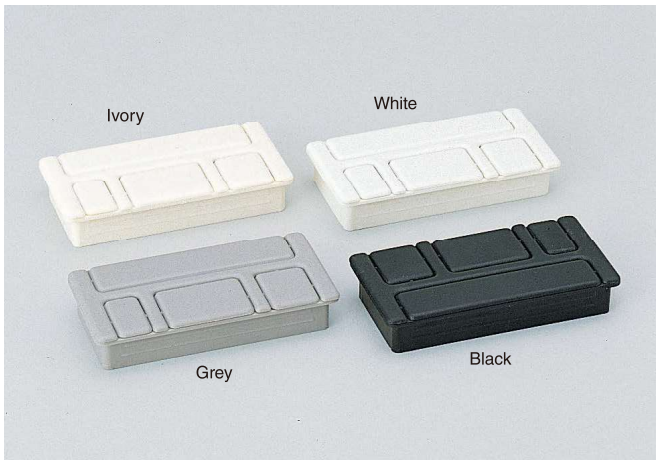



| Item Code | Item Name | Colour | Material | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-031-800 | S100-50W | White | ABS | 24 g | 15 pcs | 150 pcs |
| 210-031-801 | S100-50BE | Beige | ABS | 24 g | 15 pcs | 150 pcs |
| 210-031-840 | S100-50DBE | Dark Beige | ABS | 24 g | 15 pcs | 150 pcs |
| 210-031-841 | S100-50BL | Black | ABS | 24 g | 15 pcs | 150 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.

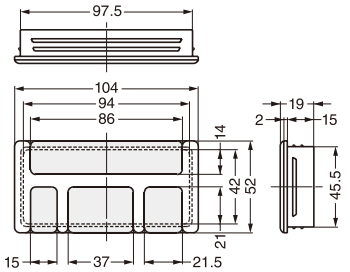
# CABLE GROMMET S1015-51

Latest Info

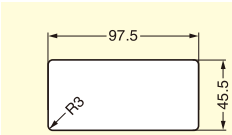



- Please fold and remove ▭ part according to the size of cables and location.
- All the front parts are removable for wide opening.

Feature



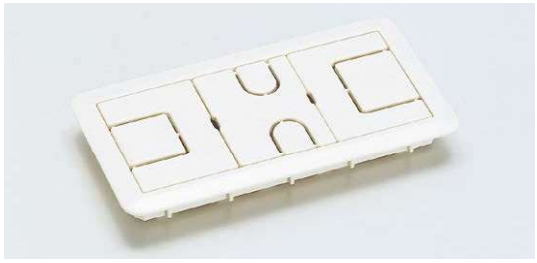

### Cut Out Dimensions

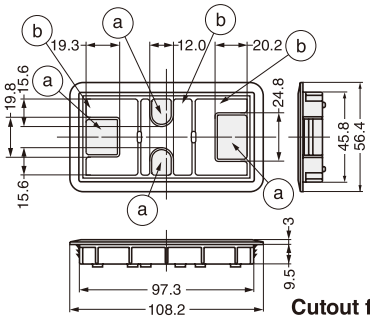



| Item Code | Item Name | Colour | Material | Weight | Box | Carton |
|---|---|---|---|---|---|---|
| 210-031-822 | S1015-51CM | Ivory | ABS | 22 g | 15 pcs | 150 pcs |
| 210-031-823 | S1015-51W | White | ABS | 22 g | 15 pcs | 150 pcs |
| 210-031-821 | S1015-51G | Grey | ABS | 22 g | 15 pcs | 150 pcs |
| 210-031-820 | S1015-51B | Black | ABS | 22 g | 15 pcs | 150 pcs |

# CABLE GROMMET ART973

Latest Info

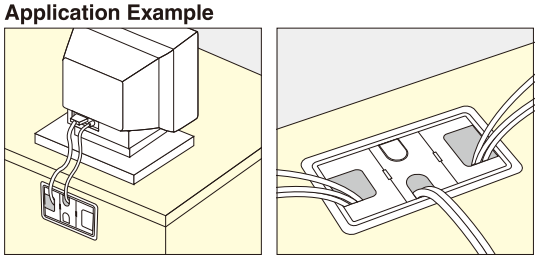




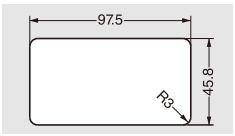

- In case of using with thin small cables, please remove the ⓐ parts.
- The ⓑ parts are also removable for wider opening.

Feature

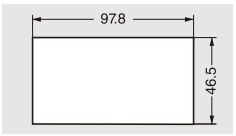
### Application Example



### Cutout for Wood




### Cutout for Sheet Metal



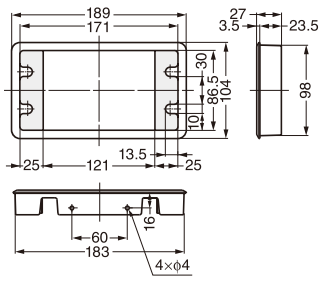

Thickness: 0.8 - 1 mm

| Item Code | Item Name | Material | Colour | Weight | Carton |
|---|---|---|---|---|---|
| 210-035-132 | ART973 | ABS | White | 17 g | 140 pcs |

# CABLE GROMMET V2000

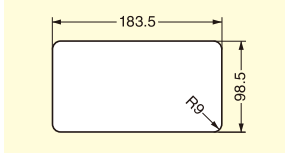
Latest Info




- All the front parts are removable for wide opening.

### Cut Out Dimensions




| Item Code | Item Name | Colour | Material | Weight | Carton |
|---|---|---|---|---|---|
| 210-031-861 | V2000W | White | Polystyrene (HIPS) | 104 g | 33 pcs |
| 210-031-863 | V2000BE | Beige | Polystyrene (HIPS) | 104 g | 33 pcs |
| 210-031-862 | V2000DBE | Dark Beige | Polystyrene (HIPS) | 104 g | 33 pcs |
| 210-031-860 | V2000B | Black | Polystyrene (HIPS) | 104 g | 33 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. CABLE GROMMET LSUKS/LSKS Square/One-sided

Latest Info

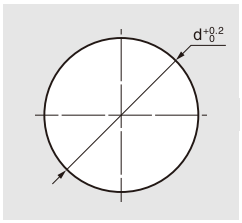


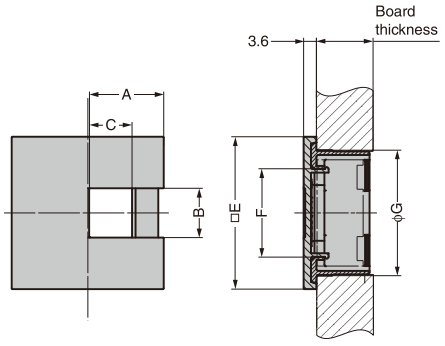

- The cap is removable for wide opening.
- Body can be fixed with nails to prevent rotation. When installing, please use nails to pierce into the 2 thin-walled locations on the backside of the body.
- Recommended nail: Pan head nail 1.2 × 10
  - Head diameter : 4mm or less
  - Shank diameter: 1.9mm or less

### Remarks

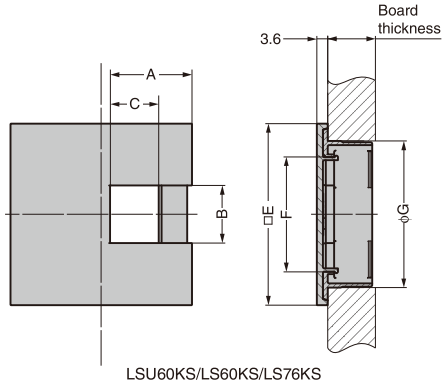
- Please install by pushing into place.
- Please use an adhesive when installing on a metal sheet.

### Cut Out Dimensions



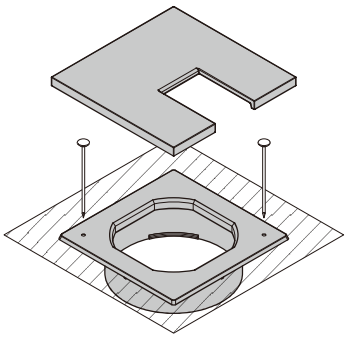




LS43KS/LS50KS




LSU60KS/LS60KS/LS76KS

### Components



### [LS43KS] Size: 43 mm

| Item Code | Item Name | Colour | Material | A | B | C | E | F | G | d | Board Thickness | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-043-445 | LS43KS-WT | White | ABS | 21 | 14 | 12 | 43 | 25 | 35.5 | 35 | Min. 16 | 7 | 20 | 160 |
| 210-043-446 | LS43KS-BE | Beige | | | | | | | | | | | 20 | 160 |
| 210-043-447 | LS43KS-LBR | Light Brown | | | | | | | | | | | 20 | 160 |
| 210-043-448 | LS43KS-DBR | Dark Brown | | | | | | | | | | | 20 | 160 |
| 210-043-449 | LS43KS-BL | Black | | | | | | | | | | | 20 | 160 |

### [LS50KS] Size: 50 mm

| Item Code | Item Name | Colour | Material | A | B | C | E | F | G | d | Board Thickness | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-043-450 | LS50KS-WT | White | ABS | 25 | 17 | 15 | 50 | 30 | 40.5 | 40 | Min. 16 | 9.2 | 20 | 160 |
| 210-043-451 | LS50KS-BE | Beige | | | | | | | | | | | 20 | 160 |
| 210-043-452 | LS50KS-LBR | Light Brown | | | | | | | | | | | 20 | 160 |
| 210-043-453 | LS50KS-DBR | Dark Brown | | | | | | | | | | | 20 | 160 |
| 210-043-454 | LS50KS-BL | Black | | | | | | | | | | | 20 | 160 |

### [LSU60KS] Size: 60 mm / Low-profile type

| Item Code | Item Name | Colour | Material | A | B | C | E | F | G | d | Board Thickness | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-035-866 | LSU60KS-WT | White | ABS | 27 | 19 | 16.1 | 60 | 38 | 48.5 | 48 | Min. 12 | 12 | 20 | 160 |
| 210-035-867 | LSU60KS-BE | Beige | | | | | | | | | | | 20 | 160 |
| 210-035-868 | LSU60KS-LBR | Light Brown | | | | | | | | | | | 20 | 160 |
| 210-035-869 | LSU60KS-DBR | Dark Brown | | | | | | | | | | | 20 | 160 |
| 210-035-870 | LSU60KS-BL | Black | | | | | | | | | | | 20 | 160 |

### [LS60KS] Size: 60 mm

| Item Code | Item Name | Colour | Material | A | B | C | E | F | G | d | Board Thickness | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-035-871 | LS60KS-WT | White | ABS | 27 | 19 | 16.1 | 60 | 38 | 48.5 | 48 | Min. 16 | 13 | 20 | 160 |
| 210-035-872 | LS60KS-BE | Beige | | | | | | | | | | | 20 | 160 |
| 210-035-873 | LS60KS-LBR | Light Brown | | | | | | | | | | | 20 | 160 |
| 210-035-874 | LS60KS-DBR | Dark Brown | | | | | | | | | | | 20 | 160 |
| 210-035-875 | LS60KS-BL | Black | | | | | | | | | | | 20 | 160 |

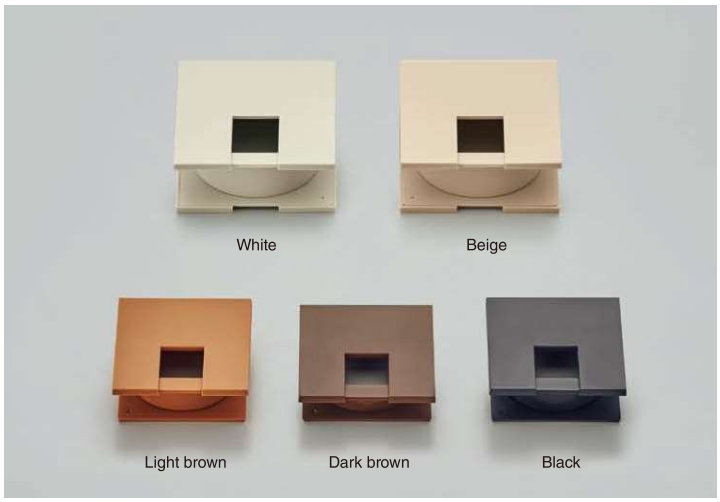
### [LS76KS] Size: 76 mm

| Item Code | Item Name | Colour | Material | A | B | C | E | F | G | d | Board Thickness | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-035-876 | LS76KS-WT | White | ABS | 34 | 22 | 22.8 | 76 | 53.5 | 64.5 | 64 | Min. 25 | 22 | 12 | 160 |
| 210-035-877 | LS76KS-BE | Beige | | | | | | | | | | | 12 | 160 |
| 210-035-878 | LS76KS-LBR | Light Brown | | | | | | | | | | | 12 | 160 |
| 210-035-879 | LS76KS-DBR | Dark Brown | | | | | | | | | | | 12 | 160 |
| 210-035-880 | LS76KS-BL | Black | | | | | | | | | | | 12 | 160 |


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.

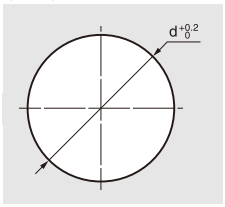
# LAMP. CABLE GROMMET LSUK/LSK Square/Double-sided

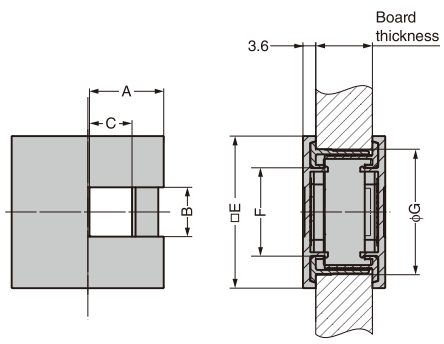
Latest Info



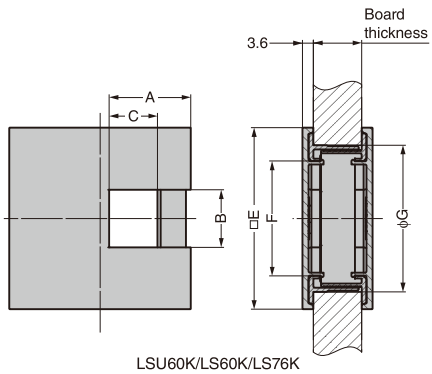

- Double-sided model which is suitable for vertical use.
- Applicable board thickness: 12-18mm, 16-26mm, 25-40mm.
- The cap is removable for wide opening.
- Square/one-sided model (P.1018) is also available.
- Round/double-sided (P.1009) and oval/double-sided (P.1015) models are also available.
- The body can be fixed with nails to prevent rotation. When installing, please use nails to pierce into the 2 thin-walled locations on the backside of the body.
- Recommended nail: Pan head nail 1.2×10
  - Head diameter: 4mm or less
  - Shank diameter: 1.9mm or less

## Cut Out Dimensions



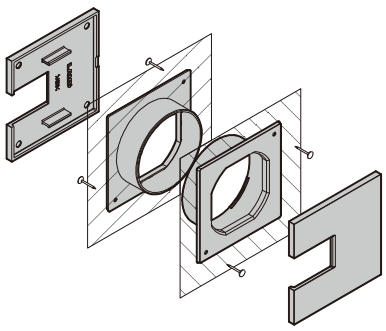




LS43K/LS50K




LSU60K/LS60K/LS76K

## Components



### [LS43K] Size: 43 mm

| Item Code | Item Name | Colour | Material | A | B | C | E | F | G | d | Board Thickness | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-043-455 | LS43K-WT | White | ABS | 21 | 14 | 12 | 43 | 25 | 35.5 | 35 | 16-26 | 13.7 | 20 | 160 |
| 210-043-456 | LS43K-BE | Beige | | | | | | | | | | | 20 | 160 |
| 210-043-457 | LS43K-LBR | Light Brown | | | | | | | | | | | 20 | 160 |
| 210-043-458 | LS43K-DBR | Dark Brown | | | | | | | | | | | 20 | 160 |
| 210-043-459 | LS43K-BL | Black | | | | | | | | | | | 20 | 160 |

### [LS50K] Size: 50 mm

| Item Code | Item Name | Colour | Material | A | B | C | E | F | G | d | Board Thickness | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-043-460 | LS50K-WT | White | ABS | 25 | 17 | 15 | 50 | 30 | 40.5 | 40 | 16-26 | 18 | 20 | 160 |
| 210-043-461 | LS50K-BE | Beige | | | | | | | | | | | 20 | 160 |
| 210-043-462 | LS50K-LBR | Light Brown | | | | | | | | | | | 20 | 160 |
| 210-043-463 | LS50K-DBR | Dark Brown | | | | | | | | | | | 20 | 160 |
| 210-043-464 | LS50K-BL | Black | | | | | | | | | | | 20 | 160 |

### [LSU60K] Size: 60 mm/ Low-profile type

| Item Code | Item Name | Colour | Material | A | B | C | E | F | G | d | Board Thickness | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-035-851 | LSU60K-WT | White | ABS | 27 | 19 | 16.1 | 60 | 38 | 48.5 | 48 | 12-18 | 24 | 20 | 160 |
| 210-035-852 | LSU60K-BE | Beige | | | | | | | | | | | 20 | 160 |
| 210-035-853 | LSU60K-LBR | Light Brown | | | | | | | | | | | 20 | 160 |
| 210-035-854 | LSU60K-DBR | Dark Brown | | | | | | | | | | | 20 | 160 |
| 210-035-855 | LSU60K-BL | Black | | | | | | | | | | | 20 | 160 |

### [LS60K] Size: 60 mm

| Item Code | Item Name | Colour | Material | A | B | C | E | F | G | d | Board Thickness | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-035-856 | LS60K-WT | White | ABS | 27 | 19 | 16.1 | 60 | 38 | 48.5 | 48 | 16-26 | 25 | 20 | 160 |
| 210-035-857 | LS60K-BE | Beige | | | | | | | | | | | 20 | 160 |
| 210-035-858 | LS60K-LBR | Light Brown | | | | | | | | | | | 20 | 160 |
| 210-035-859 | LS60K-DBR | Dark Brown | | | | | | | | | | | 20 | 160 |
| 210-035-860 | LS60K-BL | Black | | | | | | | | | | | 20 | 160 |

### [LS76K] Size: 76 mm

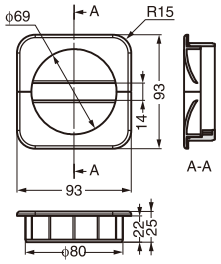
| Item Code | Item Name | Colour | Material | A | B | C | E | F | G | d | Board Thickness | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-035-861 | LS76K-WT | White | ABS | 34 | 22 | 22.8 | 76 | 53.5 | 64.5 | 64 | 25-40 | 42 | 12 | 160 |
| 210-035-862 | LS76K-BE | Beige | | | | | | | | | | | 12 | 160 |
| 210-035-863 | LS76K-LBR | Light Brown | | | | | | | | | | | 12 | 160 |
| 210-035-864 | LS76K-DBR | Dark Brown | | | | | | | | | | | 12 | 160 |
| 210-035-865 | LS76K-BL | Black | | | | | | | | | | | 12 | 160 |

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.

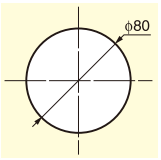
# CABLE GROMMET S93-14SL

Latest Info

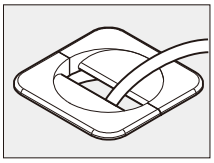





**Cut Out Dimensions**




**Application Example**

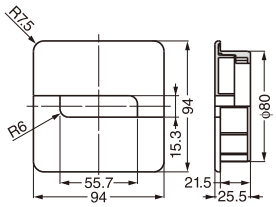


| Item Code | Item Name | Material | Colour | Weight | Box |
|---|---|---|---|---|---|
| 210-030-316 | S93-14SL | ABS | Silver | 40 g | 132 pcs |

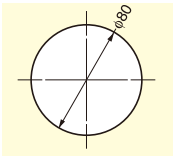
# CABLE GROMMET S80

Latest Info

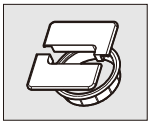



**Cut Out Dimensions**




**Application Example**



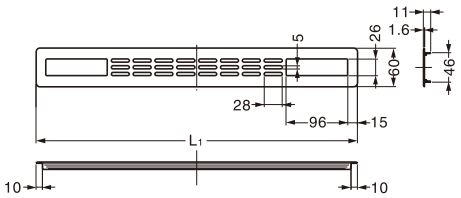
| Item Code | Item Name | Finish | Material | Weight | Carton |
|---|---|---|---|---|---|
| 210-180-925 | S80CG | Clear Chrome | ABS | 51 g | 99 pcs |
| 210-180-926 | S80C | Satin Chrome | ABS | 51 g | 99 pcs |

# LAMP. CABLE GROMMET HTK

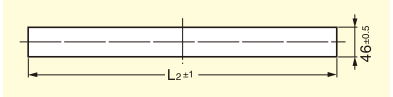
Latest Info



- Can be used as ventilator and cable grommet for electronic appliance racks.




**Cut Out Dimensions**




| Item Code | Item Name | Material | Finish | $L_1$ | $L_2$ | Weight | Box | Carton |
|---|---|---|---|---|---|---|---|---|
| 210-017-543 | HTK-400 | Alloy | Silver | 400 | 380 | 110 g | 10 pcs | 100 pcs |
| 210-017-542 | HTK-500 | Alloy | Silver | 500 | 480 | 133 g | 10 pcs | 100 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.







# M

# GLASS ACCESSORIES & MISCELLANEOUS



**GLASS ACCESSORIES**

These components are designed for glass. The lineup includes glass fixing fittings,  edge seals to protect glass edges, and more.

# Selection Guide for Glass Accessories and Miscellaneous

## Product Types









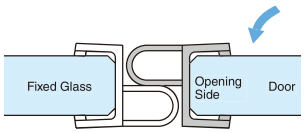
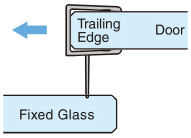
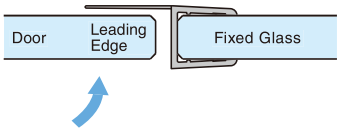
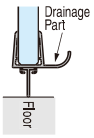
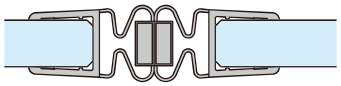
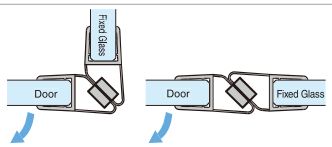

## Glass Point Fixings

### Table of Point Fixes® for Glass Fences

| | Type | | Page |
|---|---|---|---|
| **GPA-A1** | No Arm<br>(to be supplied by the customer) |  GPA-A1-SM  GPA-A1-SS | P.1351 |
| **GPA-F2** | Double Arm |  GPA-F2-SM  GPA-F2-SS | P.1352 |
| **GPA-F1** | Single Arm |  GPA-F1-SM  GPA-F1-SS | P.1353 |
| **GPA-S1** | |  GPA-S1-SM  GPA-S1-SS | |
| **GPAS-F1-SS**<br>NEW | Single Arm |  | P.1354 |
| **GPAS-F2-SS**<br>NEW | Double Arm |  | |
| **GPAS-S1-SS**<br>NEW | Single Arm |  | P.1355 |
| **HRB-AG**<br>**(Not Glass Point Fixing)**<br>NEW | Handle Bracket |  Mirror Finish  Satin  Black<br>(Special Colour) | |

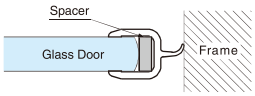
# Glass Edge Seals

*1 Representative usage is shown. Consider other usage methods as needed upon verification by the customer.
*2 In some cases, colour, shape, length, glass thickness, etc., can be suited to the customer's preferences. Contact your Sugatsune sales representative for details.
*3 When considering use in extreme low or high temperatures, be sure to contact your Sugatsune sales representative.

| | Shape | Name | Glass Thickness | Applications (guidelines)*1 | | Function | Page |
|---|---|---|---|---|---|---|---|
| | | | | Door Type | Usage Location | | |
|  |  | 207A NEW | 8, 10 | Swing Door | Opening Side | — | P.1356 |
|  |  | 304LB NEW | 8, 10 | Sliding Door | Trailing Edge | — | |
|  |  | 303 NEW | 8, 10, 12 | Swing Door | Leading Edge | — | |
|  |  | 308GD NEW | 8, 10 | | | With Magnet | |
|  |  | 309DC NEW | 8, 10 | | Door Bottom | Drainage type | P.1357 |
|  |  | 308GSP NEW | 8, 10 | Sliding Door | Leading Edge | With Magnet | |
|  |  | 308GA NEW | 8, 10, 12 | Swing Door | | | |
|  |  | GP | 6, 8, 10, 12, 15 | Edge Surface | | — | P.1358 |

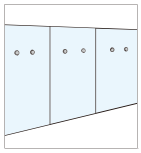


Spacer For Glass Edge Seal
SPC6 NEW
P.1358






Marker For Glass Panel
GM NEW
P.1358



# Others



Tray Unit
TU-380
P.1359



Pen Tray
PT-1
P.1359



Ratchet Height Adjuster
VA-RCT NEW
P.1360



Rotating Plate
HTS NEW
P.1361



Swivel
HF
P.1362

# LAMP STAINLESS STEEL POINT FIX® FOR GLASS FENCES GPA Series



# Beautiful Design and Easy Mounting

## Point Fix for Glass Fences | GPA Series

## Exceptional Beauty

### Focus on the Finish





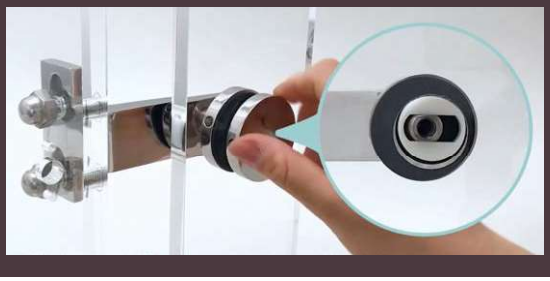
Sugatsune's expertise in stainless steel ensures exceptional product quality. Whether it's a mirror finish or a satin one, stringent control processes guarantee a stunning result.

### 360° of Elegance



Every aspect of the Point Fix has been meticulously crafted to maintain the elegance of any glass fence. The sophisticated design conceals the horizontal adjustment hole on the back, preserving a seamless look.

## Effortless Mounting



### Simple Horizontal and Forward Adjustment*

Fastening the nut and cap with a tool makes mounting effortless. With an innovative adjustment bushing mechanism, loosening the cap allows for quick glass position adjustments.

*For normal size. Forward adjustment is possible with the small size.

Movie

### Table of Point Fixes® for Glass Fences

| | Size | Type | Post Mounting Position | Finish | Glass Thickness | Load Capacity N | Adjustment Adjustable with glass mounted | Page |
|---|---|---|---|---|---|---|---|---|
| GPA-A1 | Normal | No Arm (to be supplied by the customer) | – | Mirror / Satin | 8 to 13.5 | 700 | Front / Horizontal | P.1351 |
| GPA-F2 | | Double Arm | Front | | | 350 | | P.1352 |
| GPA-F1 | | Single Arm | | | | | | P.1353 |
| GPA-S1 | | | Side | | | 700 | Front / Horizontal / Vertical | |
| GPAS-F1-SS | Small | Single Arm | Front | Satin | 8 (5 to 8 for resin panel) | 160 | Front | P.1354 |
| GPAS-F2-SS | | Double Arm | | | | | | |
| GPAS-S1-SS | | Single Arm | Side | | | | | P.1355 |

*When supported at 4 points and mounted vertically



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 POINT FIXING GPA-A1

Latest Info




- Can be mounted to an arm to create a glass fence.
- 2 way adjustment function.

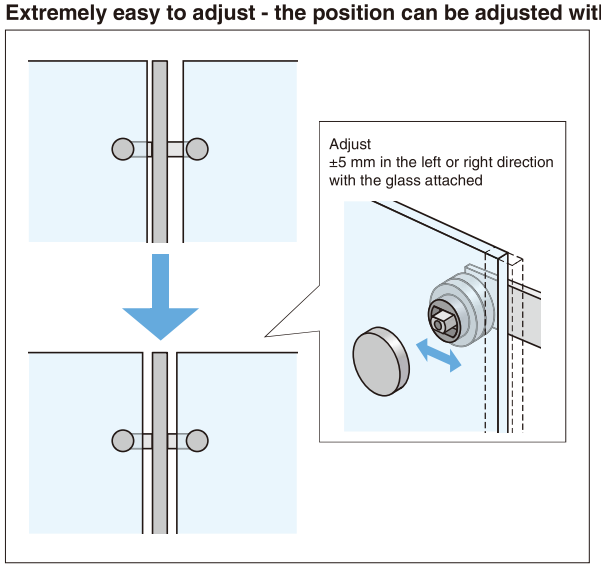
TEMPERED GLASS | SUS

## Remarks
- Mounting tool required.

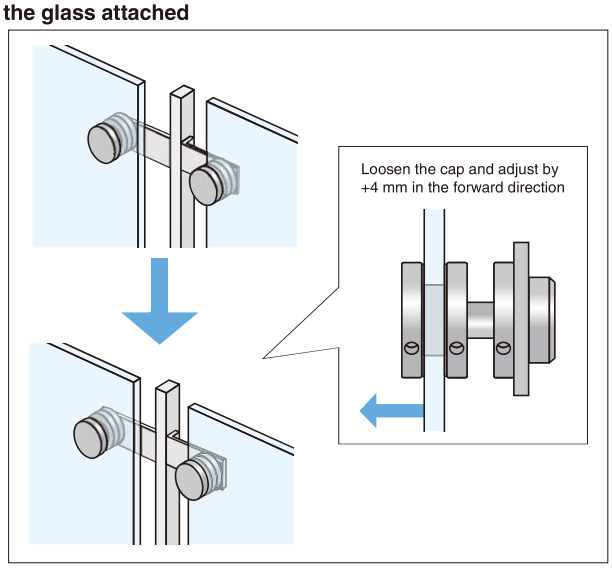
## Sold Separately
- Mounting tool: 201013-050

Feature

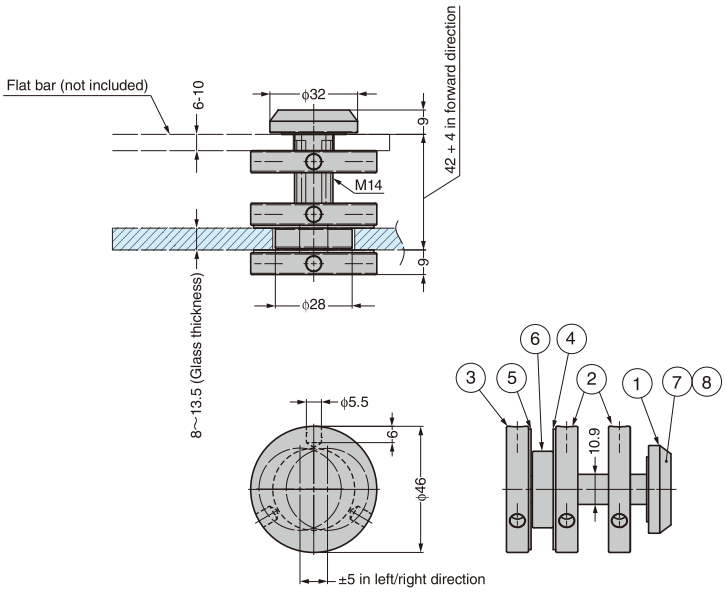
## Extremely easy to adjust - the position can be adjusted with the glass attached



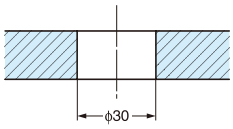

The fence can be moved left or right after attaching the glass.



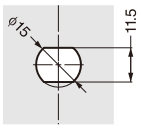

Variance in the fence can be adjusted after attaching the glass.




### Cut Out Dimensions




### Flat Bar Dimensions




| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Shaft | Stainless Steel (SCS13) | As Below |
| ② | Nut | Stainless Steel (SUS304) | |
| ③ | Cap | Stainless Steel (SCS13) | |
| ④ | Seal A | Chloroprene Rubber (CR) | Black |
| ⑤ | Seal B | | |
| ⑥ | Left/right Adjustable Bushing | Polyacetal (POM) | Natural |
| ⑦ | M14 Spring Washer | Stainless Steel | – |
| ⑧ | Plain Washer Nominal 14 | | |



### Mounting Tool (Sold Separately)

| Item Code | Item Name |
|---|---|
| 270-021-337 | 201013-050 |

| Item Code | Item Name | Finish | Glass Thickness | Load Capacity N* | Load Capacity kgf* | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|
| 120-042-223 | GPA-A1-SM | Polished | 8 - 13.5 | 700 | 71 | 390 | 1 | 24 |
| 120-047-202 | GPA-A1-SS | Satin | 8 - 13.5 | 700 | 71 | 390 | 1 | 24 |

*Using 4 pcs when installed vertically

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 POINT FIXING GPA-F2 Front-mount / Double Arms

Latest Info




- Glass fence can be created by fixing the glass plates between posts.
- Adjustable after mounting the glass plates.

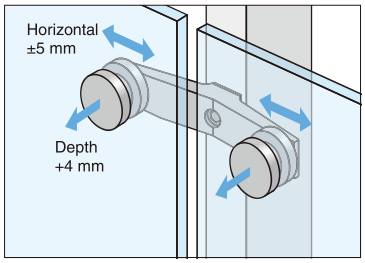
TEMPERED GLASS | SUS

## Parts Included
- Safety Pin

## Sold Separately
- Mounting Tool 201013-050

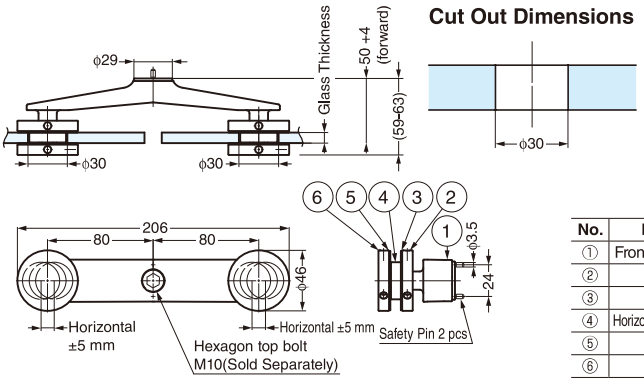
## Recommended Screw
- Hexagon top bolt (Stainless Steel) M10

## Adjustment Range




Feature

## Cut Out Dimensions




| No. | Part Name | Material | Finish / Colour |
|---|---|---|---|
| ① | Front-mounting arm | Stainless Steel (SCS13) | As Below |
| ② | Nut | Stainless Steel (SUS304) | Mirror |
| ③ | Gasket A | Chloroprene rubber (CR) | Black |
| ④ | Horizontal adjustment bush | Polyacetal (POM) | Natural |
| ⑤ | Gasket B | Chloroprene rubber (CR) | Black |
| ⑥ | Cap | Stainless Steel (SUS304) | As Below |

### Mounting Tool (Sold Separately)

| Item Code | Item Name |
|---|---|
| 270-021-337 | 201013-050 |

| Item Code | Item Name | Finish | Glass Thickness | Load Capacity N* | Load Capacity kgf* | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|
| 120-036-907 | GPA-F2-SM | Polished | 8 - 13.5 | 350 | 36 | 1000 | 1 | 10 |
| 120-047-200 | GPA-F2-SS | Satin | 8 - 13.5 | 350 | 36 | 1000 | 1 | 10 |

*Using 4 pcs when installed vartically


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 POINT FIXING GPA-F1 Front-mount / Single Arm

Latest Info




- Glass fence can be created by fixing the glass plates between posts.
- Adjustable after mounting the glass plates.
- Non-handed

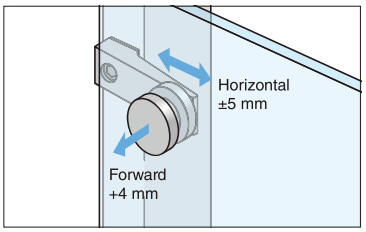
TEMPERED GLASS | SUS

## Parts Included
- Safety Pin

## Sold Separately
- Mounting Tool 201013-050

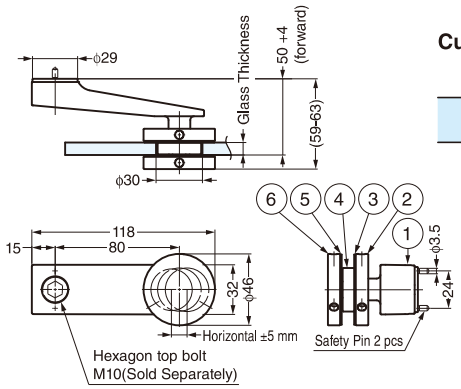
## Recommended Screw
- Hexagon top bolt (Stainless Steel) M10

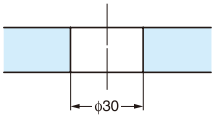
## Adjustment Range




Feature

## Cut Out Dimensions




| No. | Part Name | Material | Finish / Colour |
|---|---|---|---|
| ① | Front-mounting arm | Stainless Steel (SCS13) | As Below |
| ② | Nut | Stainless Steel (SUS304) | As Below |
| ③ | Gasket A | Chloroprene rubber (CR) | Black |
| ④ | Horizontal adjustment bush | Polyacetal (POM) | Natural |
| ⑤ | Gasket B | Chloroprene rubber (CR) | Black |
| ⑥ | Cap | Stainless Steel (SUS304) | As Below |

### Mounting Tool (Sold Separately)

| Item Code | Item Name |
|---|---|
| 270-021-337 | 201013-050 |

| Item Code | Item Name | Finish | Glass Thickness | Load Capacity N* | Load Capacity kgf* | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|
| 120-036-906 | GPA-F1-SM | Polished | 8-13.5 | 350 | 36 | 550 | 1 | 16 |
| 120-047-199 | GPA-F1-SS | Satin | 8-13.5 | 350 | 36 | 550 | 1 | 16 |

*Using 4 pcs when installed vertically

# LAMP GLASS POINT FIXING GPA-S1 Side-mount / Single Arm

Latest Info



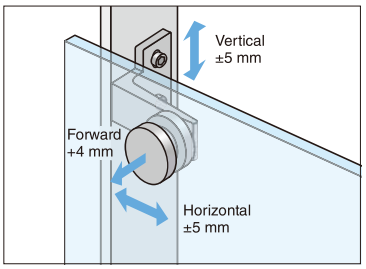

- Glass fence can be created by fixing the glass plates between posts.
- Adjustable after mounting the glass plates.
- Non-handed

TEMPERED GLASS | SUS

## Sold Separately
- Mounting Tool 201013-050

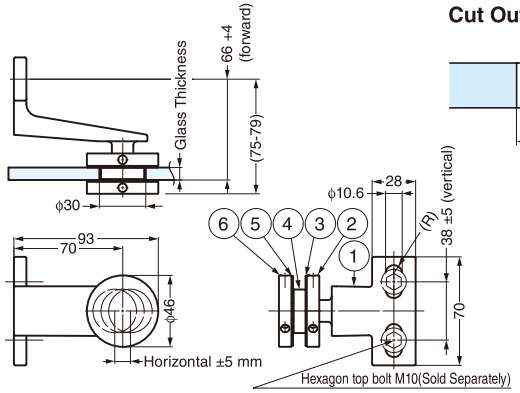
## Recommended Screw
- Hexagon top bolt (Stainless Steel) M10
- Flat Washer ϕ10

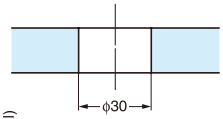
## Adjustment Range




Feature

## Cut Out Dimensions




| No. | Part Name | Material | Finish / Colour |
|---|---|---|---|
| ① | Side-mounting arm | Stainless Steel (SCS13) | As Below |
| ② | Nut | Stainless Steel (SUS304) | As Below |
| ③ | Gasket A | Chloroprene rubber (CR) | Black |
| ④ | Horizontal adjustment bush | Polyacetal (POM) | Natural |
| ⑤ | Gasket B | Chloroprene rubber (CR) | Black |
| ⑥ | Cap | Stainless Steel (SUS304) | As Below |

### Mounting Tool (Sold Separately)

| Item Code | Item Name |
|---|---|
| 270-021-337 | 201013-050 |

| Item Code | Item Name | Finish | Glass Thickness | Load Capacity N* | Load Capacity kgf* | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|
| 120-036-908 | GPA-S1-SM | Polished | 8-13.5 | 700 | 71 | 580 | 1 | 16 |
| 120-047-201 | GPA-S1-SS | Satin | 8-13.5 | 700 | 71 | 580 | 1 | 16 |

*Using 4 pcs when installed vertically

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 POINT FIXING GPAS-F1-SS Compact / Front-mount / Single Arm NEW

Latest Info



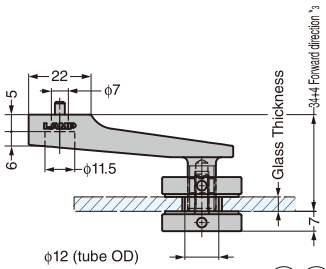
- A fence can be created by fixing resin panels or glass on the posts.
- The panel position can be adjusted in the forward direction post installation. (*3)
- GPAS is a compact model of GPA series. It is ideal for residential use.
- Non-handed.

INSTRUCTION | TEMPERED GLASS | SUS

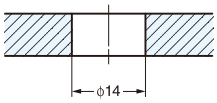
**Parts Included**
- Rotation Stopper Pin

**Sold Separately**
- Mounting tool FP2528

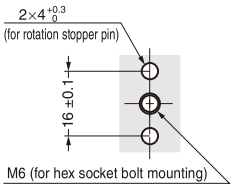
**Recommended Screws**
- Hex socket bolts M6 (stainless steel)



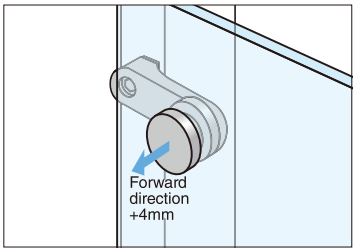

**Glass Cut Out**

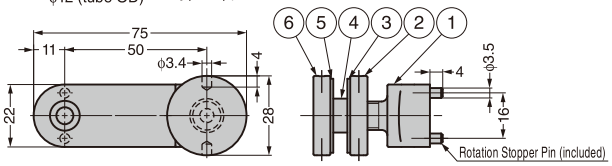



**Machining on Posts**




**Adjustment Range**




| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Front-mounting Single Arm | Stainless Steel (SCS13) | Satin |
| ② | Nut | Stainless Steel (SUS303) | |
| ③ | Gasket A | Chloroprene Rubber (CR) | Black |
| ④ | Tube | Polyvinyl Chloride (PVC) | – |
| ⑤ | Gasket B | Chloroprene Rubber (CR) | Black |
| ⑥ | Cap | Stainless Steel (SUS303) | Satin |

**Body**

| Item Code | Item Name | Finish | Glass Thickness*1 | Load Capacity N*2 | Load Capacity kgf*2 |
|---|---|---|---|---|---|
| 120-049-258 | GPAS-F1-SS | Satin | 5 - 8 | 160 | 16 |

**Mounting Tool (Sold Separately)**

| Item Code | Item Name |
|---|---|
| 120-050-035 | FP2528 |

*1 8 mm thick glass is recommended. *2 Load capacity when supported at 4 points and mounted vertically.
*3 Glass less than 8 mm thick cannot be adjusted.

## LAMP GLASS POINT FIXING GPAS-F2-SS Compact / Front-mount / Double Arms NEW

Latest Info



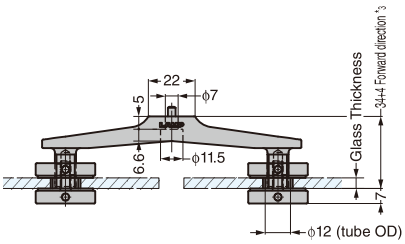
- A fence can be created by fixing resin panels or glass on the posts.
- The panel position can be adjusted in the forward direction post installation. (*3)
- GPAS is a compact model of GPA series. It is ideal for residential use.

INSTRUCTION | TEMPERED GLASS | SUS

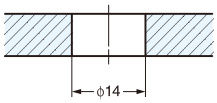
**Parts Included**
- Rotation Stopper Pin

**Sold Separately**
- Mounting tool FP2528

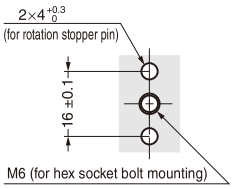
**Recommended Screws**
- Hex socket bolts M6 (stainless steel)



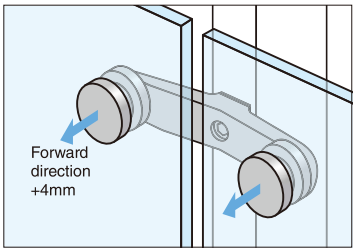

**Glass Cut Out**

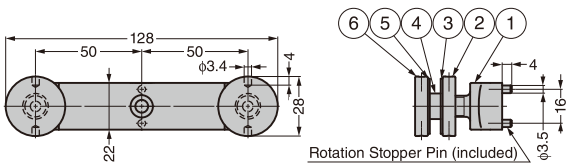



**Machining on Posts**




**Adjustment Range**




| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Front-mounting Double Arm | Stainless Steel (SCS13) | Satin |
| ② | Nut | Stainless Steel (SUS303) | |
| ③ | Gasket A | Chloroprene Rubber (CR) | Black |
| ④ | Tube | Polyvinyl Chloride (PVC) | – |
| ⑤ | Gasket B | Chloroprene Rubber (CR) | Black |
| ⑥ | Cap | Stainless Steel (SUS303) | Satin |

**Body**

| Item Code | Item Name | Finish | Glass Thickness*1 | Load Capacity N*2 | Load Capacity kgf*2 |
|---|---|---|---|---|---|
| 120-049-259 | GPAS-F2-SS | Satin | 5 - 8 | 160 | 16 |

**Mounting Tool (Sold Separately)**

| Item Code | Item Name |
|---|---|
| 120-050-035 | FP2528 |

*1 8 mm thick glass is recommended. *2 Load capacity when supported at 4 points and mounted vertically.
*3 Glass less than 8 mm thick cannot be adjusted.


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 POINT FIXING GPAS-S1-SS Compact / Side-mount / Single Arm NEW

Latest Info



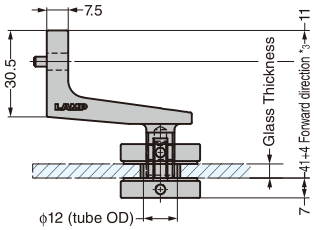
- A fence can be created by fixing resin panels or glass on the posts.
- The panel position can be adjusted in the forward direction post installation. (*3)
- GPAS is a compact model of GPA series. It is ideal for residential use.
- Non-handed.

INSTRUCTION | TEMPERED GLASS | SUS

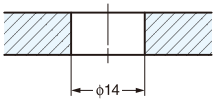
**Parts Included**
- Rotation Stopper Pin

**Recommended Screws**
- Hex socket bolts M6 (stainless steel)

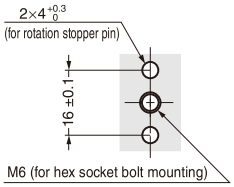
**Sold Separately**
- Mounting tool FP2528



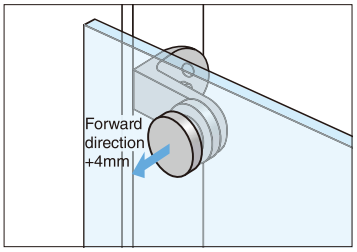

**Glass Cut Out**

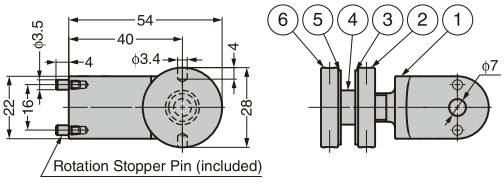



**Machining on Posts**




**Adjustment Range**




| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Side-mounting Single Arm | Stainless Steel (SCS13) | Satin |
| ② | Nut | Stainless Steel (SUS303) | |
| ③ | Gasket A | Chloroprene Rubber (CR) | Black |
| ④ | Tube | Polyvinyl Chloride (PVC) | – |
| ⑤ | Gasket B | Chloroprene Rubber (CR) | Black |
| ⑥ | Cap | Stainless Steel (SUS303) | Satin |

**Body**

| Item Code | Item Name | Finish | Glass Thickness*1 | Load Capacity N*2 | Load Capacity kgf*2 |
|---|---|---|---|---|---|
| 120-049-260 | GPAS-S1-SS | Satin | 5 - 8 | 160 | 16 |

*1 8 mm thick glass is recommended. *2 Load capacity when supported at 4 points and mounted vertically.
*3 Glass less than 8 mm thick cannot be adjusted.

**Mounting Tool (Sold Separately)**

| Item Code | Item Name |
|---|---|
| 120-050-035 | FP2528 |

# LAMP HANDRAIL BRACKET HRB-AG Stainless Steel / Glass Mounted NEW

Latest Info



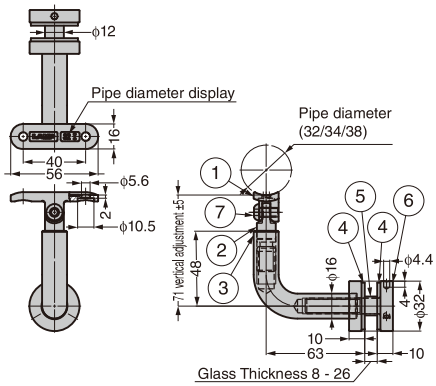

- Glass-mounted bracket for round handrails.
- Because the handrail bracket receiver angle can be changed, the hardware can be mounted vertically to the floor, on stairs, and on slopes.
- The handrail height can be adjusted by ±5 mm.
- Special colours including black are available as a special order.

INSTRUCTION | TEMPERED GLASS | SUS

Installation

**Recommended Screws**
- Hex socket button bolts M5 (for handrail pipe mounting)

**Remarks**
- Use at a hardware mounting pitch of 900 mm or less.

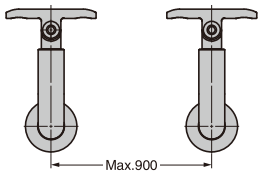



**Mirror Finish**

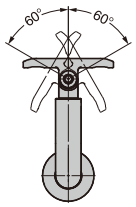


Meticulously polished for its mirror-like finish.

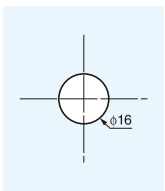
| No. | Part Name | Material |
|---|---|---|
| ① | Pan | Stainless Steel (SCS13) |
| ② | Rod | Stainless Steel (SUS304) |
| ③ | Arm | |
| ④ | Gasket | Chloroprene Rubber (CR) |
| ⑤ | Tube | Polyvinyl Chloride (PVC) |
| ⑥ | Cap | Stainless Steel (SUS304) |
| ⑦ | Hex socket button bolts M6×12 | – |




**Angle Adjustment**




**Glass Cut Out**






**Body**

| Item Code | Item Name | Finish/Colour | Glass Thickness | Pipe Dia. | Load Capacity N | Load Capacity kgf |
|---|---|---|---|---|---|---|
| 270-047-816 | HRB-AG-R32-SM | Mirror Finish | 8 - 26 | 32 | 1200 | 122 |
| 270-047-817 | HRB-AG-R32-SS | Satin | | | | |
| 270-047-818 | HRB-AG-R34-SM | Mirror Finish | | 34 | | |
| 270-047-819 | HRB-AG-R34-SS | Satin | | | | |
| 270-047-820 | HRB-AG-R38-SM | Mirror Finish | | 38 | | |
| 270-047-821 | HRB-AG-R38-SS | Satin | | | | |

*The load capacity value is for the hardware itself.

**Mounting Tool (Sold Separately)**

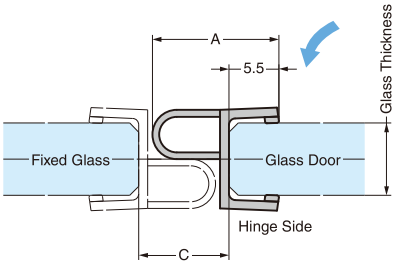
| Item Code | Item Name |
|---|---|
| 270-021-338 | 201013-030 |

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.

## GLASS EDGE SEAL 207A NEW

Latest Info






- Protects the edge of glass doors.
- Designed to be installed on the hinge side of doors.
- Seals the gap between glass doors and fixed glass.
- No tools are required for installation.

TEMPERED GLASS

**Remarks**
- Sold in 3000 mm lengths. Cut to the required length for use.

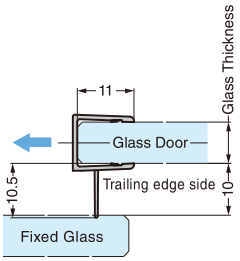
| Glass Thickness | A | C |
|---|---|---|
| 8 | 14 | 10 |
| 10 | 15 | 11 |

| Item Code | Item Name | Material | Colour | Length | Glass Thickness |
|---|---|---|---|---|---|
| 270-053-739 | 207A-8-3000 | Polyvinyl Chloride (PVC) | Semi-Transparent | 3000 | 8 |
| 270-053-740 | 207A-10-3000 | | | | 10 |

## GLASS EDGE SEAL 304LB NEW

Latest Info






- Protects the edge of glass doors.
- Designed to be installed on the trailing edge of sliding doors.
- No tools are required for installation.

TEMPERED GLASS

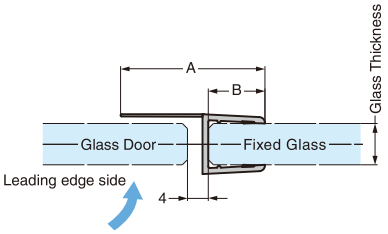
**Remarks**
- Sold in 3000 mm lengths. Cut to the required length for use.

| Item Code | Item Name | Material | Colour | Length | Glass Thickness |
|---|---|---|---|---|---|
| 270-053-741 | 304LB-8-3000 | Polyvinyl Chloride (PVC) | Semi-Transparent | 3000 | 8 |
| 270-053-742 | 304LB-10-3000 | | | | 10 |

## GLASS EDGE SEAL 303 NEW

Latest Info






- Protects the edge of fixed glass.
- Seals the gap between fixed glass and glass doors.
- No tools are required for installation.

TEMPERED GLASS

**Remarks**
- Sold in 3000 mm lengths. Cut to the required length for use.

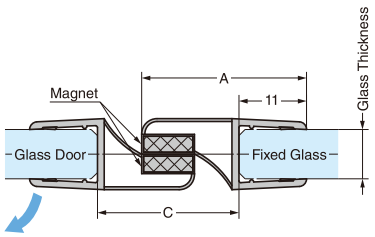
| Glass Thickness | A | B |
|---|---|---|
| 8, 10 | 28 | 11 |
| 12 | 28.5 | 11.5 |

| Item Code | Item Name | Material | Colour | Length | Glass Thickness |
|---|---|---|---|---|---|
| 270-053-751 | 303-8-16-3000 | Polyvinyl Chloride (PVC) | Semi-Transparent | 3000 | 8 |
| 270-053-752 | 303-10-16-3000 | | | | 10 |
| 270-053-753 | 303-12-16-3000 | | | | 12 |

## GLASS EDGE SEAL 308GD With Magnet NEW

Latest Info






- Protects the edge of glass doors.
- The built-in magnet provides tighter sealing against water.
- No tools are required for installation.

TEMPERED GLASS

**Remarks**
- Sold in 3000 mm lengths. Cut to the required length for use.

| Glass Thickness | A | B |
|---|---|---|
| 8 | 27 | 23 |
| 10 | 29 | 25 |

Sold in sets of 2 pcs.

| Item Code | Item Name | Material | Colour | Length | Glass Thickness |
|---|---|---|---|---|---|
| 270-053-735 | 308GD-8-3000 | Polyvinyl Chloride (PVC) | Semi-Transparent | 3000 | 8 |
| 270-053-736 | 308GD-10-3000 | | | | 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.

# GLASS EDGE SEAL 309DC Drainage Type NEW

Latest Info



- Protects the edge of glass doors.
- Designed to be installed on the bottom of doors and seal the floor gap.
- Groove helps drain water droplets on outward opening shower doors to prevent them from dripping on the bathroom floor.
- Must use with the end parts set (drainage port and cap / sold separately).
- No tools are required for installation.

TEMPERED GLASS

**Sold Separately**
- End parts set

**Remarks**
- Sold in 3000 mm lengths. Cut to the required length for use.
- If the sealing part does not fit the floor perfectly, please adhere this product to the glass.

**[End Parts Set] Sold Separately**







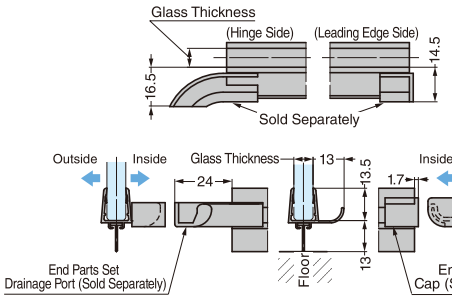



*Figure shows the right-handed type.

Feature

**Body**

| Item Code | Item Name | Material | Colour | Length | Glass Thickness |
|---|---|---|---|---|---|
| 270-053-743 | 309DC-8-3000 | Polyvinyl Chloride (PVC) | Semi-Transparent | 3000 | 8 |
| 270-053-744 | 309DC-10-3000 | | | | 10 |

**End Parts Set (Sold Separately)**

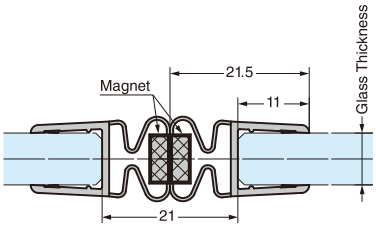
Sold in sets of 2 pcs.

| Item Code | Item Name | Handed | Material | Colour | Glass Thickness |
|---|---|---|---|---|---|
| 270-053-745 | 309DC-R | Right | Polyvinyl Chloride (PVC) | Semi-Transparent | 8, 10 |
| 270-053-785 | 309DC-L | Left | | | |

# GLASS EDGE SEAL 308GSP With Magnet NEW

Latest Info






- Protects the edge of glass doors.
- The shape of the edge of the seal is designed to absorb the shock of closing doors.
- Seals the gap between sliding doors. The built-in magnet provides tighter sealing against water.
- No tools are required for installation.
- Suitable for glass sliding doors that open in opposite directions.

TEMPERED GLASS

**Remarks**
- Sold in 3000 mm lengths. Cut to the required length for use.

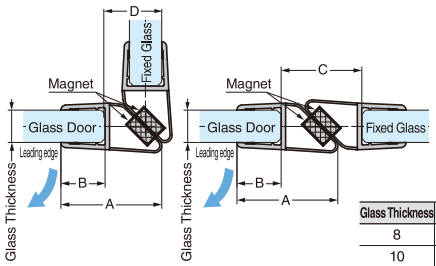
Sold in sets of 2 pcs.

| Item Code | Item Name | Material | Colour | Length | Glass Thickness |
|---|---|---|---|---|---|
| 270-053-737 | 308GSP-8-3000 | Polyvinyl Chloride (PVC) | Semi-Transparent | 3000 | 8 |
| 270-053-738 | 308GSP-10-3000 | | | | 10 |

# GLASS EDGE SEAL 308GA With Magnet NEW

Latest Info






| Glass Thickness | A | B | C | D |
|---|---|---|---|---|
| 8 | 25 | 11 | 20 | 14 |
| 10 | 26 | | 21 | 15.5 |
| 12 | 27 | 11.5 | 20 | 16 |

- Protects the edge of glass doors.
- Seals the gap between glass doors and fixed glass which are positioned at 90° or 180°. The built-in magnet provides tighter sealing against water.
- No tools are required for installation.

TEMPERED GLASS

**Remarks**
- Sold in 3000 mm lengths. Cut to the required length for use.

Sold in sets of 2 pcs.

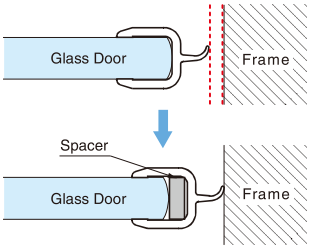
| Item Code | Item Name | Material | Colour | Length | Glass Thickness |
|---|---|---|---|---|---|
| 270-053-746 | 308GA-8-3000 | Polyvinyl Chloride (PVC) | Semi-Transparent | 3000 | 8 |
| 270-053-747 | 308GA-10-3000 | | | | 10 |
| 270-053-748 | 308GA-12-3000 | | | | 12 |

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.

# SPACER FOR GLASS EDGE SEAL SPC6 NEW

Latest Info






- Reduces the space between edge seals and frames (leading edge).
- Please attach the spacer to glass doors before installing edge seals.

TEMPERED GLASS

### Compatible Parts

- Glass Edge Seal 304LB (P.1356)
- Glass Edge Seal 303 (P.1356)
- Glass Edge Seal With Magnet 308GD (P.1356)
- Glass Edge Seal With Magnet 308GA (P.1357)
- Glass Edge Seal With Magnet 308GSP (P.1357)
- Glass Edge Seal Drainage Type 309DC (P.1357)

Sold in sets of 6 pcs.

| Item Code | Item Name | Material | Colour | Length | Thickness | Width |
|---|---|---|---|---|---|---|
| 270-053-913 | SPC6-1-400 | Polyvinyl Chloride (PVC) | Semi-Transparent | 400 | 1 | 6 |

# LAMP MARKER FOR GLASS PANEL GM NEW

Latest Info



GM-01

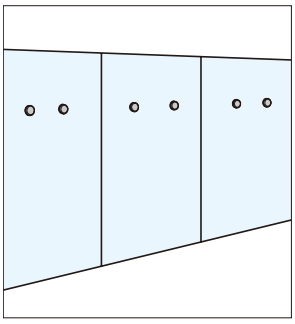


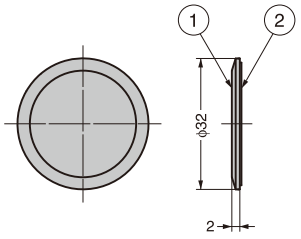
GM-02

- Designed for mounting on transparent glass to improve visibility and safety.
- Easily mountable on glass with double-side tape.
- Sleek satin finish.
- Two design options available.

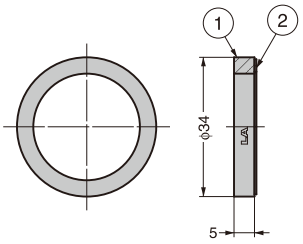
SUS

### Application Example






GM-01



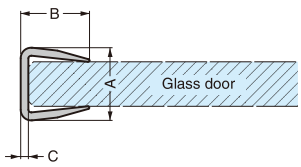

GM-02

| Item Code | Item Name | Box (pcs) | Carton (pcs) |
|---|---|---|---|
| 270-180-793 | GM-01 | 160 | 800 |
| 270-180-794 | GM-02 | 80 | 800 |

| No. | Part Name | Material | Finish |
|---|---|---|---|
| ① | Body | Stainless Steel (SUS303) | Satin |
| ② | Double-side tape | Acrylic foam | - |

# LAMP GLASS EDGE PROTECTOR GP

Latest Info




- Sealing materail for protecting the edge of glass door.
- One-touch installation.
- Highly transparent.

TEMPERED GLASS

### Remarks

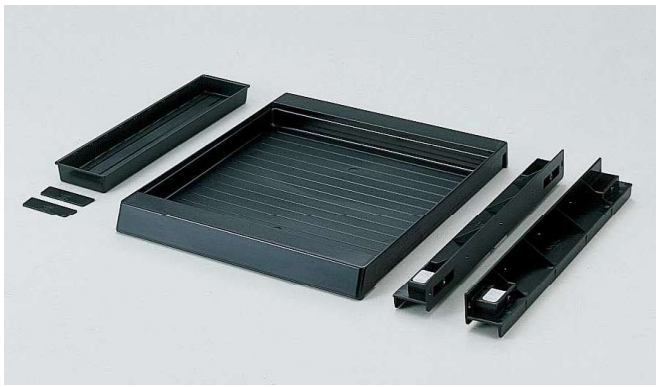
- Please choose according to the glass thickness.
- Sold at 3000 mm. Can be cut to a required length by customers.

| Item Code | Item Name | Material | Colour | A | B | C | Length | Glass Thickness | Weight (kg) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 270-021-586 | GP-06 | PC | Clear | 8.8 | 10 | 1.2 | 3000 | 6 | 104 | 35 | – |
| 270-021-587 | GP-08 | | | 11.5 | 12 | 1.4 | | 8 | 144 | 27 | – |
| 270-021-588 | GP-10 | | | 13.7 | 13 | 1.5 | | 10 | 240 | 25 | – |
| 270-021-589 | GP-12 | | | 16.3 | 14 | 1.7 | | 12 | 220 | 22 | – |
| 270-021-590 | GP-15 | | | 19.5 | 15 | 1.8 | | 15 | 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 TRAY UNIT TU-380

Latest Info



- With pen tray and two partitions.

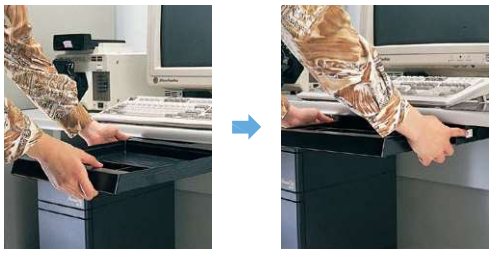
SCREW

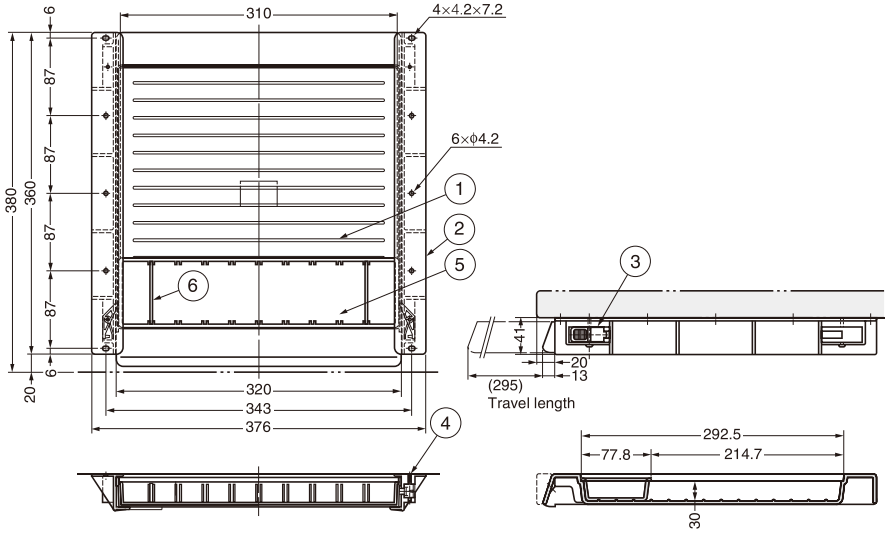
**Parts Included**
- Binding head tapping screw 4×49





**How to Install**






| No. | Part Name | Material | Colour | PCS |
|---|---|---|---|---|
| ① | Tray | ABS | Black | 1 pc |
| ② | Rail | ABS | Black | 2 pcs |
| ③ | Stopper | Polyacetal (POM) | Natural | 2 pcs |
| ④ | Stopper Pin | Steel | Black | 2 pcs |
| ⑤ | Pen Tray | High Impact Polystyrene | Black | 1 pc |
| ⑥ | Panel | High Impact Polystyrene | Black | 2 pcs |

| Item Code | Item Name | Weight | Box | Carton |
|---|---|---|---|---|
| 210-030-171 | TU-380 | 845 g | 1 set | 10 sets |

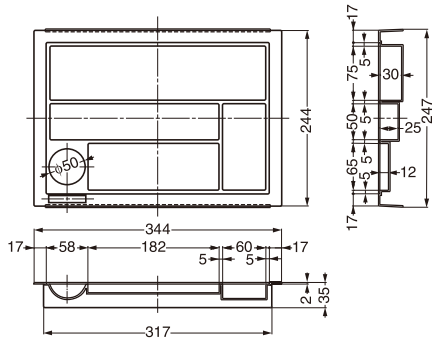
# LAMP PEN TRAY PT-1

Latest Info



**Application Example**






| Item Code | Item Name | Material | Colour | Weight | Carton |
|---|---|---|---|---|---|
| 210-030-130 | PT-1 | Plastic | Black | 310 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.

# LAMP. RATCHET HEIGHT ADJUSTER VA-RCT NEW

Latest Info



VA-RCT-200 (bottom step) VA-RCT-100 (bottom step) VA-RCT-100 (top step)

* The VA-RCT-200 of the picture is attached with the body and housing brackets.

- The ratchet mechanism allows for one-way motion.
- The height adjustment is available in increments of 4 mm.
- The ratchet unlocks when the height exceeds the top step.
- Can extend again from the middle position once the ratchet is released.

## Remarks

- Cannot be used in either horizontal or inclined directions.
- Use of multiple products in one device may cause malfunctions.
- Support device by hand when lowering height.
- To prevent unbalanced load, recommended to use in combination with linear guide rails.

## Parts Included

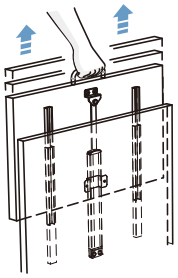
- Body Bracket

## Sold Separately

- Housing Bracket LOM-A-6
- Housing Bracket LOM-B-6

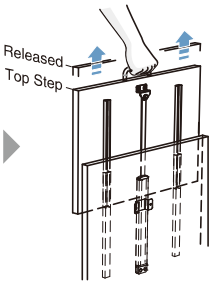
## Ratchet Operation

### 1. Extension



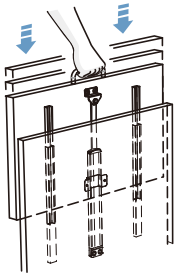
Lift up the fitting slowly. The ratchet provides click sounds for each step. (Ratchet interval: 4 mm)

### 2. Ratchet Release

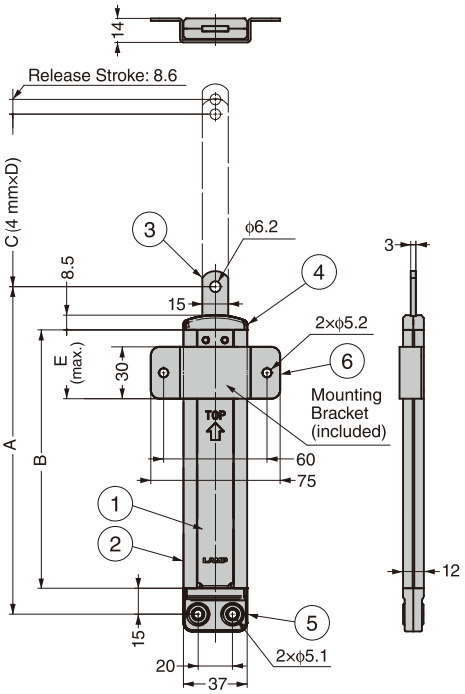



The ratchet lock will be released when it exceeds the top step.

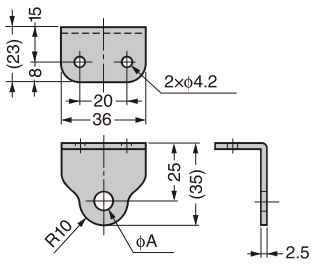
### 3. Lowering



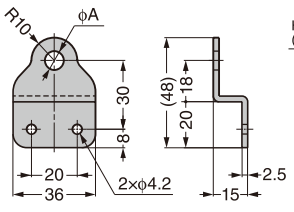
It can extend again in the middle position. (Not required to lower to the bottom step.)



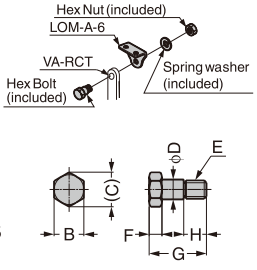

## Bracket




[LOM-A-6]




[LOM-B-6]




Hex Bolt (included with bracket)

| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Body | Stainless Steel (SUS304) | Plain |
| ② | Side Cover | ABS | - |
| ③ | Slider | Stainless Steel (SUS304) | Plain |
| ④ | Upper Cap | Polyacetal (POM) | - |
| ⑤ | Bottom Cap | | - |
| ⑥ | Bracket | Stainless Steel (SUS304) | Barrel Polished |

## Body

| Item Code | Item Name | Min. Height A | Stroke C | B | Ratchet Interval | Ratchet Steps D | E | Load Capacity N | Load Capacity kgf | Weight (g) | Box (pcs) | Carton (pcs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 180-045-683 | VA-RCT-100 | 190 | 100 | 150 | 4 | 25 | 50 | 294 | 30 | 280 | 5 | 20 |
| 180-045-684 | VA-RCT-200 | 290 | 200 | 250 | | 50 | 80 | | | 450 | 5 | 20 |

## Housing Bracket (Sold Separately)

| Item Code | Item Name | Material | Finish | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 180-109-302 | LOM-A-6 | Stainless Steel (SUS304) | Barrel Polished | 5.2 | 10 | 11.5 | 5.6 | M5 | 4 | 19 | 9 |
| 180-109-303 | LOM-B-6 | | | | | | | | | | |


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 ROTATING PLATE HTS Offset Load Supported NEW

Latest Info

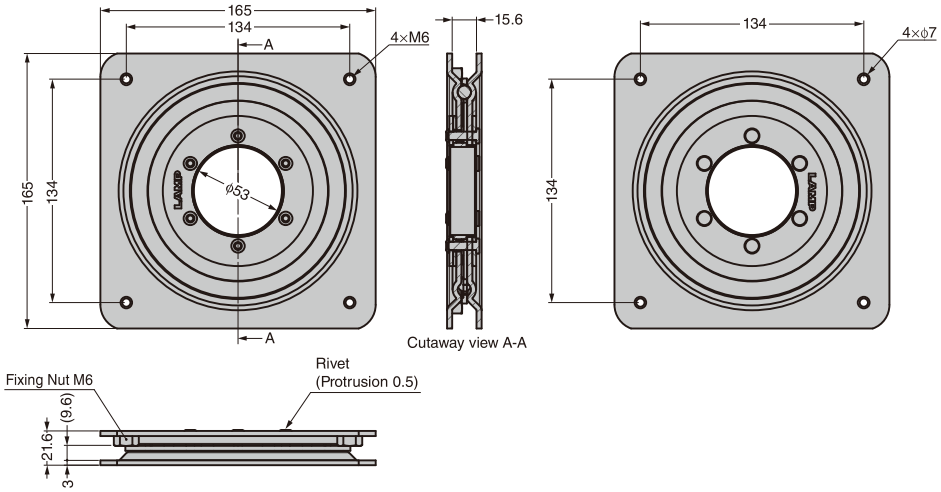


- Industrial rotating plate that withstands offset load.
- Rotates 360°, with a friction function.
- Centre hole for cable management.

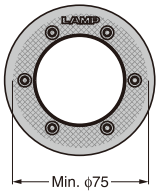
## Specifications
- Operating temperature: 0 - 40°C

## Applications
- Operating panels and LCDs in machine tools, food processing machinery, etc.

## Remarks
- Ensure that there is no contact between the mounting screws and the fixing nut.
- Ensure a minimum 1 mm clearance for rivet protrusions using a sheet metal cutout or similar (minimum hole diameter: ϕ75).




Clearance Dimensions




Minimum Height Clearance: 1 mm.



Lever-lock type under development (design subject to change).

| Item Code | Item Name | Specifications | Material | Finish | Vertical Load N | Vertical Load kgf | Box (pcs) |
|---|---|---|---|---|---|---|---|
| 170-055-287 | HTS-165 | Without Lever-Lock | Steel/Polyacetal (POM) | Chromate (Trivalent) | 1470 | 150 | 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.

# SWIVEL HF

Latest Info

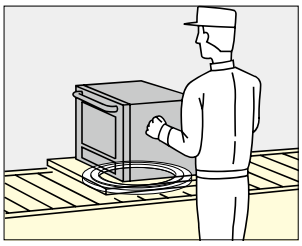


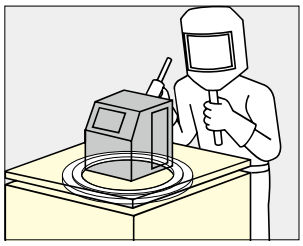
- For tables such as TV monitors and worktables.
- Rubber stoppers prevent from slipping.
- Top plate has holes to fix on table.

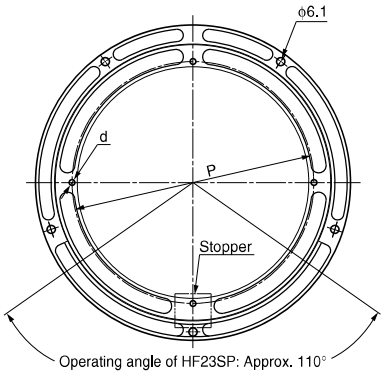
## Remarks

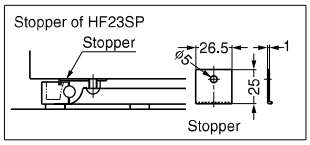
- Mounting hole pitch may vary. Please check with the actual item.

## Application Example

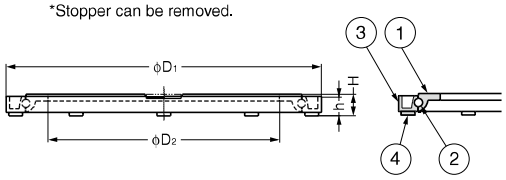







*Stopper can be removed.




| No. | Part Name | Material | Finish/Colour |
|---|---|---|---|
| ① | Top Plate | Aluminium Alloy | As below |
| ② | Balls | Steel | – |
| ③ | Base Plate | Aluminium Alloy | As below |
| ④ | Leg | Rubber | White |

| Item Code | Item Name | Stopper | Finish | $D_1$ | $D_2$ | P | H | h | d | Holes | Load Capacity | | Weight | Box |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 210-035-222 | HF23SP | With | Polished | 230 | 166 | 176 | 16 | 15 | ϕ4.8 | 4 | 392 N | 40 kgf | 0.37 kg | 40 pcs |
| 210-035-220 | HF30 | Without | Polished | 327 | 265 | 275.5 | 16 | 15 | ϕ4.8 | 6 | 588 N | 60 kgf | 0.55 kg | 20 pcs |
| 210-035-221 | ☆HF45 | Without | Polished | 441 | 380 | 392 | 22 | 16.5 | ϕ4.8, ϕ10 CSK | 6 | 980 N | 100 kgf | 1.60 kg | 10 pcs |
| 210-035-226 | ☆HF60 | Without | Silver | 600 | 520 | 538 | 24 | 18.5 | ϕ4.8, ϕ12 CSK | 4 | 1960 N | 200 kgf | 3.20 kg | 5 pcs |

☆Limited inventory, contact sales associate for details.


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.

# Technical Information

1364 | TEST METHODS
1366 | SURFACE TREATMENT
1367 | MATERIALS
1368 | DOOR WEIGHT TABLE

September 2024

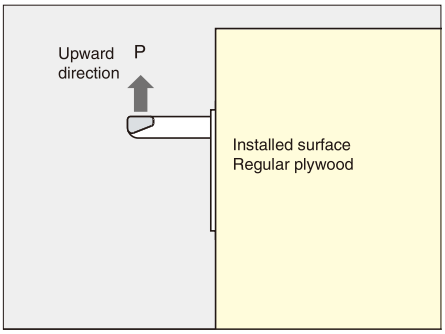
# TEST METHODS

## ■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.

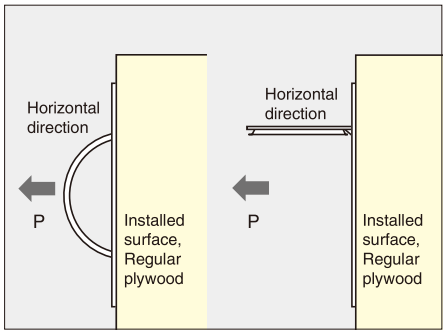
Product without TEST METHOD icon may not be based on these criteria in some cases.

### TEST METHOD 1 HANDLE LOAD CAPACITY TEST



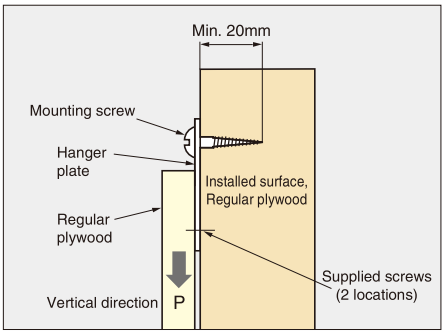

The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

### TEST METHOD 2 HANDLE, PULL, HOOK LOAD CAPACITY TEST



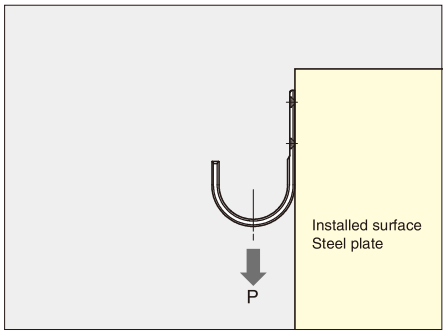

The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.
Product may fail or distort if the force is applied in a direction other than the frontal direction. Please do not use on application other than in the pull direction.

### TEST METHOD 3 HANGING-LOAD CAPACITY TEST



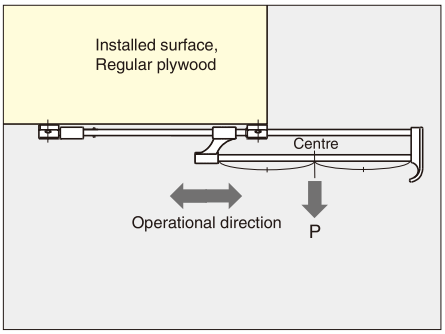

The hanging-load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure. This value will vary according to the diameter / length of the screw(s) used and strength of the installed surface.
Hanging load of 10 kgf, in case of using round head wood screw 3.8 x 25.

### TEST METHOD 4 HOOK LOAD CAPACITY TEST



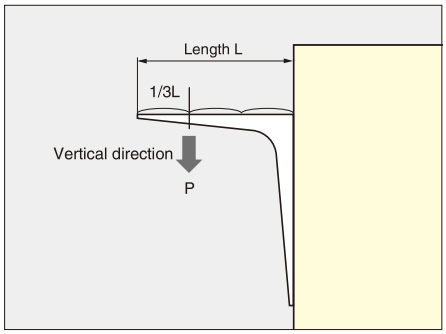

Under the conditions shown in the figure, a force (P) is gently applied to the centre of the hanging part in the vertical direction. The indicated load capacity value is about one-third of the limit load value (safety factor: 3). Therefore, this safety factor changes depending on the usage conditions. If you use it under adverse conditions, please be sure to check the actual product.

### TEST METHOD 5 MAXIMUM HANGING-LOAD TEST



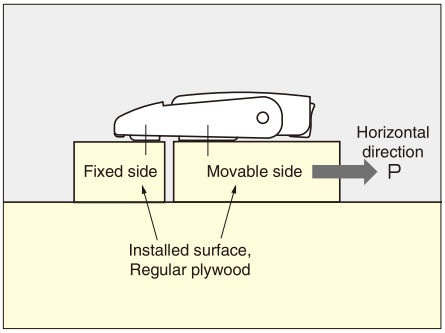

The maximum hanging-load capacity is measured when the force (P) is gently applied in the direction of the arrow and operated under the condition indicated by the figure. If the load is concentrated at the front tip of the hanger, the front tip may sag or the movement may become heavy.

### TEST METHOD 6 BRACKET LOAD CAPACITY TEST



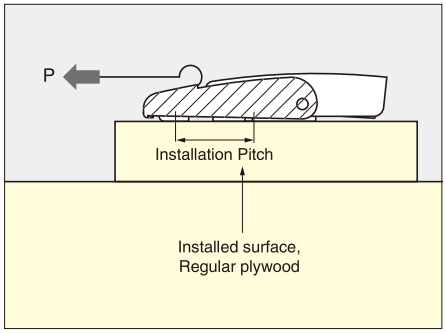

The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.
(This is based on the force (W) applied at the centre of the shelf board with its length 4/3 times longer than the shelf bracket or angle bracket.)

### TEST METHOD 7 FASTENER LOAD CAPACITY TEST



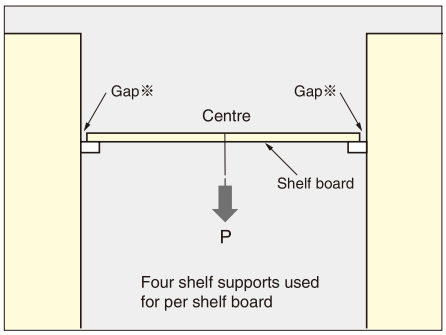

The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

### 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



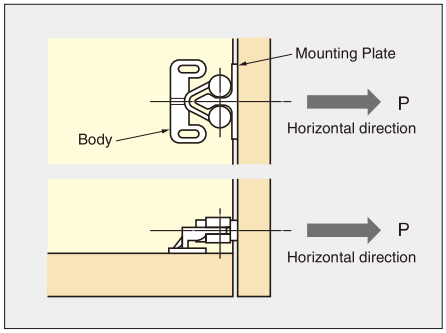

The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.
Follow the conditions below to prevent the shelf supports or shelf board from falling off.

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.

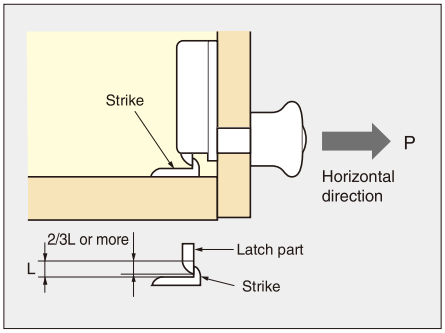
## TEST METHOD 10 CATCH FORCE TEST




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.

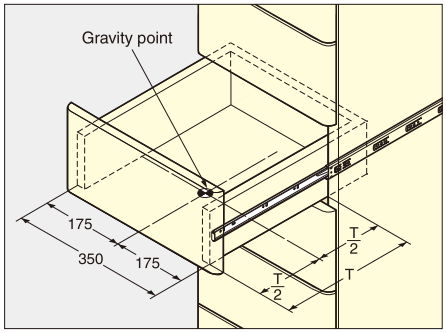
## TEST METHOD 11 RETAINING FORCE TEST




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).

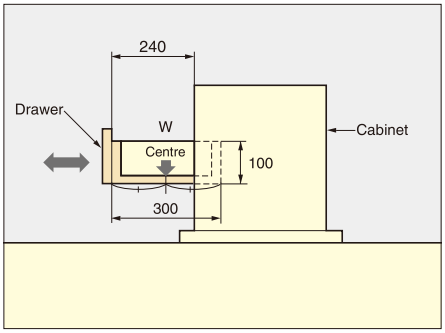
## TEST METHOD 12 DRAWER SLIDE LOAD CAPACITY TEST




Calculation of slide centre of gravity

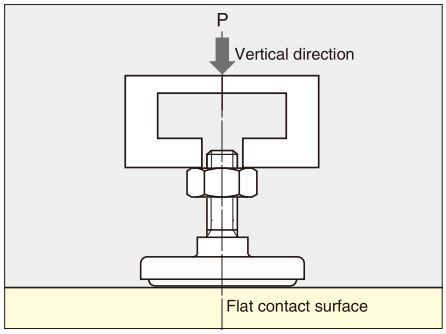
The load capacity is measured based on the condition:
- Continuous open-close: 50,000 cycles
- Speed: 10 cycles per minute
- Load is applied on the gravity point. The figure of load capacity includes drawer itself.
- Drawer width: 350mm

## TEST METHOD 13 DRAWER SLIDE LOAD CAPACITY TEST



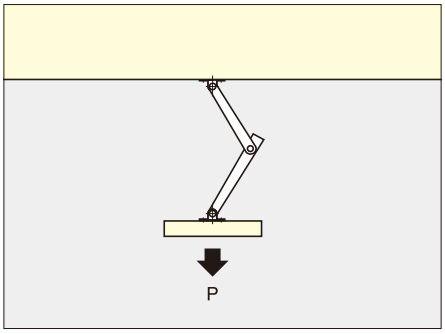

The load capacity is measured when the weight (W) is applied at the centre of the drawer under the condition indicated by the figure and the operation to pull out the drawer by 240mm is repeated. The gap between drawer and cabinet shall be 1 mm or less.

## TEST METHOD 14 LEVELLING GLIDE LOAD CAPACITY TEST



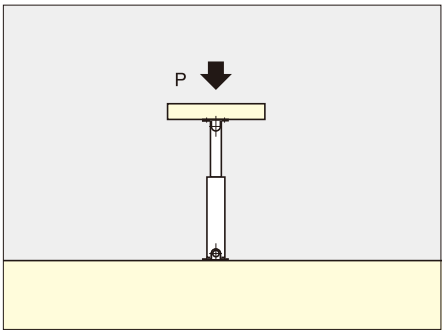

The load capacity is measured when the force (P) is applied in the direction of the arrow under the condition indicated in the figure.
Product may break or distort if the contact surface is not flat.

## 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



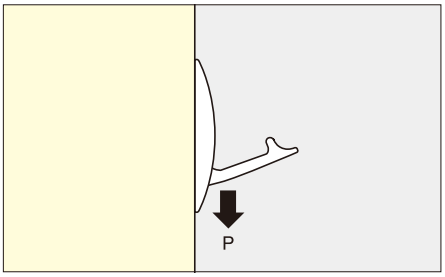

The compression load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

## 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

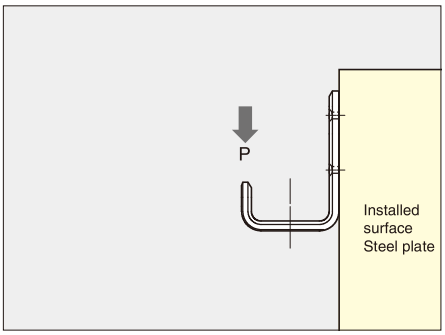



The load capacity is measured when the force (P) is gently applied in the direction of the arrow under the condition indicated by the figure.

Load capacity kgf = Ultimate Load ÷ 3

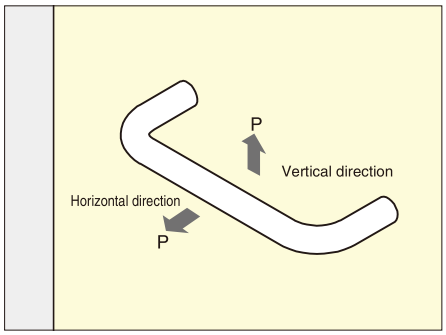
However, the safety factor will vary depending on the conditions of use.
When used under adverse conditions, please test the hook in intended application.

## 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 |

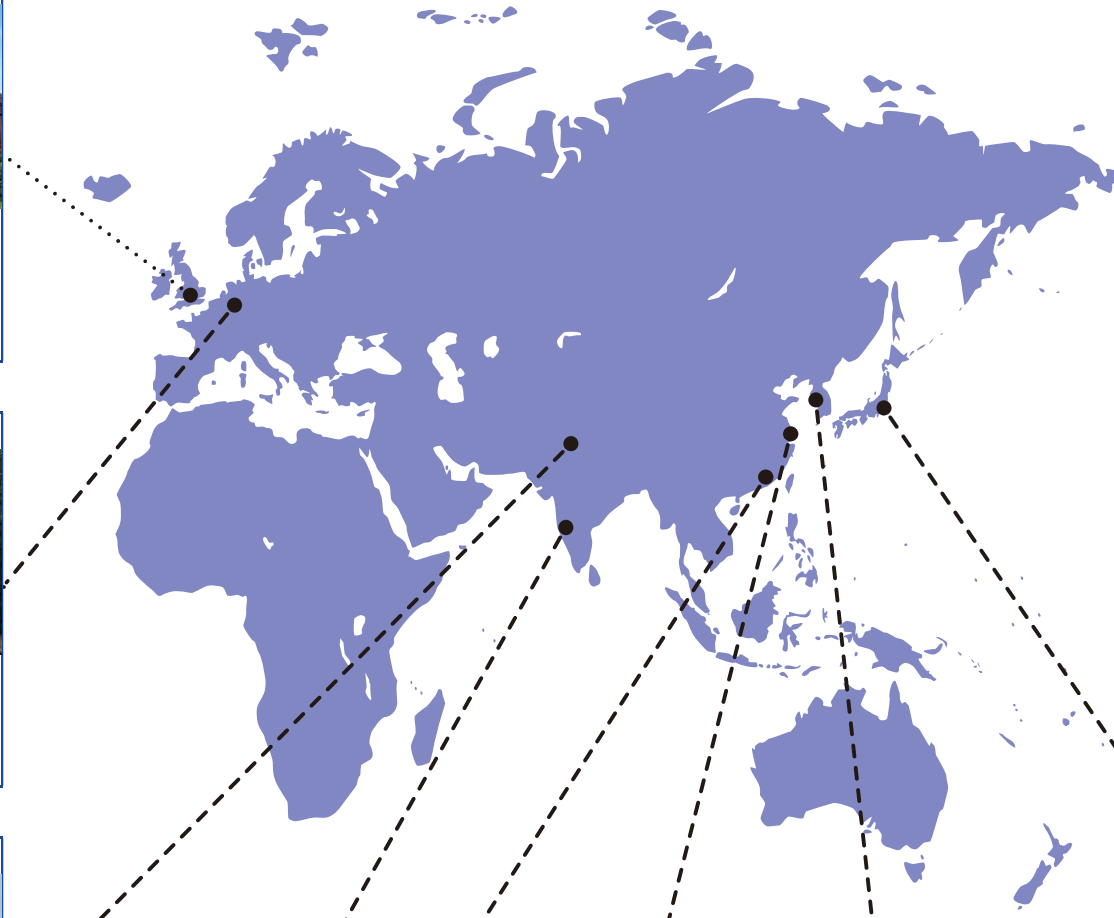
## Glass Door Weight (kg)

| 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 |

# About Us

September 2024

# Global Network



## Reading, UK



**SUGATSUNE KOGYO(UK)LIMITED**
Office / Showroom
Unit 635 Wharfedale Road Winnersh Triangle
Wokingham RG41 5TP UK
Tel : +44-1189-272-955
Fax : +44-1189-272-871

## Dusseldorf, Germany




**SUGATSUNE EUROPE GmbH**
Office / Showroom
Heerdter Lohweg 87-89
D-40549 Düsseldorf Germany
Tel : +49-211-53812-900
Fax : +49-211-53812-901

## Delhi, India



**SUGATSUNE KOGYO INDIA PRIVATE LIMITED**
Delhi Office / Display Studio
Sugatsune Delhi Display Studio(India)
FIEE Complex,A-36 First Floor,Okhla Phase II ,New Delhi,Delhi 110020,INDIA
Tel : +91-9867299597,
+91-11-45093636
E-mail : sales@sugatsune.in

## Mumbai, India



**SUGATSUNE KOGYO INDIA PRIVATE LIMITED**
Mumbai Office / Showroom
No.G-002 & B-02, Ground Floor,
KANAKIA ATRIUM-2 Next to Courtyard Marriott Hotel, Andheri Kurla Road,
Andheri East, Mumbai-400093,
Maharashtra, INDIA
Tel : +91-9867299597
E-mail : sales@sugatsune.in

## Shanghai, China



**SUGATSUNE SHANGHAI CO.,LTD.**
Shanghai Office / Showroom
Building No.3, No. 100 Hu lan
West Road, Baoshan District, Shanghai
200443, China
Tel : +86-21-3632-1858
Fax : +86-21-3632-1868

## Guangzhou, China



**SUGATSUNE SHANGHAI CO.,LTD.**
Guangzhou Office
15th Floor, KeyThink Center,
No. 278 Xingtai Road.
Panyu District, Guangzhou
511400, China
Tel : +86-20-6639-3554
Fax : +86-20-6230-9772

## Incheon, Korea



**SUGATSUNE KOREA CO., LTD.**
Incheon Office
407 Tower2, 495 Parang-ro, Seo-gu,
Incheon, KOREA 22770
Tel : +82-32-220-0603
Fax : +82-32-220-0605



Los Angeles, USA



**SUGATSUNE AMERICA,INC.**
Main Office
18101 Savarona Way,Carson,
CA 90746 U.S.A.
Tel : +1-310-329-6373
Fax : +1-310-329-0819

Montreal, Canada



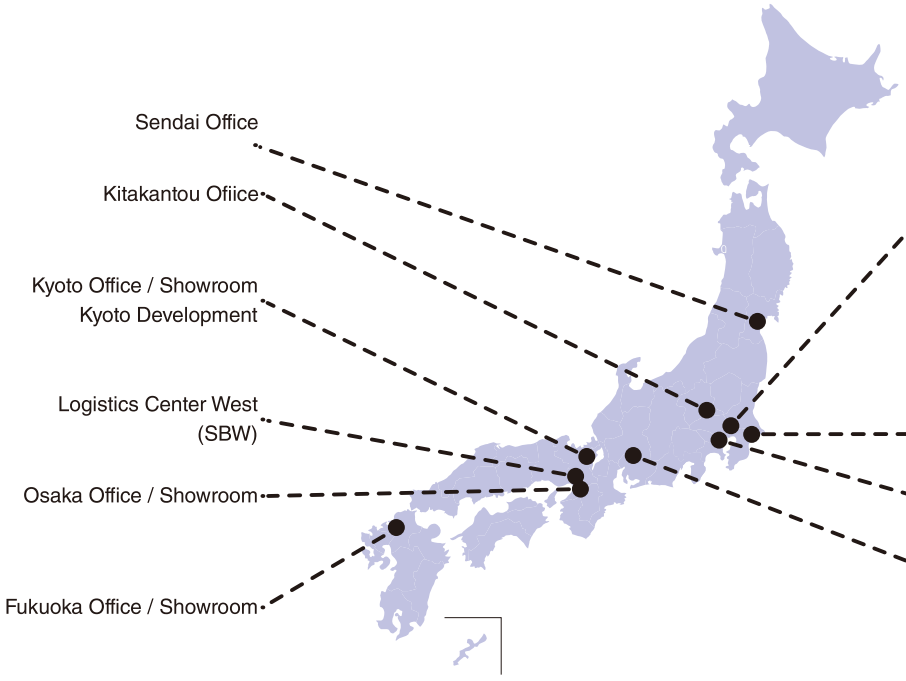
**SUGATSUNE CANADA,INC.**
3775 Boulevard du
Tricentenaire Montreal,
Quebec H1B-5W3 Canada
Tel : +1-514-312-5267
Fax : +1-514-399-0538

Chicago, USA



**SUGATSUNE AMERICA,INC.Midwest Distribution Center**
1790 W Cortland Court, Addison,
IL 60101 U.S.A.
Tel : +1-630-317-7072
Fax : +1-630-519-4107

## Japan



Sendai Office
Kitakantou Ofiice
Kyoto Office / Showroom
Kyoto Development
Logistics Center West
(SBW)
Osaka Office / Showroom
Fukuoka Office / Showroom

Tokyo Head Office / Showroom
Tokyo Development

Export Department
1-8-11 Higashikanda, Chiyoda-ku
Tokyo 101-8633,Japan
Tel : +81-3-3866-2260
Fax : +81-3-3866-4447
E-mail : export@sugatsune.co.jp

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.<br>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.<br>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.<br>A technical centre is built at the site of Chiba Factory.<br>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.<br>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.<br>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$^2$)<br>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.<br>Fukuoka Sales Office is moved and a showroom is opened.<br>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.<br>A new logistics centre (SBW) is established in Osaka. |
| 2016 | Sugatsune Europe GmbH is established in Germany.<br>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.

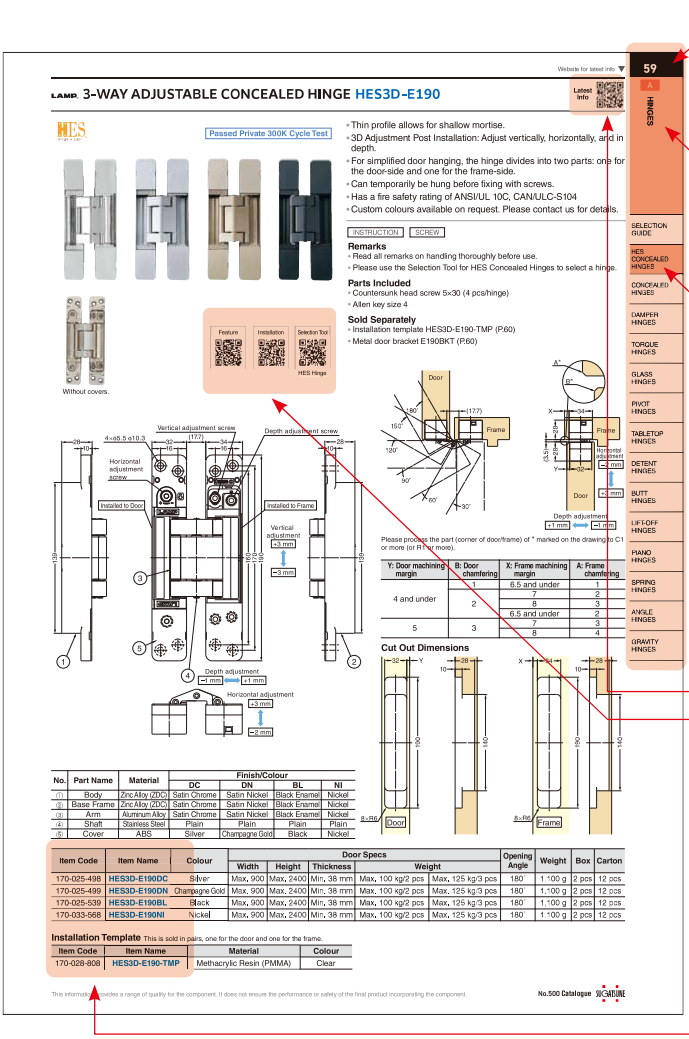
Sugatsune Global

Explore our product applications and stay updated on Instagram and Facebook.

Sugatsune Global

Sugatsune Global

# Description of Main Text

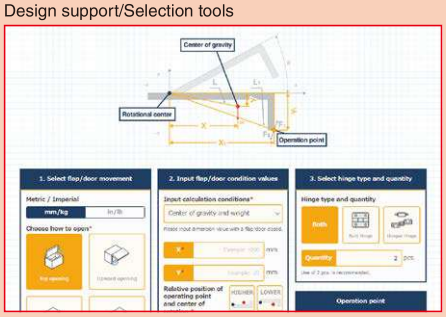



Viewable from the QR code.

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 |

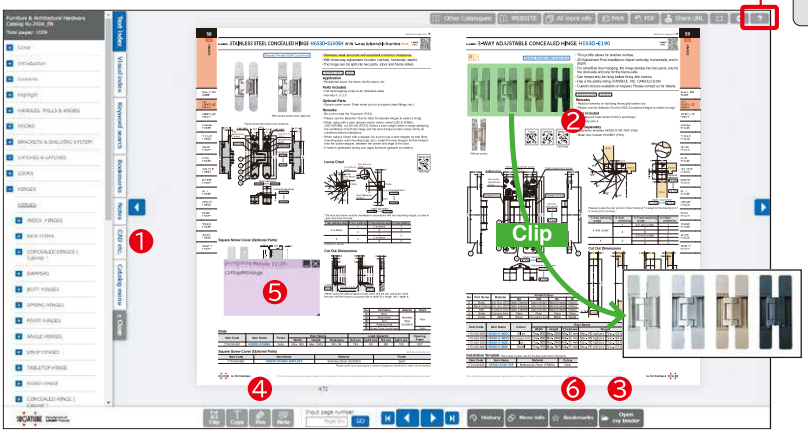
• Please specify the Item Name. and quantity when ordering.

## 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