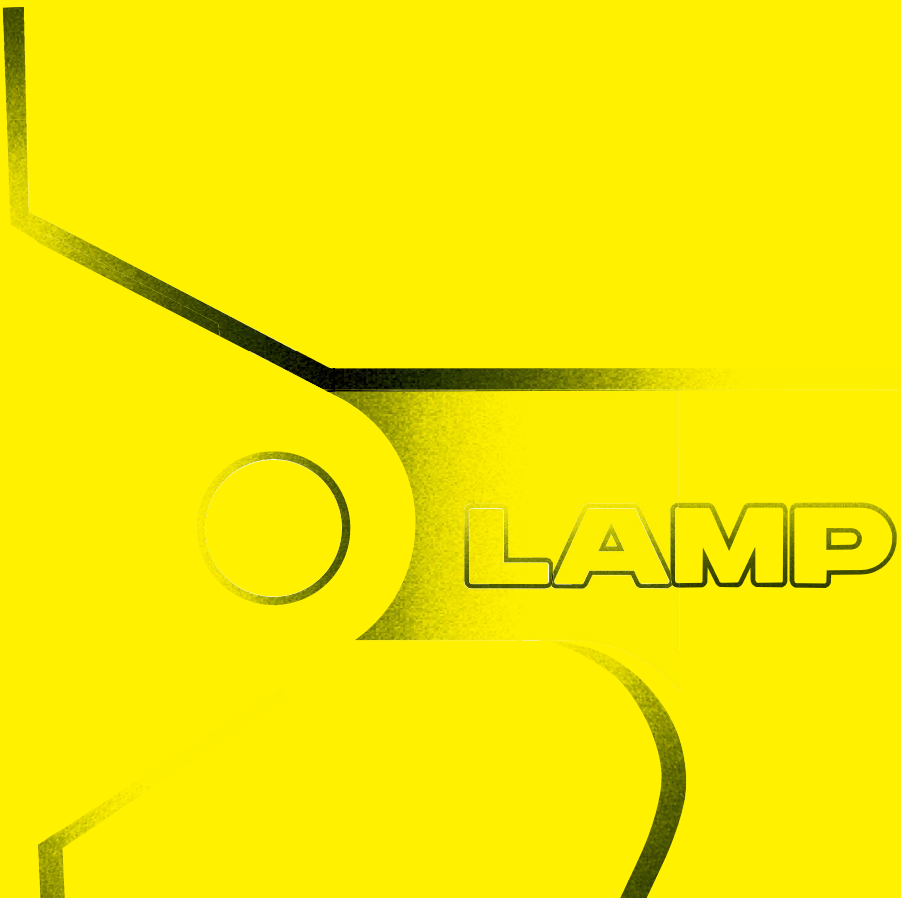
SUGATSUNE

Industrial Component Hardware



June 2022

No.400

INDEX

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CATCHES, LATCHES & FASTENERS
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LOCKS
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Motion Design Tec

LAMP®

HOOKS & BRACKETS

Hooks & brackets are a kind of hardware used for suspending or hanging objects.
Sugatsune has a long history of manufacturing hooks & brackets, setting industrial standards with basic design and highly-durable stainless steel material.
We offer a wide range of hooks & brackets, from large ones used for hanging thick cables and chains, to those suitable for various installation places.

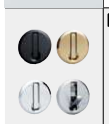
SUGATSUNE

June 2022

INDEX by Type

Recessed Hooks

●Hook automatically closes and retracts into body when not used.

Product Name	Material	Load Capacity
 P.711 Resin Folding Hook NF-47D With Soft Closing Function	Polycarbonate (PC)	75 N (7.6 kgf)
 P.709 Recessed Hook NF-45D	Aluminium Alloy (ADC)	93 N (9.5 kgf) (Tip) 500 N (51 kgf) (Base)
 P.710 Recessed Hook NF-60	Aluminium Alloy (ADC)	196 N (20 kgf)
 P.712 Recessed Hook NF-R	Zinc Alloy (ZDC)	196 N (20 kgf)
 P.713 Recessed Hook NF-K	Zinc Alloy (ZDC)	196 N (20 kgf)
 P.709 Recessed Hook NF-60DF Soft Close/Surface Mount on Sheet Metal	Aluminium Alloy (ADC)	294 N (30 kgf)
 P.710 Recessed Hook NF-60D With Soft Closing Mechanism	Aluminium Alloy (ADC)	294 N (30 kgf)
 P.714 Bracket for Sheet Metal NF-45DB	Steel (SPCC)	Bracket for NF-45D
 P.714 Bracket for Sheet Metal NF-50D	Steel (SPCC)	Bracket for NF-60D, NF-R52/77, NF-K52/77
 P.714 Bracket for Sheet Metal NF-50	Steel (SPCC)	Bracket for NF-60, NF-R64, NF-K64
 P.714 Bracket for Recessed Hook NF-47DB	Steel (SPCC)	Bracket for NF-47D

Latch Hooks

●Hook is spring loaded to retract, preventing hooked items from falling off.

Product Name	Material	Load Capacity
 P.715 Counter Hook HK-CH35	Aluminium Alloy (ADC)	98 N (10 kgf)
 P.719 Latch Hook WH	SUS	147 N (15 kgf)
 P.717 Latch Hook EN-R80	SUS316	196 N (20 kgf)
 P.717 Latch Hook EN-R80-K Suitable for Padlock	SUS316	196 N (20 kgf)
 P.716 Latch Hook EN-K	SUS316	196 N (20 kgf) 588 N (60 kgf)
 P.716 Latch Hook EN-E107	SUS316	392 N (40 kgf)
 P.718 Large Latch Hook JN-T100 With Friction	SUS	392 N (40 kgf)
 P.718 Latch Hook EN-R100F With Friction	SUS316	588 N (60 kgf)

Swing Hooks

●Hooks are swivellable, and types that swinging is prevented by friction (resistance function) also available.

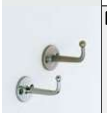
Product Name	Friction	Material	Load Capacity
 P.725 Rotating Hook RF-50S	–	SUS	40 N (4 kgf)/hook
 P.724 Swing Hook UC	–	SUS	55 N (5.6 kgf) 66 N (6.7 kgf)
 P.721 Butterfly Hook TZ-360	–	SUS	60 N (6 kgf) ※ Flat Surface Mount
 P.725 Rotating Swing Hook RF-U50	–	SUS	60 N (6 kgf)/hook
 P.724 Rotating Swing Hook UJ	–	SUS	66 N (7 kgf) 87 N (9 kgf)
 P.722 Stainless Steel Rotating Ball Hook (w/friction) TK-W-45F	○	SUS	80 N (8.2 kgf) ※ Load capacity values are for one side only.
 P.721 Swing Hook TK, TKF	○	SUS	90 N (9 kgf) 118 N (12 kgf)
 P.723 Butterfly Hook DZ-270	–	SUS	100 N (10 kgf) ※ Flat Surface Vertical Mount
 P.720 Stainless Steel Friction Type Large Hook with Spherical Tip HK-TS	○	SUS	100 N (10.2 kgf) 260 N (26.5 kgf)
 P.720 Stainless Steel Friction Type Large Hook with Spherical Tip HK-TT	○	SUS	100 N (10.2 kgf) 260 N (26.5 kgf) ※ Load capacity values are for one side only.
 P.723 Swing Hook RF-D35	–	SUS	104 N (10.6 kgf) ※ Ceiling Mount
 P.719 Swing Hook (w/friction) JF-T	○	SUS	170 N (17 kgf) 392 N (40 kgf)

Product Name	Friction	Material	Load Capacity
 P.724 Swing Hook XL-JSF40TT High Load Capacity	–	SUS	490 N (50 kgf)
 P.725 Heavy Duty Folding Pad Eye EY-R	○	SUS316	4900 N (500 kgf) 7840 N (800 kgf) 11760 N (1200 kgf)

Small Hooks

Product Name	Material	Load Capacity
 P.738 Magnetic Hook MJ-30	Aluminium Alloy ABS	9.8 N (1 kgf)
 P.736 Magnetic Hook (Mini Nordic Rubber Series) PXB-GN05M-101	Zinc Alloy (ZDC) Silicone Rubber	40 N (4.1 kgf) ※ Screw mount
 P.728 Hanger Bracket CK	SUS	14.7 N (1.5 kgf)
 P.738 Magnetic Hook MJ-45	ABS	19.6 N (2 kgf)
 P.736 Hook (Mini Nordic Rubber Series) PXB-GN05-101	Zinc Alloy (ZDC) Silicone Rubber	10 N (1.1 kgf)
 P.728 Double Hook RI-074	SUS	50 N (5 kgf)
 P.727 Hook 2H	SUS	60 N (6 kgf) 98 N (10 kgf)
 P.737 Plastic Hook HK-CM40	Polyamide(PA)	78 N (8 kgf)
 P.735 Hook (Mini Nordic Rubber Series) PXB-GN05-111	Stainless Steel Silicon Rubber	80 N (8.1 kgf)

Small Hooks

Product Name	Material	Load Capacity
 P.726 Hook DS-H	SUS	98 N (10 kgf)
 P.730 Hook HK-FH	Zinc Alloy (ZDC)	98 N (10 kgf) 147 N (15 kgf)
 P.727 Hook HJU	SUS	98 N (10 kgf)
 P.733 Hook FC	SUS	98 N (10 kgf) 117.6 N (12 kgf) 222 N (23 kgf) 294 N (30 kgf)
 P.731 Stainless Steel Hook JF2B-40M	SUS	100 N (10.2 kgf)
 P.734 Stainless Steel Hook DFHK-SQ30	SUS	100 N (10.2 kgf)
 P.735 Double Hook (Rubber Ranger Series) PXB-GR05-211	Stainless Steel Silicon Rubber	100 N (10.2 kgf)
 P.735 Hook (Rubber Ranger Series) PXB-GR05-111	Stainless Steel Silicon Rubber	100 N (10.2 kgf)
 P.737 Rubber Hook Twin Type PXB-GR05-212	Stainless Steel Silicon Rubber	100 N (10.2 kgf) ※The load capacity is intended for each arm.
 P.728 Double Hook RB-102	SUS	130 N (13 kgf)
 P.727 Hook HJ	SUS	140 N (14 kgf)
 P.726 Hook XL-HJT	SUS	150 N (15 kgf) 200 N (20 kgf)

Product Name	Material	Load Capacity
 P.726 Hook HJT	SUS	150 N (15 kgf) 200 N (20 kgf)
 P.731 Stainless Steel Hook HK-LB	SUS316	150 N (15.3 kgf)
 P.732 Stainless Steel Hook HK-DF-G	SUS	150 N (15.2 kgf)
 P.732 Stainless Steel Hook HK-DF	SUS	150 N (15.2 kgf)
 P.739 Hook 4HJU-40M	SUS	150 N (15.3 kgf)
 P.729 Hook TA3	SUS	180 N (18 kgf)
 P.730 Hook HK-RH	SUS	196 N (20 kgf) 245 N (25 kgf)
 P.726 Hook EU	SUS316	196 N (20 kgf) 294 N (30 kgf)
 P.730 Hook EW	SUS	200 N (20 kgf)
 P.739 Hook 5HJU-60M	SUS	200 N (20.4 kgf)
 P.729 Hook EP	SUS	240 N (24 kgf)
 P.729 Hook EL	SUS	240 N (24 kgf)

Small Hooks

Product Name	Material	Load Capacity
 P.734 Stainless Steel Hook DFHK-RWS60	SUS	250 N (25.5 kgf)
 P.734 Stainless Steel Hook DFHK-RWD60	SUS	250 N (25.5 kgf) ※ Load capacity is the total for two hooks.
 P.734 Stainless Steel Top Mount Hook DFHK-RWT60	SUS	250 N (25.5 kgf) ※ Flat Horizontal Mounting
 P.729 Hook KB-H	SUS	280 N (29 kgf) 340 N (35 kgf)
 P.733 Hook KB-F-70	SUS	–
 P.733 Hook KB-F-75	SUS	–

Large Hooks

Product Name	Material	Load Capacity
 P.742 Large Utility Hook JF45M, JF70M, JF110M	SUS	98 N (10 kgf) 150 N (15 kgf)
 P.744 Large Utility Hook JFT180M, JFT260M For Ceiling Mount	SUS	98 N (10 kgf) 147 N (15 kgf)
 P.745 Large Utility Hook JF1B	SUS	100 N (10.2 kgf)
 P.745 Large Utility Hook JF2B-55M	SUS	100 N (10.2 kgf)
 P.741 Large Utility Hook XL-CUJ	SUS	138 N (14 kgf) 200 N (20 kgf)

Product Name	Material	Load Capacity
 P.741 Large Utility Hook XL-CUF	SUS	147 N (15 kgf) 314 N (32 kgf)
 P.746 Stainless Steel Big Hook DFHK-BJ	SUS	150 N (15.3 kgf) 200 N (20.4 kgf)
 P.746 Stainless Steel Big Hook DFHK-BJL Long Type	SUS	150 N (15.3 kgf) 200 N (20.4 kgf)
 P.742 Large Utility Hook JF50M, JF80M, JF120M	SUS	150 N (15 kgf) 196 N (20 kgf) 216 N (22 kgf)
 P.738 Large Utility Hook 4H	SUS	170 N (17 kgf) 260 N (27 kgf) 290 N (30 kgf)
 P.743 Large Aluminium Hook HK-AJ100	Aluminium	200 N (20.4 kgf)
 P.740 Large Utility Hook 5H	SUS	330 N (34 kgf) 350 N (36 kgf) 370 N (38 kgf)
 P.740 Large Utility Hook XL-SF	SUS	360 N (39 kgf)
 P.744 Large Utility Hook XL-SB Large Hat Hook	SUS	380 N (39 kgf) ※ Bottom Hook
 P.743 Giant Aluminium Hook HK-AJ180	Aluminium Alloy	1000 N (102 kgf)

Angle Brackets, Brackets

P.748~

Angle Brackets, Brackets


Angle Bracket SV


Angle Bracket XL-SA01


Folding Bracket BOS

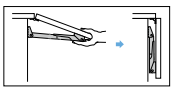

Bracket BT, BTK


Angle Bracket SSA

Product Name	Support Part Depth (mm)	Material	Load Capacity N/pc	Load Capacity kgf/pc	Page
	~100 ~200 ~300 ~400 ~500				
Angle Bracket SSA	25mm	SUS	1470N	150kgf	P.760
Angle Bracket SU	30~60mm	SUS	39~59N	4~6kgf	P.760
Angle Bracket SV	40~80mm	SUS	78.4~137.2N	8~14kgf	P.758
Angle Bracket SU-B	50~80mm	SUS	98~235N	10~24kgf	P.759
Angle Bracket SU-A	70~180mm	SUS	88~235N	9~24kgf	P.759
Angle Bracket XL-SA01	120~240mm	SUS	118~226N	12~23kgf	P.758
Folding Bracket BOS	181~240mm	SUS	325~392N	33~40kgf	P.756
Folding Bracket EB-DA Built-in Damper	305.5mm	SUS	495N	50kgf	P.751
Folding Bracket EB-F Multi Angle Locking	305.5mm	SUS	495N	50kgf	P.752
Bracket BTK-UB	199~318mm	Steel	117.6~245N	12~25kgf	P.749
Folding Bracket EB	199.5~317mm	SUS	1471~1961N	150~200kgf	P.750
Folding Bracket BTO	241~320mm	Steel, SUS	200N	20.4kgf	P.756
Bracket BT, BTK	69~400mm	Steel, SUS	147~808.5N	15~82.5kgf	P.748

Spring Loaded Folding Brackets, Folding Brackets

Product Name	Material	Load Capacity N/pc	Load Capacity kgf/pc	Page
Spring Loaded Folding Bracket GTS-300	SUS	58.8N /2pcs	6kgf /2pcs	P.757
Folding Bracket 388	Aluminium Alloy	250~360N	25~36kgf	P.754
Folding Bracket 388-D	Aluminium Alloy	309~360N	31~36kgf	P.755



Shelf Standards & Shelf Supports

P.762~

Sugatsune's shelf standards and shelf supports with the widest range of types in Japan. ※ Please select from the product list of P.762 and P.763 according to the load capacity. ※ According to our investigation.

SPHL Shelf Standard Series For Heavy Duty


Heavy duty shelf standard with 1.2 mm thickness.

SUS P.764

SPE Shelf Standard Series


Thin shelf standard of 3 mm thickness.

SUS P.766

SPN Shelf Standard Series


Only 8 mm width with large load capacity.

SUS P.767

SPW Shelf Standard Series


Mounting holes for shelf support invisible from the front.

SUS P.768

SPH Shelf Standard Series


Not apt to deform due to load.

SUS P.769~

SP, SPS Shelf Standard Series


Standard type with rich varieties.

SUS P.771~

SM Shelf Standard Series With Blind


With blind to cover mounting hole for shelf support.

SUS P.774

AP Aluminium Shelf Support Series


Easy to cut to desired length.

P.775~

Plenty of optional parts also available.


Angle Adjustable Shelf


Support Bracket for Shelf Standard

RECESSED HOOK NF-45D With Soft-close Mechanism



- Self-retracting hook with soft-close mechanism.
- The hook tip is designed for easy opening.
- Becomes flat when retracted.
- The edges are gently rounded for safe use.

Video Link

[Applications]
- Cabinet, trains

[Sold Separately]
- Hook bracket for sheet metal NF-45DB

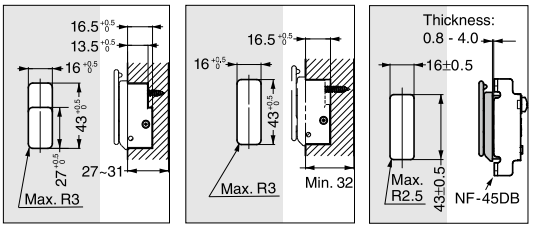
[Recommended Screw]
- 27 - 31 mm thick wood: cross-recessed countersunk tapping screw 4 × 25
- 32 mm or thicker wood: cross-recessed countersunk tapping screw 4 × 30

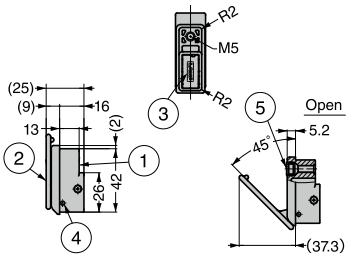
[Retractable]



[Cut Out Dimensions]

- Wood (27 - 31 mm thick)
- Wood (31 mm or thicker)
- Sheet metal





No.	Part Name	Material	Finish/Colour
①	Body	Aluminium Alloy (ADC)	Black
②	Arm		Gray / Black / Silver / White
③			
④	Cover	POM	Black
⑤	Knurling Pin	Stainless Steel (SUS304)	Plain
⑥	Spring		
⑦	Cushion Rubber	Chloroprene Rubber (CR)	Black

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity of the Tip		Load Capacity of the Base		Weight (g)	Box (pcs)	Carton (pcs)
					N	kgf	N	kgf			
G	3D	110-044-460	NF-45D-GR	Grey	93	9.5	500	51	32	10	200
G	3D	110-044-461	NF-45D-BL	Black						10	200
G	3D	110-044-462	NF-45D-SSL	Silver						10	200
G	3D	110-046-695	NF-45D-WT	White						10	200

RECESSED HOOK NF-60DF With Soft Close Mechanism / Surface Mount on Sheet Metal

TEST METHOD 18



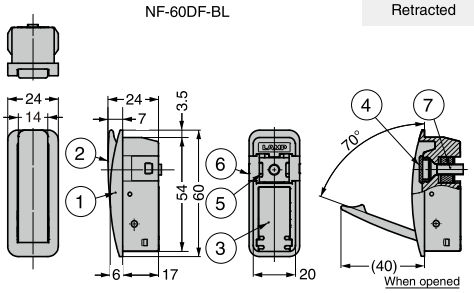
NF-60DF-BL



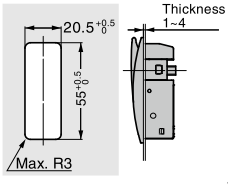
- Easy installation and removal. Surface mount type on sheet metal.
- Arm automatically and slowly closes when hooked items are removed.
- Handhold at hook tip allows for easy opening.
- Little projection when hook is retracted.

[Applications]
- Cabinet, vehicle, etc.

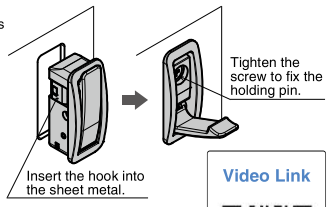
[Remarks]
- Please take off the cushion rubber when tighten the screw and put it on again when finished.
- Please do not tighten the screw too much (recommended fastening torque: 3N·m).



[Cut Out Dimensions]
Sheet Metal



[Installation]



Video Link

No.	Part Name	Material	Finish / Colour
①	Body	Aluminium Alloy (ADC)	Black, Metallic Silver
②	Arm		
③	Cover	POM	Dark Grey
④	Cushion Rubber	CR	Black, Metallic Silver
⑤	Nut	ZDC	Chromate
⑥	Holding Pin		
⑦	Screw	Stainless Steel (SUS304)	Plain

[Body]

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	110-037-738	NF-60DF-BL	Black	294	30	54	10	200
–	3D	110-037-740	NF-60DF-MSL	Metallic Silver				10	200

RECESSED HOOK NF-60D With Soft Closing Mechanism

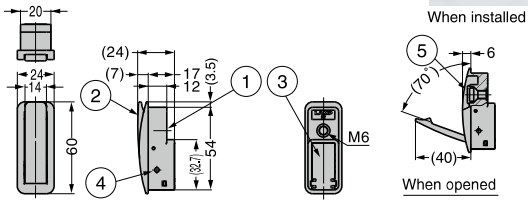
TEST METHOD 18



NF-60D-BL NF-60D-GR NF-60D-SL NF-60D-MSL



When installed



When opened

- Arm automatically and slowly closes when hooked items removed.
- Handhold at hook tip allows for easy opening.
- Little projection when hook retracted.
- Possible to install to sheet metal by using bracket NF-50D 1.
- Special colours can be made to order. For further details, please contact local representatives.

[Applications]
- Cabinet, vehicle, etc.

[Remarks]
- Please take off the cushion rubber when installing on a wooden panel.

[Sold Separately]
- Bracket NF-50D 1

[Recommended Screws]

For wooden board
- Thickness 25~29mm : Countersunk head tapping screw 5×20
- Thickness min 30mm : Countersunk head tapping screw 5×25

Video Link

Video Link

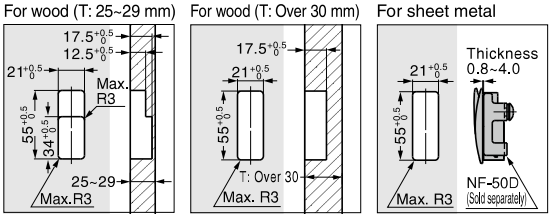
No.	Part Name	Material	Finish / Colour
①	Body	Aluminium Alloy (ADC)	Black, Dark Grey, Silver, Metallic Silver Enamel Finish
②	Arm		
③	Cover	POM	Dark Grey
④	Knurled Pin	Stainless Steel (SUS304)	Plain
–	Spring		
⑤	Cushion Rubber	CR	Black

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-044-237	NF-60D-BL	Black	294	30	49	10	200
G	3D	110-022-191	NF-60D-GR	Dark Grey				10	200
G	3D	110-024-598	NF-60D-SL	Silver				10	200
G	3D	110-027-560	NF-60D-MSL	Metallic Silver				10	200

Refer to 1 : P.714

[Cut Out Dimensions]

For wood (T: 25~29 mm) For wood (T: Over 30 mm) For sheet metal



RECESSED HOOK NF-60

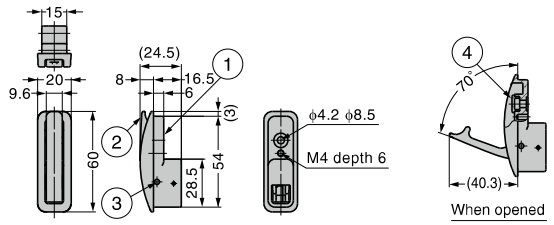
TEST METHOD 18



When closed



When opened



When opened

- Hook automatically closes and retracts into body when hooked items removed.
- Handhold at hook tip allows for easy opening.
- Little projection when hook retracted.
- Possible to install to sheet metal by using bracket NF-50 1.
- Special colours can be made to order. For further details, please contact local representatives.

[Applications]
- Cabinet, vehicle, etc.

[Remarks]
- Please take off the cushion rubber when installing on a wooden panel.

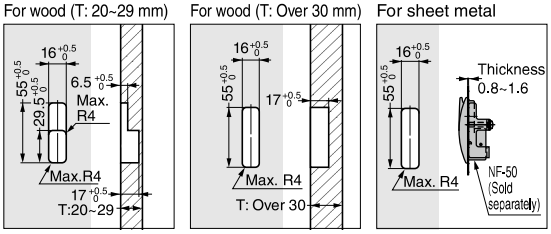
[Sold Separately]
- Bracket NF-50 1

[Recommended Screws]
- Pan head tapping screw 4

Video Link

[Cut Out Dimensions]

For wood (T: 20~29 mm) For wood (T: Over 30 mm) For sheet metal



No.	Part Name	Material	Finish / Colour
①	Body	Aluminium Alloy (ADC)	Dark Grey
②	Arm		Enamel Finish
③	Knurled Pin	Stainless Steel (SUS304)	Plain
–	Spring		
④	Cushion Rubber	CR	Black

[Body]

RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-067	NF-60	196	20	31	10	200

Refer to 1 : P.714

RESIN FOLDING HOOK (W/SOFT CLOSING FUNCTION) NF-47D

TEST METHOD 18

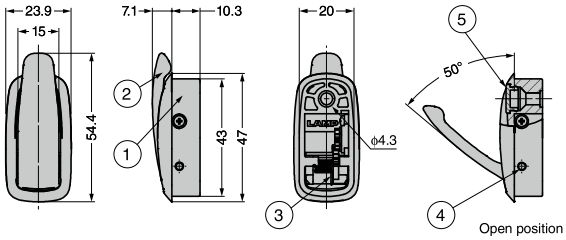


- Soft closing function automatically closes the hook gradually after items on hook are removed.
- The tip of the hook has a grip for easy opening.
- Streamlined design with minimum protrusion when the hook is closed.
- Made with flame-retardant grade (UL94V-0 compliant) polycarbonate.
- Also available in special colours. Contact us for details.

[Application]
- Cabinets, train cars, etc.

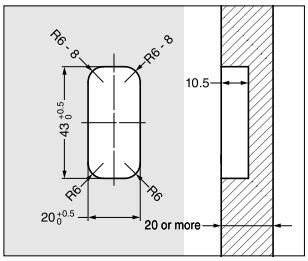
[Remarks]
- Attach the cushioning rubber after installation.

[Recommended Screw]
- M4 cross-recessed screw or size 4 countersunk head tapping screw



[Cut Out Dimensions]

Wood Mounting (20 mm or thicker)



Video Link

No.	Part Name	Material	Finish
①	Main Body	Polycarbonate (PC)	Partial Blast Finish
②	Arm		
③	Spring	Stainless Steel (SUS304)	Plain
④	Shaft		
⑤	Cushioning Rubber	Chloroprene Rubber (CR)	–

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-041-087	NF-47D-GR	Grey	75	7.6	11	40	360
G	3D	110-041-088	NF-47D-DGR	Dark Grey				40	360
G	3D	110-041-089	NF-47D-WT	White				40	360

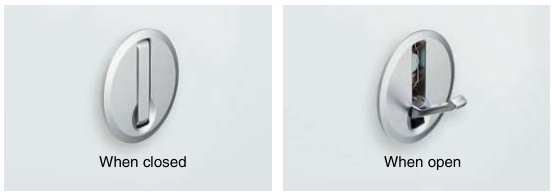
RECESSED HOOK NF-R

TEST METHOD 18



- The arm section is spring powered and automatically folds back in when no force is exerted on it.
- The product does not protrude when the arm is folded in, creating a neat design and ensuring safety.
- Can also be mounted to sheet metal using the NF-50D or NF-50 bracket (sold separately).
- A square type is also available.

[Application Example]



[Remarks]

- Remove the cushioning rubber before mounting to a wooden surface.

[Sold Separately]

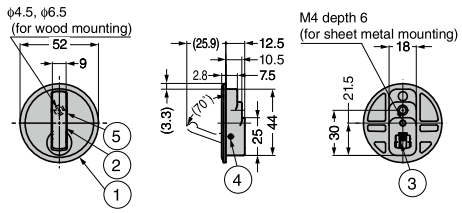
- NF-50D bracket, NF-50 bracket (P.129)

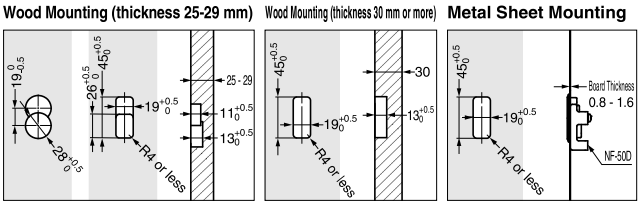
[Recommended Screw]

- Wood mounting (thickness 25-29 mm): Size 4 x 15 cross-recessed pan head tapping screws
- Wood mounting (thickness 30 mm or more): Size 4 x 20 cross-recessed pan head tapping screws

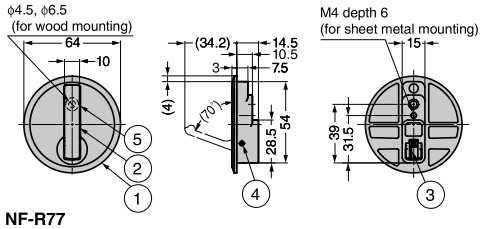
No.	Part Name	Material
①	Main Body	Zinc Alloy (ZDC)
②	Arm	
③	Spring	Stainless Steel (SUS304)
④	Knurled Pin	Stainless Steel (SUS303)
⑤	Cushioning Rubber	Chloroprene Rubber (CR)

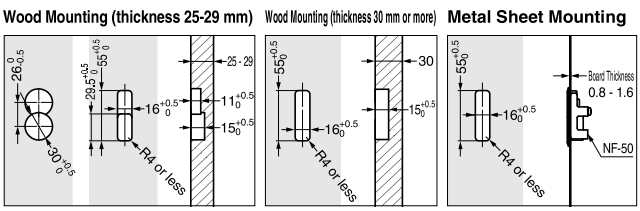
NF-R52



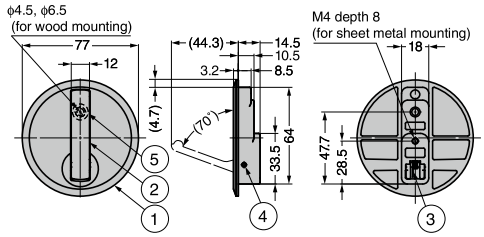


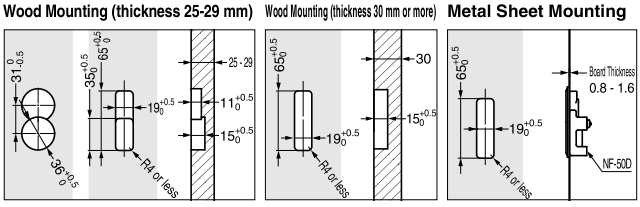
NF-R64





NF-R77





RoHS	CAD	Item Code	Item Name	Finish/Colour	Load Capacity N	Load Capacity kgf	Bracket for Sheet Metal	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-041-175	NF-R52-SCR	Pearl Chrome Plating	196	20	NF-50D	70	10	120
G	3D	110-041-176	NF-R52-CR	Chrome Plating					10	120
G	3D	110-041-177	NF-R52-BL	Baked Enamel Finish/Matte Black					10	120
G	3D	110-020-068	NF-R64-SCR	Pearl Chrome Plating			NF-50	90	10	120
G	3D	110-041-178	NF-R64-CR	Chrome Plating					10	120
G	3D	110-041-179	NF-R64-BL	Baked Enamel Finish/Matte Black					10	120
G	3D	110-034-954	NF-R64-GP	24K Gold Plating, Clear Coating					10	120
G	3D	110-041-180	NF-R77-SCR	Pearl Chrome Plating			NF-50D	130	10	120
G	3D	110-041-181	NF-R77-CR	Chrome Plating					10	120
G	3D	110-041-182	NF-R77-BL	Baked Enamel Finish/Matte Black					10	120

RECESSED HOOK NF-K

TEST METHOD 18



- The arm section is spring powered and automatically folds back in when no force is exerted on it.
- The product does not protrude when the arm is folded in, creating a neat design and ensuring safety.
- Can also be mounted to sheet metal using the NF-50D or NF-50 bracket (sold separately).
- A round type is also available.

[Remarks]

- Remove the cushioning rubber before mounting to a wooden surface.

[Sold Separately]

- NF-50D bracket, NF-50 bracket (P.129)

[Recommended Screw]

- Wood mounting (thickness 25-29 mm): Size 4 x 15 cross-recessed pan head tapping screws
- Wood mounting (thickness 30 mm or more): Size 4 x 20 cross-recessed pan head tapping screws

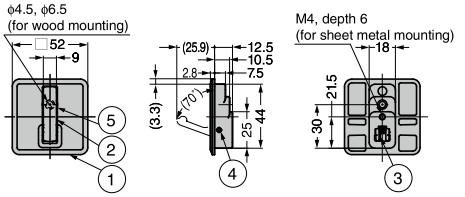
[Application Example]



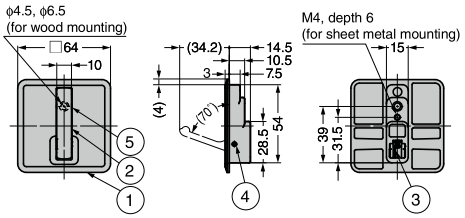


No.	Part Name	Material
①	Main Body	Zinc Alloy (ZDC)
②	Arm	
③	Spring	Stainless Steel (SUS304)
④	Knurled Pin	Stainless Steel (SUS303)
⑤	Cushioning Rubber	Chloroprene Rubber (CR)

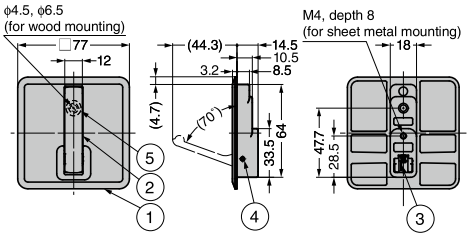
NF-K52



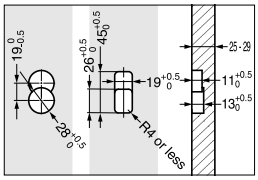
NF-K64



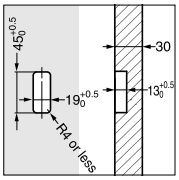
NF-K77



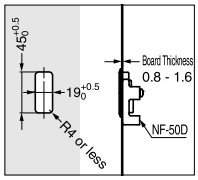
Wood Mounting (thickness 25-29 mm)



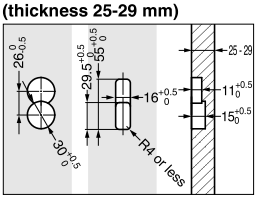
Wood Mounting (thickness 30 mm or more)



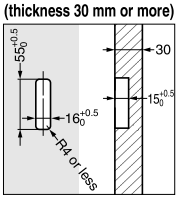
Metal Sheet Mounting



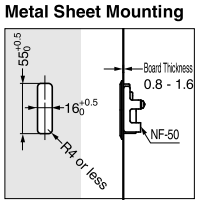
Wood Mounting (thickness 25-29 mm)



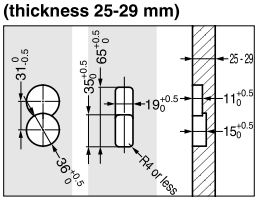
Wood Mounting (thickness 30 mm or more)



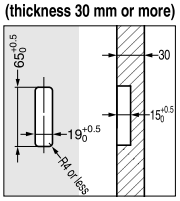
Metal Sheet Mounting



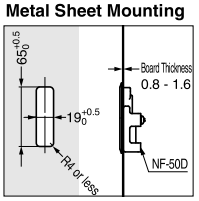
Wood Mounting (thickness 25-29 mm)



Wood Mounting (thickness 30 mm or more)



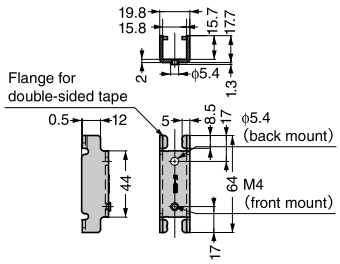
Metal Sheet Mounting



RoHS	CAD	Item Code	Item Name	Finish/Colour	Load Capacity N	Load Capacity kgf	Bracket for Sheet Metal	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-041-183	NF-K52-SCR	Pearl Chrome Plating	196	20	NF-50D	77	10	120
G	3D	110-041-184	NF-K52-CR	Chrome Plating					10	120
G	3D	110-041-185	NF-K52-BL	Baked Enamel Finish/Matte Black					10	120
G	3D	110-041-186	NF-K64-SCR	Pearl Chrome Plating			NF-50	95	10	120
G	3D	110-041-187	NF-K64-CR	Chrome Plating					10	120
G	3D	110-041-188	NF-K64-BL	Baked Enamel Finish/Matte Black					10	120
G	3D	110-041-189	NF-K77-SCR	Pearl Chrome Plating			NF-50D	145	10	120
G	3D	110-041-190	NF-K77-CR	Chrome Plating					10	120
G	3D	110-041-191	NF-K77-BL	Baked Enamel Finish/Matte Black					10	120

BRACKET FOR SHEET METAL NF-45DB





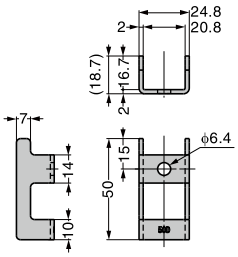
- Allows for mount on metal sheet of the NF-45D hook.
- Can be mounted from both front and back sides of sheet metal.
- Has flanges for double-sided tapes. This allows for temporary fixing before screwing. (Recommended thickness of tape: 0.8 - 1.0 mm)

[Parts Included]
- For front mount: cross-recessed countersunk screw M4 × 25
- For back mount: cross-recessed pan head screw (washer assembled)

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)
G	3D	110-044-075	NF-45DB	Steel (SPCC)	Coloured Zinc Chromate (Trivalent)	40	40

BRACKET FOR SHEET METAL NF-50D





- Bracket for sheet metal applications of NF-60D 1 and NF-R52/77 2 and NF-K52/77 3.

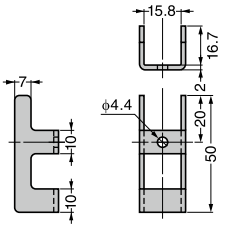
[Parts Included]
- Pan head screw M6×20 (SUS) for NF-60.
- Pan head screw M4×13 (SUS) for NF-R52/NF-K52.

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-024-599	NF-50D	Steel (SPCC)	Coloured Zinc Chromate (Trivalent)	25	30	360

Refer to 1 : P.710, 2 : P.712, 3 : P.713

BRACKET FOR SHEET METAL NF-50





- Bracket for sheet metal applications of NF-60 1 and NF-R64 2 and NF-K64 3.

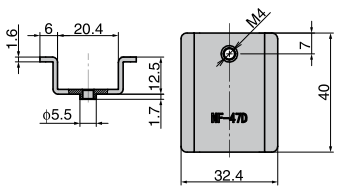
[Parts Included]
- Pan head screw M4×20 (SUS) for NF-60
- Pan head screw M4×14 (SUS) for NF-R64/NF-K64.

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-021	NF-50	Steel (SPCC)	Coloured Zinc Chromate (Trivalent)	22	20	400

Refer to 1 : P.710, 2 : P.712, 3 : P.713

BRACKET FOR RECESSED HOOK NF-47DB





- A bracket for attaching the NF-47D recessed hook to a metal sheet.

[Parts Included]
- Size M4 x 16 cross-recessed flat head screws

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)
G	3D	110-042-079	NF-47DB	Steel (SPCC)	Coloured Chromate Finish (Trivalent)	25

COUNTER HOOK HK-CH35

TEST METHOD 1 TEST METHOD 4



Colour shown on the picture might differ slightly from the actual products.

- Recessed mount on the back of top board provides clean appearance.
- Hook can be seen at the edge when unused.
- Hook will not protrude top board when used.
- Hook closes and retracts into body when hooked items removed.
- Hook slowly closes thank to damper mechanism.
- Applicable board thickness: Min.26mm.For board thickness below 26mm, please use optional spacer and adjust the hook installation position.

[Applications]
- Shop, facility, housing, etc.

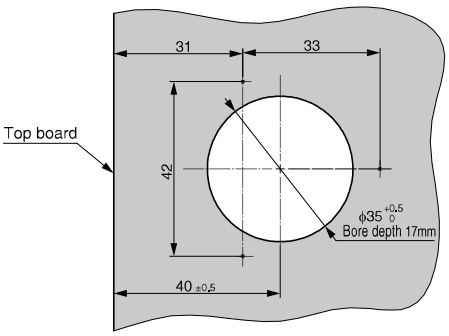
[Remarks]
- Install to top board with adequate strength.

[Parts Included]
- Countersunk head tapping screw 4×20

[Sold Separately]
- Spacer

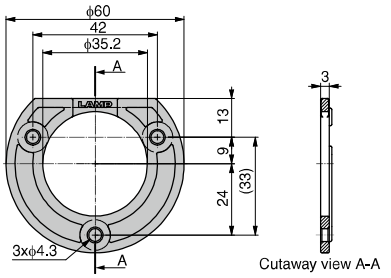
Video Link

[Cut Out Dimensions]

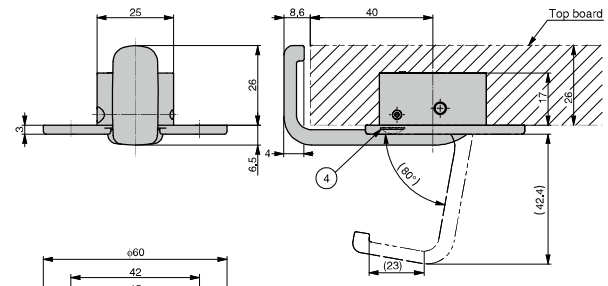


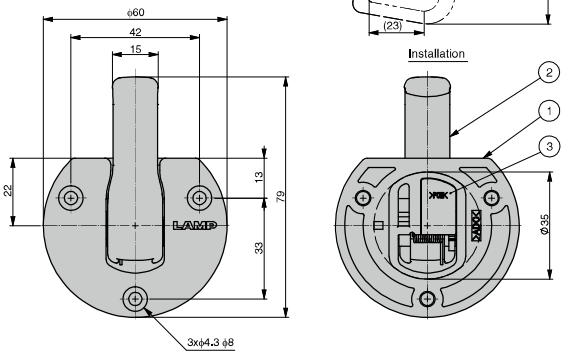
Board Thickness	Qty of Spacers	Bore Depth
Min. 26mm	None	17mm
23~26mm	1 pcs	14mm
20~23mm	2 pcs	11mm
17~20mm	3 pcs	8mm

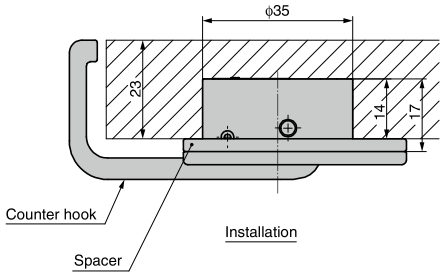
[Spacer]



[Hook]







No.	Part Name	Material	Finish / Colour
①	Body	Aluminium Alloy (ADC)	Enamel Finish/Black, Silver, Brown
②	Arm	Aluminium Alloy (ADC)	Enamel Finish/Black, Silver, Brown
③	Cover	POM	–
④	Bumper	PUR	Clear
⑤	Spacer	PA	Black

[Hook]

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-037-828	HK-CH35-BL	Black	98	10	47.1	10	200
G	3D	110-037-829	HK-CH35-BR	Brown				10	200
G	3D	110-037-830	HK-CH35-SL	Silver				10	200

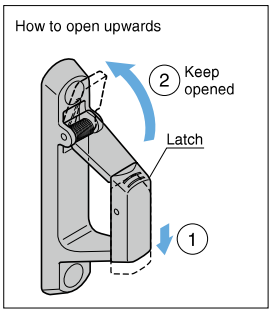
[Spacer]

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-037-831	HK-CH35-DP3	5.1	100	1000

LATCH HOOK EN-E107

TEST METHOD 4 SUS316


When opened upwards

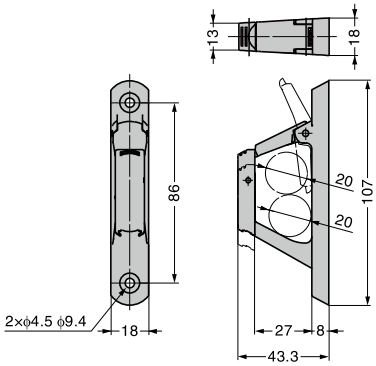



When closed


When opened downwards

- One push release for wide opening.
- Hook is spring loaded to retract, preventing hooked items from falling off.
- Up to two chains or ropes (up to ϕ20 in diameter) can be hung.
- Suitable for exterior use. (e.g. marine, housing, shops and leashes for pets).
- Slim design allows installing to door or window frame.

[Parts Included]
- Countersunk head tapping screw 4×25 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	Applicable Rope Dia.	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-028-722	EN-E107	Stainless Steel (SCS14)	Polished	ϕ20×2	392	40	131	10	60

※SCS14 is equivalent to SUS316.

LATCH HOOK EN-K

NSF TEST METHOD 4 SUS316



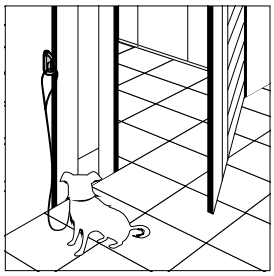
When closed

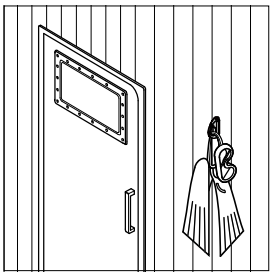

When opened

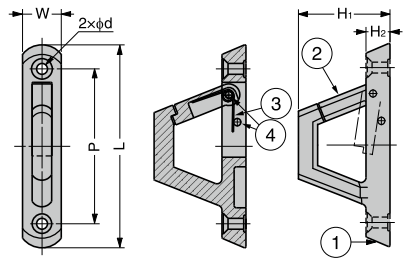
- Hook is spring loaded to retract, preventing hooked items from falling off.
- Chain or rope up to ϕ10 (for EN-K84) or ϕ20 (for EN-K120) can be hung.
- Suitable for exterior use. (e.g. marine, housing, shops and leashes for pets)
- Slim design allows installing to door or window frame.

[Parts Included]
- EN-K84: Countersunk head tapping screw 4×25
- EN-K120: Countersunk head tapping screw 5×30

[Application Example]







No.	Part Name	Material	Finish
①	Body	Stainless Steel (SCS14)	Polished
②	Arm		
③	Spring	Stainless Steel (SUS316)	Plain
④	Shaft		

※SCS14 is equivalent to SUS316.

RoHS	CAD	Item Code	Item Name	L	P	H1	H2	W	d	Applicable Rope Dia.	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-026	EN-K84	84	64	38	10	16	ϕ4.5 ϕ8.5	Max. ϕ10	196	20	92	10	120
G	3D	110-010-109	EN-K120	120	96	54	12	22	ϕ5.4 ϕ10.5	Max. ϕ20	588	60	280	10	60

LATCH HOOK EN-R80

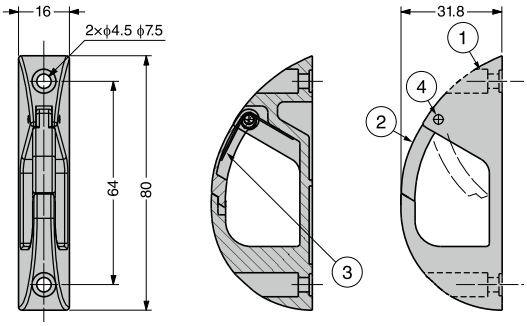
NSF TEST METHOD 4 SUS316


When closed

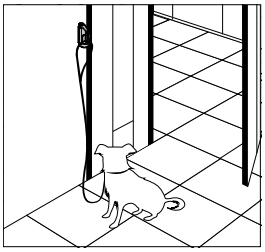

When opened

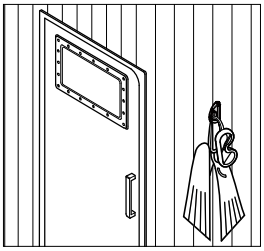
- Hook is spring loaded to retract, preventing hooked items from falling off.
- Suitable for exterior use. (e.g. marine and leashes for pets).
- Slim design allows installing to door or window frame.
- Chain or rope up to ϕ10 in diameter can be hung.

[Parts Included]
- Pan head tapping screw 4×25



[Application Example]





No.	Part Name	Material	Finish
①	Body	Stainless Steel (SCS14)	Polished
②	Arm		
③	Spring	Stainless Steel (SUS316)	Plain
④	Shaft		

※SCS14 is equivalent to SUS316.

RoHS	CAD	Item Code	Item Name	Applicable Rope Dia.	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-025	EN-R80	Max. ϕ10	196	20	85	10	120

LATCH HOOK EN-R80-K Suitable for Padlock

TEST METHOD 4 SUS316

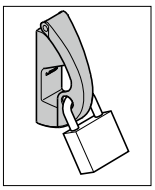

When closed

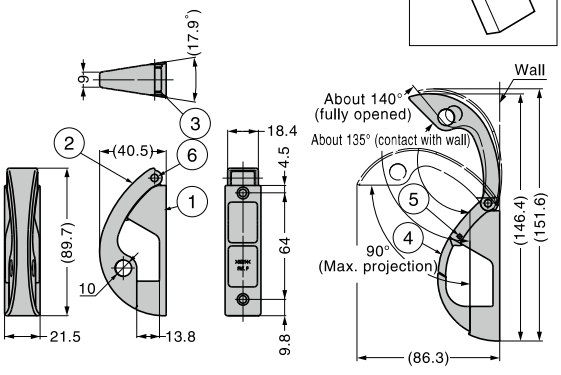

When opened

- Latch type tip prevents hooked items from falling off.
- With a hole for optional padlock 1.
- Chain or rope up to ϕ12 in diameter can be hung.
- Slim design allows installing to door or window frame.

[Others]
- Recommended padlock PWL-30, PWL-30L 1

[Parts Included]
- Pan head tapping screw 4×25 (SUS)





No.	Part Name	Material	Finish
①	Body	Stainless Steel (SCS14)	Polished
②	Cover	Stainless Steel (SUS316)	
③	O-Ring	Ethylene Propylene Rubber (EPDM)	Black
④	Lever	Stainless Steel (SCS14)	Polished
⑤	Shaft	Stainless Steel (SUS316)	Plain
⑥	Cover Shaft		

※SCS14 is equivalent to SUS316.

RoHS	CAD	Item Code	Item Name	Applicable Rope Dia.	Padlock Hole Dia.	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-022-201	EN-R80-K	Max. ϕ12	10	196	20	180	10	60

Refer to 1 : P.873

LATCH HOOK EN-R100F With Friction

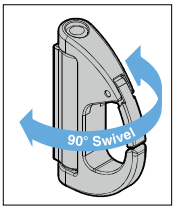
SUS316

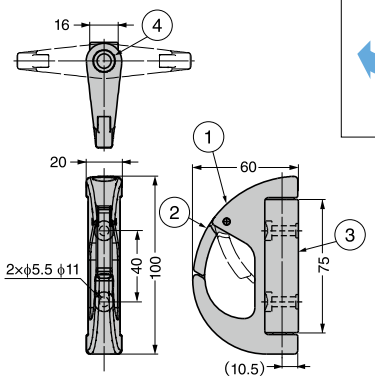

When closed


When opened

- Hook is spring loaded to retract, preventing hooked items from falling off.
- Swivels 90°. Can be folded when not in use.
- Friction function prevents swinging around.
- Suitable for exterior use. (e.g. marine).
- Chain or rope up to φ16 in diameter can be hung.

[Parts Included]
- Binding head tapping screw 5×30 (SUS)





No.	Part Name	Material	Finish
①	Body	Stainless Steel (SCS14)	Polished
②	Arm		
③	Base		
④	Shaft	Stainless Steel (SUS316)	Plain

※SCS14 is equivalent to SUS316.

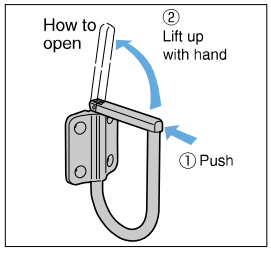
RoHS	CAD	Item Code	Item Name	Applicable Rope Dia.	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-018-675	EN-R100F	Max. φ16	588	60	350	10	50

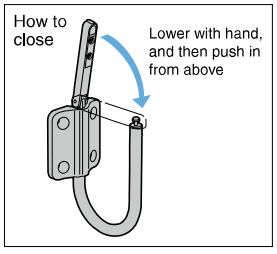
LARGE LATCH HOOK JN-T100 With Friction

SUS


When closed


When opened

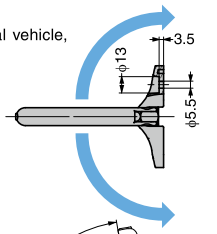


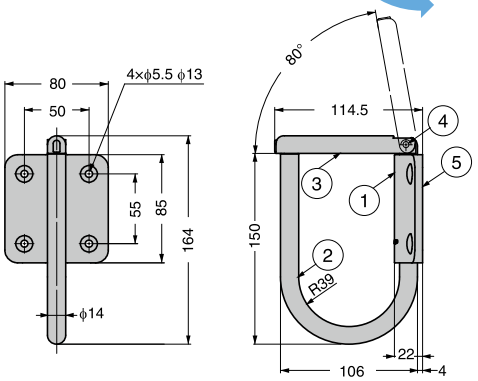


- Swivels 180° and prevents unexpected swinging by friction.
- Closed arm prevents hooked items from falling off.
- Suitable for hanging cables, ropes and pipes, etc.

[Applications]
- Medical equipment, medical stand, special vehicle, garage, ship, etc.

[Parts Included]
- Binding head tapping screw 5×30 (SUS)





No.	Part Name	Material	Finish
①	Strike	Stainless Steel (SCS13)	Polished
②	Hook	Stainless Steel (SUS303)	
③	Arm	Stainless Steel (SCS13)	
④	Shaft	Stainless Steel (SUS303)	Plain
⑤	Back Plate	Stainless Steel (SUS304)	

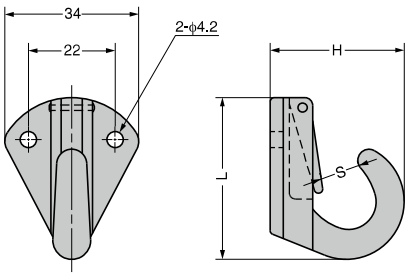
RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-022-111	JN-T100	392	40	772	5	20

LATCH HOOK WH

NSF SUS



●Keep items hooked, ideal for vibration or shock applications.



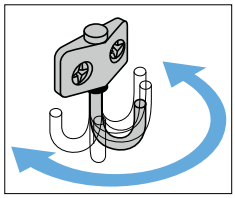
RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	S	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	–	110-029-158	WH-1	Stainless Steel	Polished	38	25	7	147	15	40	20	200
G	–	110-029-122	WH-2			41	34	10			55	20	200

SWING HOOK JF-T With Friction

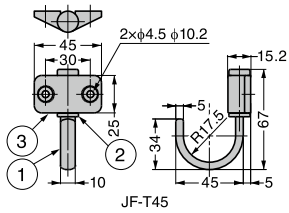
NSF TEST METHOD 4 SUS

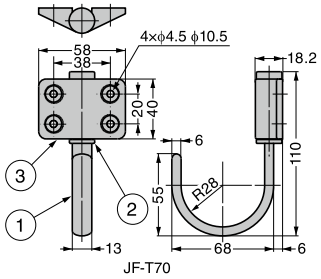


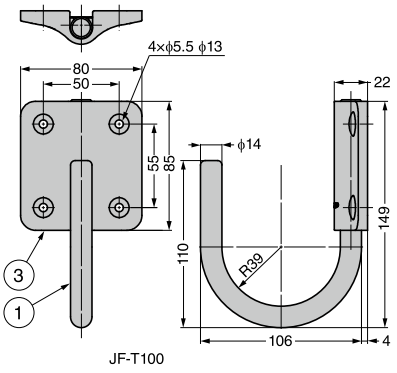
●Large type JF-T100 with load capacity of 392N (40kgf) is newly launched.
●Swivels 180 ° and prevents swinging by friction.



[Parts Included]
●JF-T45, JF-T70: Truss head tapping screw 4×20 (SUS)
●JF-T100: Binding Head Tapping Screw 5×30 (SUS)







RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-083	JF-T45	170	17	90	10	120
G	3D	110-020-084	JF-T70			225	10	60
G	3D	110-032-414	JF-T100	392	40	638	5	20

No.	Part Name	Material	Finish / Colour
①	Hook	Stainless Steel (SUS304), Stainless Steel (SUS303): JF-T100 Only	Polished
②	Bracket	POM	Black
③	Strike	Stainless Steel (SCS13)	Polished

※SCS13 is equivalent to SUS304.

STAINLESS STEEL FRICTION TYPE LARGE HOOK WITH SPHERICAL TIP HK-TS

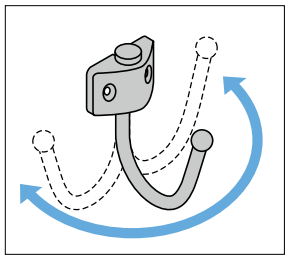
TEST METHOD 19 SUS

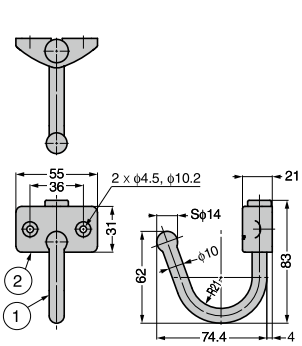


- Hook swivels 180° .
- Friction prevents unintended swivelling caused by vibrations.
- Ball end prevents injury.
- Double-hook type (HK-TT) is also available.

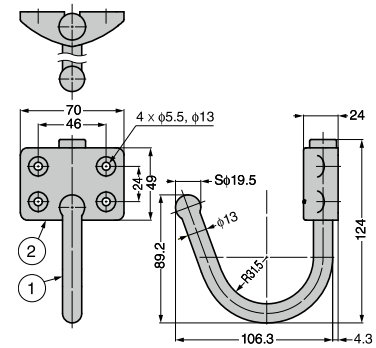
[Parts Included]

- HK-TS70: Size 4 x 25 cross-recessed truss head tapping screws (stainless steel)
- HK-TS100: Size 5 x 35 cross-recessed truss head tapping screws (stainless steel)





HK-TS70



HK-TS100

No.	Part Name	Material	Finish
①	Hook	Stainless Steel (SUS304)	Polished
②	Strike	Stainless Steel (SCS13)	

RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	110-041-226	HK-TS70	100	10.2	230
G	3D	110-041-227	HK-TS100	260	26.5	550

STAINLESS STEEL FRICTION TYPE LARGE HOOK WITH SPHERICAL TIP HK-TT

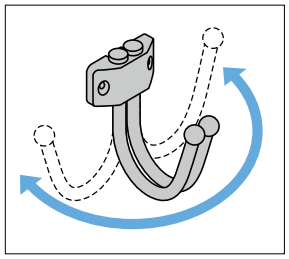
TEST METHOD 19 SUS

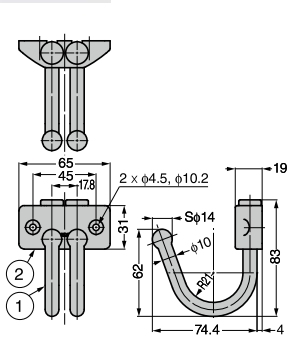


- Hook swivels 180° .
- Friction prevents unintended swivelling caused by vibrations.
- Ball end prevents injury.
- Single-hook type (HK-TS) is also available.

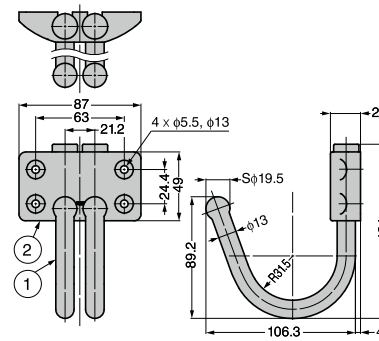
[Parts Included]

- HK-TT70: Size 4 x 25 cross-recessed truss head tapping screws (stainless steel)
- HK-TT100: Size 5 x 35 cross-recessed truss head tapping screws (stainless steel)





HK-TT70



HK-TT100

No.	Part Name	Material	Finish
①	Hook	Stainless Steel (SUS304)	Polished
②	Strike	Stainless Steel (SCS13)	

RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	110-041-228	HK-TT70	100	10.2	260
G	3D	110-041-229	HK-TT100	260	26.5	600

* Load capacity values are for one side only.

BUTTERFLY HOOK TZ-360

TEST METHOD 4 SUS


Flat surface mount

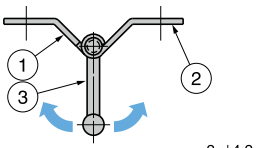

Corner mount

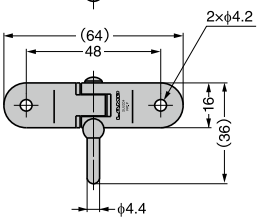

Edge mount

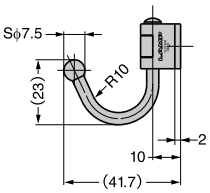
- Can be installed on flat surface, corner and edge, etc.
- Can be used in various applications.
- The rounded tip provides safety.

[Parts Included]

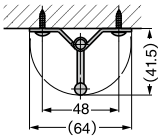
- Truss head tapping screw 4×12 (SUS)



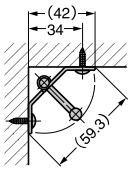




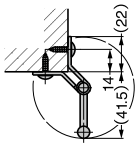
[Installation]



Flat surface mount (180°)



Corner mount (270°)



Edge mount (90°)

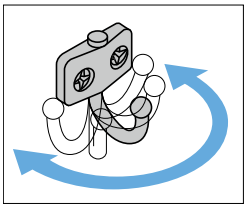
No.	Part Name	Material	Finish
①	Leaf (L)	Stainless Steel (SUS304)	Barrel Polished
②	Leaf (R)		
③	Hook		Polished

RoHS	CAD	Item Code	Item Name	Load Capacity						Weight (g)	Box (pcs)	Carton (pcs)
				Flat Surface Mount N	Flat Surface Mount kgf	Corner Mount N	Corner Mount kgf	Edge Mount N	Edge Mount kgf			
G	3D	110-020-009	TZ-360	60	6	55	5.6	29	3	27	50	500

SWING HOOK TK, TKF

TEST METHOD 4 SUS

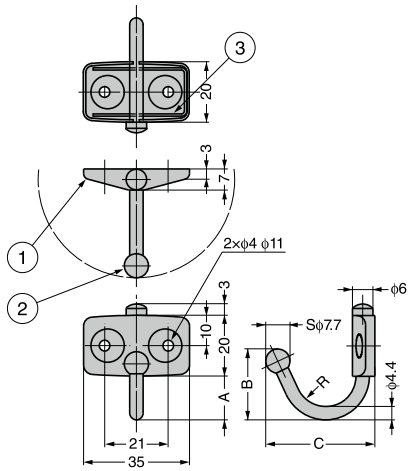




- Swivels 180° and prevents unexpected swinging by friction.
- The rounded tip provides safety.

[Parts Included]

- Countersunk head wood screw 3.5×20 (SUS)



No.	Part Name	Material	Finish
①	Mounting Plate	Stainless Steel (SUS304)	Polished
②	Hook		
③	Spring		Plain

RoHS	CAD	Item Code	Item Name	Type	A	B	C	R	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-250	TK-30	Without Friction	14.5	23.4	36	10	118	12	17	100	1000
G	3D	110-020-254	TK-45		19.4	28.4	44.3	15	90	9	20	100	1000
G	3D	110-020-018	TK-30F	With Friction	14.5	23.4	36	10	118	12	17	100	1000
G	3D	110-020-019	TK-45F		19.5	28.4	44.3	15	90	9	20	100	1000

STAINLESS STEEL ROTATING BALL HOOK (W/FRICTION) TK-W-45F

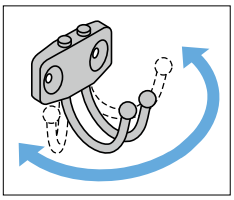
TEST METHOD 4 SUS

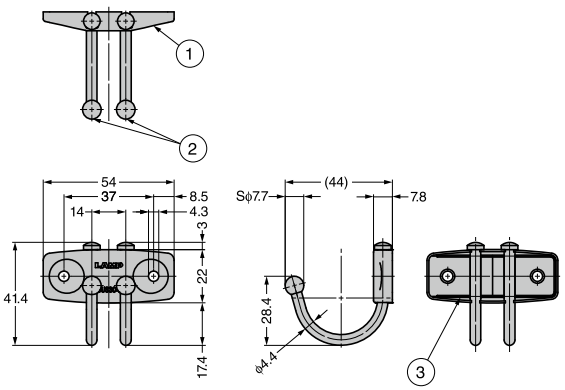


- Friction prevents unintended swivelling caused by vibrations.
- Ball end prevents injury.

[Parts Included]

- Size 4 x 20 cross-recessed round flat head tapping screws (stainless steel)





No.	Part Name	Material	Finish
①	Mounting Plate	Stainless Steel (SUS304)	Barrel Polished
②	Hook Arm		
③	Wire Spring		Plain

RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-040-999	TK-W-45F	Stainless Steel (SUS304)	Barrel Polished	80	8.2	34	50	300

* Load capacity values are for one side only.

SWING HOOK RF-D35

SUS



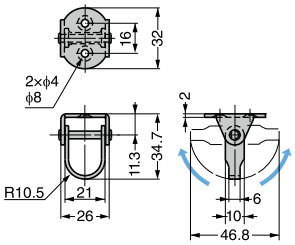
[Ceiling mount]



- Can be installed on ceiling and wall.

[Parts Included]

- Raised countersunk head wood screw 3.5×16



RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity				Weight (g)	Box (pcs)	Carton (pcs)
						Flat Surface Horizontal Mount N	Flat Surface Horizontal Mount kgf	Ceiling Mount N	Ceiling Mount kgf			
G	3D	110-020-249	RF-D35	Stainless Steel (SUS304)	Barrel Polished/Satin	52	5.3	104	10.6	27	50	400

BUTTERFLY HOOK DZ-270

SUS



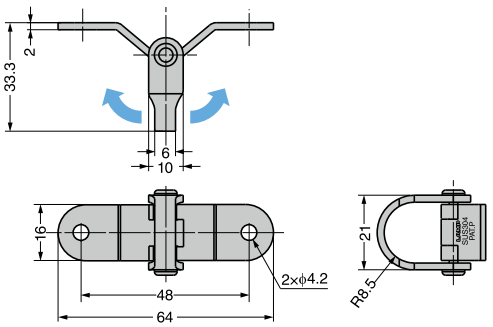




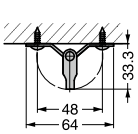
- Can be installed on flat surface, corner and edge.
- Both vertical and horizontal use possible.

[Parts Included]

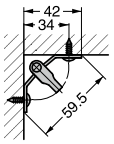
- Truss head tapping screw 4×12



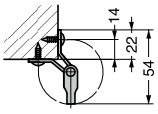
[Installation]



Flat surface mount (180°)



Corner mount (270°)



Edge mount (90°)

RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity										Weight (g)	Box (pcs)	Carton (pcs)
						Flat Surface Horizontal Mount		Flat Surface Vertical Mount		Edge Horizontal Mount		Edge Vertical Mount		Corner Horizontal Mount		Corner Vertical Mount				
						N	kgf	N	kgf	N	kgf	N	kgf	N	kgf	N	kgf			
G	3D	110-020-248	DZ-270	Stainless Steel (SUS304)	Polished	59	6	100	10	29	3	78	8	55	5.6	59	6	29	50	500

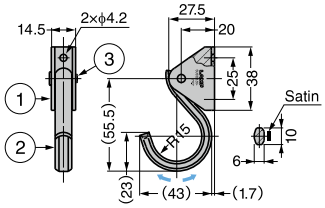
SWING HOOK XL-JSF40TT High Load Capacity

TEST METHOD 4 SUS



Ceiling mount





- High load capacity up to 490N (50kgf).
- Swings forward and backward.Possible to install in various places like ceiling and wall.
- Finish: Combination of polished and satin.

[Parts Included]

- Binding head tapping screw 4×20 (SUS)

No.	Part Name	Material	Finish
①	Bracket	Stainless Steel (SUS304)	Polished
②	Hook	Stainless Steel (SUS303)	Polished/Satin
③	Shaft	Stainless Steel	–

RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-011	XL-JSF40TT	490	50	70	20	120

SWING HOOK UC

TEST METHOD 4 SUS



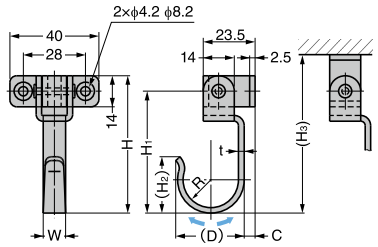
Ceiling mount



- Swings forward and backward. Possible to install in various places like ceiling and wall.

[Parts Included]

- Raised countersunk head tapping screw 4×16 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	W	D	H	H1	H2	H3	C	R	t	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-003	UC-048	Stainless Steel (SUS304)	Polished	9	24.9	55	48	21.4	64.5	6.5	10	2	55	5.6	37	40	400
G	3D	110-020-002	UC-055			10	30.8	62	55	25.5	71.5	5	12.5	2.5	66	6.7	45	25	250

ROTATING SWING HOOK UJ

NSF TEST METHOD 4 SUS



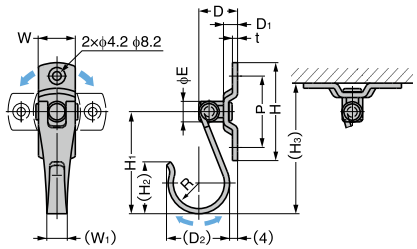
Ceiling mount



- Rotates 360° and swings 180°.
- Possible to install in various places like ceiling and wall.

[Parts Included]

- Raised countersunk head tapping screw 4×16 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	W	W1	D	D1	D2	H	H1	H2	H3	P	E	R	t	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-001	UJ-040	Stainless Steel (SUS304)	Polished	16	9	16.5	5.5	24.9	42	40	21.4	52.5	30	9	10	2	66	7	27	50	500
G	3D	110-020-000	UJ-050			18	10	19	7	30.8	48	50	25.5	64	35	10	12.5	2.5	87	9	45	30	300

ROTATING SWING HOOK RF-U50

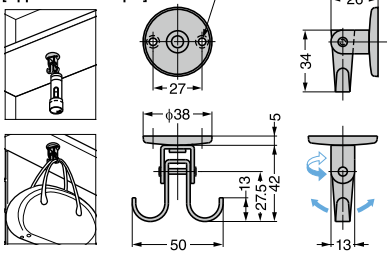
TEST METHOD 4 SUS



Ceiling mount



[Application Example]



- Rotates 360° and swings 180°.
- Possible to install in various places like ceiling and wall.

[Parts Included]

- Raised countersunk head tapping screw 3×25 (SUS)

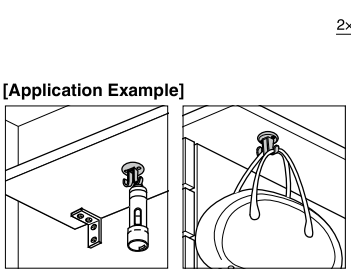
RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/hook	Load Capacity kgf/hook	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-007	RF-U50	Stainless Steel (SUS304)	Satin	60	6	40	25	250

ROTATING HOOK RF-50S

TEST METHOD 4 SUS



[Application Example]



- Rotates 360°.

[Parts Included]

- Raised Countersunk head tapping screw (conical tip) 3×25 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/hook	Load Capacity kgf/hook	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-082	RF-50S	Stainless Steel (SUS304)	Satin	40	4	33	25	500

HEAVY DUTY FOLDING PAD EYE EY-R

TEST METHOD 2 SUS316



- Arm can be folded for safety.
- Friction function prevents the arm from sounding caused by vibration.
- Arm is made of special stainless steel with high strength. (Corrosion resistance is equivalent to SUS 304)
- Buffering effect of body protects the mounting surface from scratches.

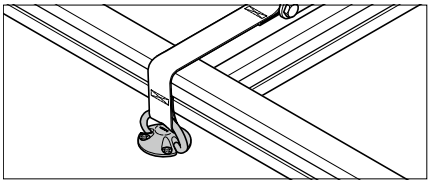
[Applications]

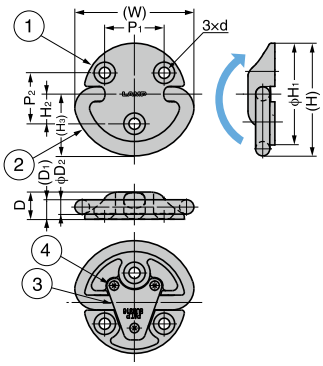
- Marine furniture or offshore facilities, etc.

[Parts Included]

- EY-R50: Hexagon socket countersunk head screw M5×16 (SUS)
- EY-R60: Hexagon socket countersunk head screw M6×16 (SUS)
- EY-R80: Hexagon socket countersunk head screw M8×16 (SUS)

[Application Example]





No.	Part Name	Material	Finish
①	Body	Stainless Steel (SCS14)	Barrel
②	Arm	Stainless Steel	Polished
③	Back Plate	Stainless Steel (SUS304-CSP)	Plain
④	Pan Head Tapping Screw M3×5	Stainless Steel (SUS316)	–

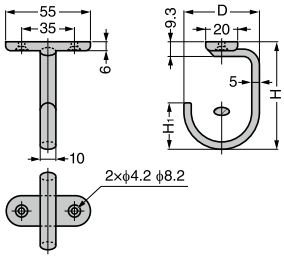
※SCS14 is equivalent to SUS316.

RoHS	CAD	Item Code	Item Name	W	H	H_1	H_2	H_3	D	D_1	D_2	P_1	P_2	d	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-012-542	EY-R50	61.4	56.5	48	13	32.5	14.5	10.5	7.9	28	24	ϕ5.5 ϕ10.4	4900	500	116	10	120
G	3D	110-012-543	EY-R60	75.5	69.5	60	17.5	39.5	16	11.5	8.9	35	30	ϕ6.6 ϕ12.6	7840	800	202	10	60
G	3D	110-012-544	EY-R80	101.3	92.5	80	23	52.5	19	14	11.4	45	40	ϕ9 ϕ17.3	11760	1200	431	5	30

HOOK DS-H

TEST METHOD 4 SUS





- Can be installed on ceilings.

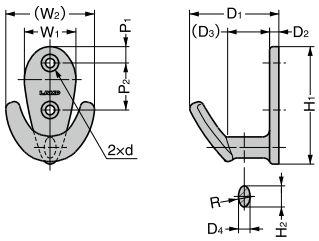
[Parts Included]
- Raised countersunk head tapping screw 4×20 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	D	H	H1	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-205	DS-H-50	Stainless Steel (SUS303)	Polished	50	70	30	98	10	88	5	50
G	3D	110-020-206	DS-H-60			60	100	40			105	5	50

HOOK EU

NSF TEST METHOD 19 SUS316





- Can hang 3 items at same time.
- Two-tip shape provides stable hanging.

[Parts Included]
- EU50: Raised countersunk head wood screw 3.5×20 (SUS) (2 pcs)
- EU72: Raised countersunk head wood screw 4.1×20 (SUS) (2 pcs)

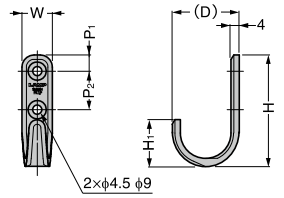
RoHS	CAD	Item Code	Item Name	Material	Finish	H1	H2	W1	W2	D1	D2	D3	D4	P1	P2	d	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-270	EU-50	Stainless Steel (SCS14)	Polished	50	9	22	38	38	4	17.8	5	7	20	ϕ4 ϕ7.4	196	20	42	20	120
G	3D	110-020-271	EU-72			72	14	32	56	52	6	23	8	10	34	ϕ4.6 ϕ8.6	294	30	118	10	60

※SCS14 is equivalent to SUS316.

HOOK XL-HJT

TEST METHOD 4 SUS





- Chamfered HJT 1.

[Parts Included]
- Raised countersunk head wood screw 4.1×16 (SUS)

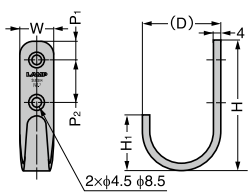
RoHS	CAD	Item Code	Item Name	Material	Finish	D	W	H	H1	P1	P2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-935	XL-HJT55M	Stainless Steel (SUS304)	Polished	33	15.5	55	23	8	19	200	20	34	30	300
G	3D	110-020-936	XL-HJT55TT		Polished and Satin Combination										30	300
G	3D	110-020-937	XL-HJT70M		Polished	43	18.5	70	30	10	23	150	15	53	20	200
G	3D	110-020-938	XL-HJT70TT		Polished and Satin Combination										20	200

Refer to 1 : P.726

HOOK HJT

NSF TEST METHOD 4 SUS





- Black colour (matte) is newly launched.
- Pressing type of EL 1. (Plate thickness 4mm)

[Remarks]
- Noted that scratch is conspicuous on black surface.

[Parts Included]
- Raised countersunk head wood screw 4.1×16 (SUS)

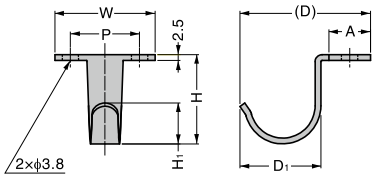
RoHS	CAD	Item Code	Item Name	Material	Finish / Colour	D	W	H	H1	P1	P2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-028	HJT-55S	Stainless Steel (SUS304)	Satin	33	15	55	23	8	19	200	20	34	30	300
G	3D	110-028-966	HJT-55SBL		Paint/Black										30	300
G	3D	110-020-027	HJT-70S		Satin	43	18	70	30	10	23	150	15	53	20	200
G	3D	110-028-967	HJT-70SBL		Paint/Black										20	200

Refer to 1 : P.729

HOOK HJU

SUS





- Wide Hook allows for easy hanging.
- Can be installed from above or below.

[Parts Included]
- Truss head tapping screw 3.5×20 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	W	P	H	H1	A	D	D1	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-017-524	HJU-30S	Stainless Steel (SUS304)	Satin	32.5	20	25	13	13	41.8	25.5	98	10	15	30	600
G	3D	110-017-525	HJU-50S			43.5	30	38.5	18	18	59	37.5			30	40	800

HOOK HJ

NSF TEST METHOD 4 SUS

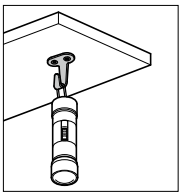


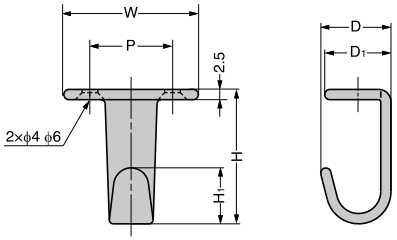
- Black colour (matte) is newly launched.

[Remarks]
- Noted that scratch is conspicuous on black surface.

[Parts Included]
- HJ-20S: Raised countersunk head wood head screw 3.1×16 (SUS)
- HJ-30S, HJ50S: Raised countersunk head wood head screw 3.5×16 (SUS)

[Application Example]



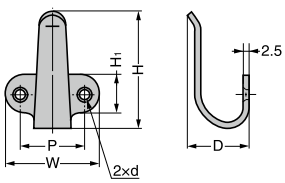


RoHS	CAD	Item Code	Item Name	Material	Finish / Colour	W	P	H	H1	D	D1	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-029	HJ-20S	Stainless Steel (SUS304)	Satin	28	18	27	11	17	13	140	14	11	120	1200
G	3D	110-028-963	HJ-20SBL		Paint/Black										60	600
G	3D	110-020-078	HJ-30S		Satin	32.5	20	33	13.5		16			15	30	600
G	3D	110-028-964	HJ-30SBL		Paint/Black										30	360
G	3D	110-020-079	HJ-50S		Satin	43.5	30	47	19.6	22	21			30	40	800
G	3D	110-028-965	HJ-50SBL		Paint/Black										40	400

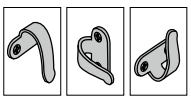
HOOK 2H

NSF TEST METHOD 4 SUS





[Application Example]



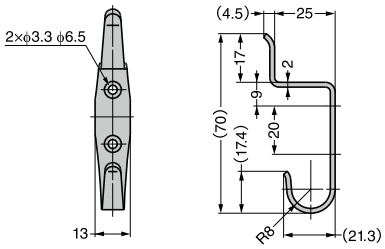
[Parts Included]
- 2H-20S: Raised countersunk head wood head screw 3.1×16 (SUS)
- 2H-30S, SH-40S, 2H50S: Raised countersunk head wood head screw 3.5 ×16 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	W	P	H	H1	D	d	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-010-142	2H-20S	Stainless Steel (SUS304)	Satin	28	18	30	10	18	ϕ4ϕ6.2	98	10	13	120	1200
G	3D	110-010-143	2H-30S			32.5	20	39	13					18	100	1000
G	3D	110-010-144	2H-40S			35	21.5	44	16	23	ϕ4ϕ7	60	6	23	80	800
G	3D	110-010-145	2H-50S			43	30	56	18	25				34	50	500

DOUBLE HOOK RI-074

TEST METHOD 4 SUS





- Unique two-in-one hook.

[Parts Included]
- Raised countersunk head tapping screw 3×16 (SUS)

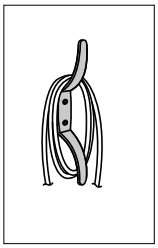
RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N		Load Capacity kgf		Weight (g)	Box (pcs)	Carton (pcs)
						Top	Bottom	Top	Bottom			
G	3D	110-020-006	RI-074	Stainless Steel (SUS304)	Satin	50	60	5	6	16	40	400

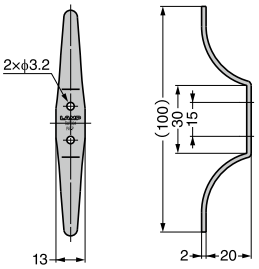
DOUBLE HOOK RB-102

TEST METHOD 4 SUS



[Application Example]





- Ideal for winding up ropes or using as a hook.

[Parts Included]
- Truss head tapping screw 3×16 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-004	RB-102	Stainless Steel (SUS304)	Satin	130	13	16	40	400

HANGER BRACKET CK

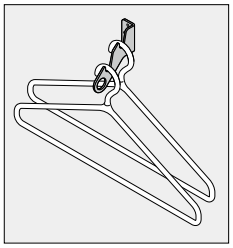
TEST METHOD 4 SUS



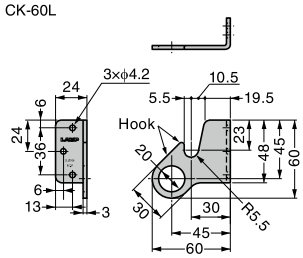
- Polished corners for protecting hands.
- Smart satin finish without curved trace.
- Ideal for hanging hangers.
- Large hook suitable for thick hangers.

[Parts Included]
- Truss tapping screw 4×20 (SUS)

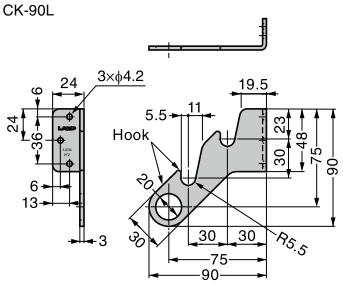
[Application Example]



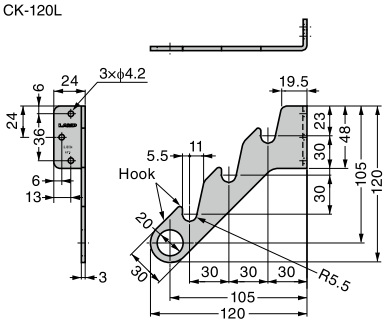
CK-60L



CK-90L



CK-120L

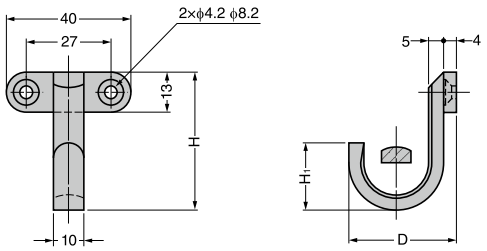


RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/position	Load Capacity kgf/position	Hooks	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-260	CK-60L	Stainless Steel (SUS304)	Satin	14.7	1.5	2	66	15	150
G	3D	110-020-261	CK-90L					3	90	15	150
G	3D	110-020-262	CK-120L					4	113	10	100

HOOK KB-H

TEST METHOD 4 SUS





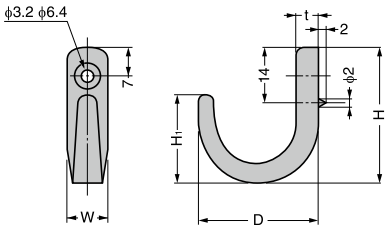
[Parts Included]
- Raised countersunk head tapping screw 4×20 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	D	H	H1	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-029-076	KB-H-35	Stainless Steel (SUS303)	Polished	35	45	22	340	35	49	10	–
G	3D	110-029-077	KB-H-40			40	50	25	280	29	48	10	–

HOOK TA3

TEST METHOD 4 SUS





[Parts Included]
- TA3S : Raised countersunk head wood screw 3.1×16 (SUS)
- TA3L : Raised countersunk head wood screw 3.1×16 (SUS)

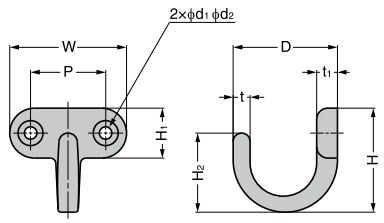
RoHS	CAD	Item Code	Item Name	Material	Finish	D	W	H	H1	t	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-026-008	TA3S	Stainless Steel (SUS13)	Polished	22	9	29	16	4	180	18	10	30	600
G	3D	110-026-009	TA3L			30	10	34	22	5.5			19	20	400

※SCS13 is equivalent to SUS304.

HOOK EP

NSF TEST METHOD 4 SUS





[Parts Included]
- EP-25: Raised countersunk head wood screw 2.7×16 (SUS)
- EP-40: Raised countersunk head wood screw 3.8×20 (SUS)

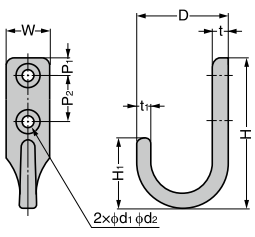
RoHS	CAD	Item Code	Item Name	Material	Finish	D	W	H	H1	H2	t1	t	P	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-026-000	EP-25	Stainless Steel (SUS13)	Polished	25	28	25	12	19	5	4	18	3	6	240	24	16	30	300
G	3D	110-026-001	EP-40			32	36	33	16	25	6	5	23	4	8			31	20	200

※SCS13 is equivalent to SUS304.

HOOK EL

NSF TEST METHOD 4 SUS





[Parts Included]
- EL-25: Raised countersunk head wood screw 2.7×16 (SUS)
- EL-30: Raised countersunk head wood screw 3.8×20 (SUS)

RoHS	CAD	Item Code	Item Name	Material	Finish	D	W	H	H1	t	t1	P1	P2	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-026-004	EL-25	Stainless Steel (SUS13)	Polished	26	12	40	19	5.5	4	5	12	3	6	240	24	19	30	300
G	3D	110-026-005	EL-30			32	15	54.5	25	6	5	6	16	4	8			32	20	200

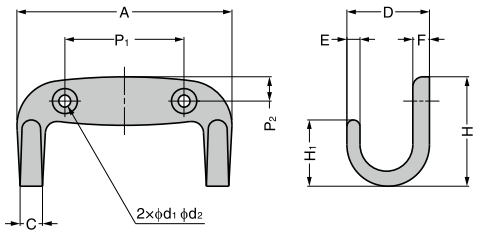
※SCS13 is equivalent to SUS304.

HOOK EW

NSF TEST METHOD 4 SUS



[Parts Included]
- EW-65E: Raised countersunk head wood screw 3.1×16 (SUS)
- EW-80E: Raised countersunk head wood screw 3.8×20 (SUS)



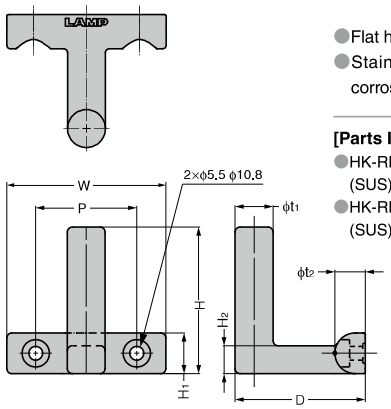
RoHS	CAD	Item Code	Item Name	Material	Finish	A	P1	C	D	E	F	P2	H	H1	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-026-002	EW-65E	Stainless Steel (SCS13)	Polished	65	36	6.5	25	4	5	7.3	33	20	3.6	7.6	200	20	52	10	100
G	3D	110-026-003	EW-80E			80	44	8	32	5	6	9	42	25	4.2	8.8			93	10	100

※SCS13 is equivalent to SUS304.

HOOK HK-RH

TEST METHOD 4 SUS





- Flat hook bottom.
- Stainless steel construction suitable for corrosive environments.

[Parts Included]
- HK-RH40 : Binding head tapping screw 4×20 (SUS)
- HK-RH60 : Binding head tapping screw 5×30 (SUS)

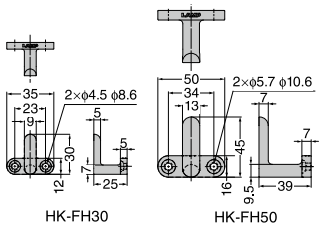
RoHS	CAD	Item Code	Item Name	Material	Finish	D	d1	d2	H	H1	H2	P	t1	t2	W	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-037-670	HK-RH40	Stainless Steel (SCS13)	Polished	35	4.5	8.8	39	12	8	28	10	9	42	196	20	57	–	–
G	3D	110-037-671	HK-RH60			51.5	5.5	10.8	58	16	11	40	15	12	63	245	25	175	–	–

※SCS13 is equivalent to SUS304.

HOOK HK-FH

TEST METHOD 4





- Supplied screws are of the same finish as the body.
- Flat hook bottom.

[Parts Included]
- HK-FH30 : Countersunk head tapping screw 4×20 (steel)
- HK-FH50 : Countersunk head tapping screw 5×30 (steel)

RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-037-662	HK-FH30-CR	Zinc Alloy (ZDC)	Chrome	98	10	23	25	250
G	3D	110-037-665	HK-FH30-BL		Black			23	25	250
G	3D	110-037-663	HK-FH30-DB		Copper			23	25	250
G	3D	110-037-664	HK-FH30-PB		Brass			23	25	250
G	3D	110-037-666	HK-FH50-CR		Chrome	147	15	68	15	150
G	3D	110-037-669	HK-FH50-BL		Black			68	15	150
G	3D	110-037-667	HK-FH50-DB		Copper			68	15	150
G	3D	110-037-668	HK-FH50-PB		Brass			68	15	150

STAINLESS STEEL HOOK HK-LB

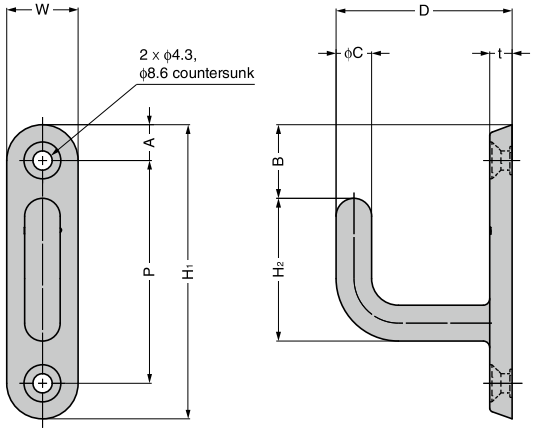
TEST METHOD 19 SUS316



- A stainless steel hook with a thick plate for a high-class look.
- Rounded hook tip ensures safe use.

[Parts Included]

- Size 4 x 32 cross-recessed round flat head tapping screws (stainless steel)



RoHS	CAD	Item Code	Item Name	Material	Finish	W	H1	H2	P	A	B	C	D	t	Load Capacity N	Load Capacity kgf	Weight (g)
–	3D	110-041-267	HK-LB50	Stainless Steel (SCS14)	Polished	16	65	32	50	8	16.5	8	39.5	5	150	15.3	46
G	3D	110-041-268	HK-LB65			18	85	44.5	65	9	20	9	49	6.5			81

※SCS14 is a cast steel material similar to SUS316.

STAINLESS STEEL HOOK JF2B-40M

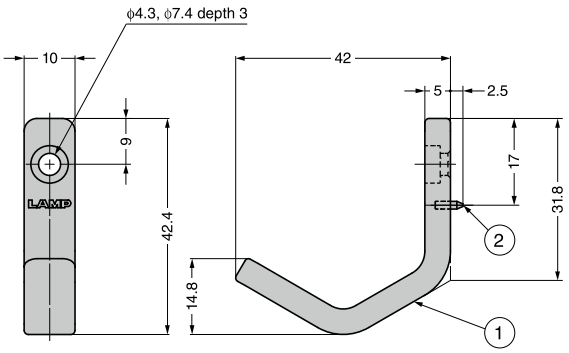
TEST METHOD 19 SUS



- A stainless steel hook that can be used in many places including modernist interiors.

[Parts Included]

- Size 4 x 32 cross-recessed pan head tapping screws (stainless steel)



No.	Part Name	Material	Finish/Colour
①	Hook Body	Stainless Steel (SUS304)	Polished
②	Sharp Pins	Stainless Steel (SUS303)	Plain

RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-037-145	JF2B-40M	100	10.2	27.4	20	120

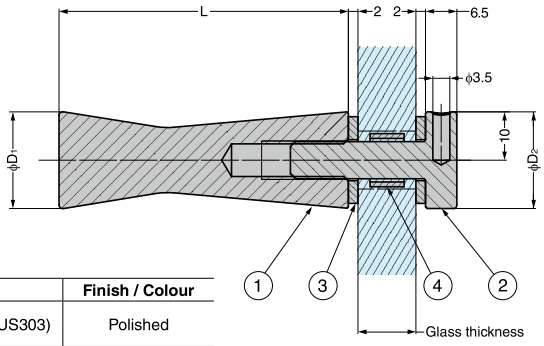
STAINLESS STEEL HOOK HK-DF-G

TEST METHOD 4 | TEMPERED GLASS | SUS

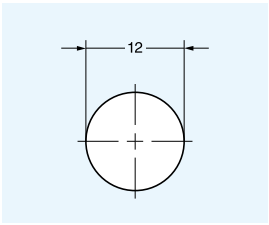


- For shower booth or glass partition, etc.
- Integrated design with HK-DF for wood (see below).
- Clean appearance without visible screws.
- Symmetrical design for easy installation.

[Parts Included]
- Gasket
- Tube



[Cut Out Dimensions for Glass]

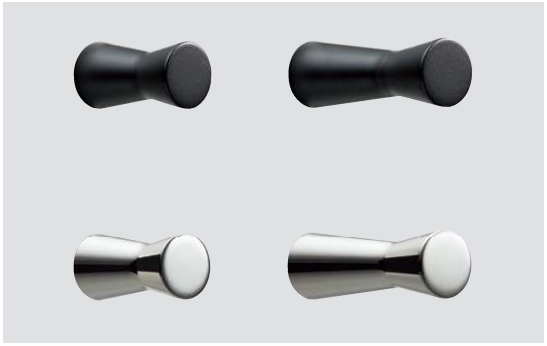


No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SUS303)	Polished
②	Base		
③	Gasket	POM	Plain/Black
④	Tube	PVC	Plain/Clear

RoHS	CAD	Item Code	Item Name	D_1	D_2	L	Glass Thickness	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	110-033-706	HK-DF-18G	18	18	38	8, 10, 12	150	15.2	70	25	100
–	–	110-041-247	HK-DF-18G-BL								25	100
–	3D	110-033-707	HK-DF-20G	20	20	60				123	25	100
–	–	110-041-248	HK-DF-20G-BL								25	100

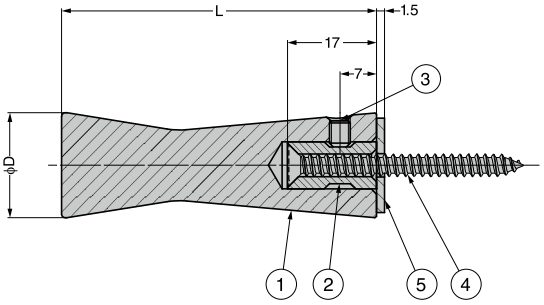
STAINLESS STEEL HOOK HK-DF

TEST METHOD 4 | SUS



- Integrated design with HK-DF-G for glass (see above).
- Symmetrical design for easy installation.

[Parts Included]
- Countersunk head tapping screw 4×50
- Washer



No.	Part Name	Material	Finish
①	Body	Stainless Steel (SUS303)	Polished
②	Block		Plain
③	Hexagon Socket Set Screw M4×5	Stainless Steel	
④	Binding Head Tapping Screw	Steel	Coloured Zinc Chromate
⑤	Washer	Stainless Steel	Plain

RoHS	CAD	Item Code	Item Name	D_1	L	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	110-033-704	HK-DF-18	18	38	150	15.2	50	25	100
–	–	110-041-245	HK-DF-18-BL						25	100
–	3D	110-033-705	HK-DF-20	20	60			100	25	100
–	–	110-041-246	HK-DF-20-BL						25	100

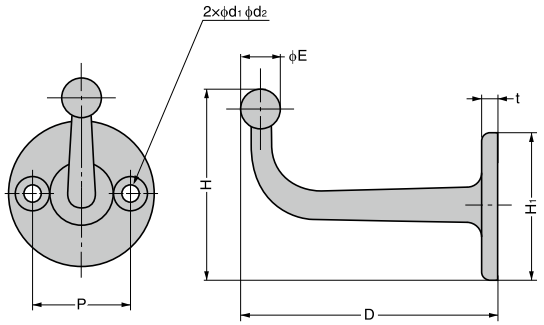
HOOK FC

NSF TEST METHOD 4 TITANIUM SUS



- The rounded tip provides safety.
- Titanium handle hardly causes metal allergy.

[Parts Included]
- FC-50: Raised countersunk head wood screw 3.1 × 16 (SUS)
- FC-65: Raised countersunk head wood screw 3.8 × 20 (SUS)



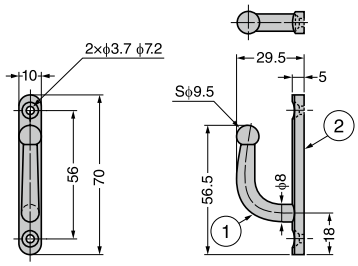
RoHS	CAD	Item Code	Item Name	Material	Finish	D	H	H₁	t	P	d₁	d₂	E	Load Capacity N	Load Capacity kgf	Weight (g)	Screw	Box (pcs)	Carton (pcs)
–	3D	110-020-121	FC-50TI	Titanium	Shot	47	37	28	3	18.5	3.3	6.5	6.5	222	23	17	–	20	120
–	3D	110-020-120	FC-65TI		Blast	65	44	35	4	22.5	4.2	8	8	294	30	34		30	180
G	3D	110-026-006	FC-50	Stainless Steel (SCS13)	Polished	47	37	28	3	18.5	3.3	6.5	6.5	98	10	25	3.1×16	40	480
G	3D	110-026-007	FC-65			65	44	35	4	22.5	4.2	8	8	117.6	12	54.5	3.8×20	20	240

※SCS13 is equivalent to SUS304.

HOOK KB-F-70

SUS





- The rounded tip provides safety.

[Parts Included]
- Raised countersunk head tapping screw 3.5×20 (SUS)

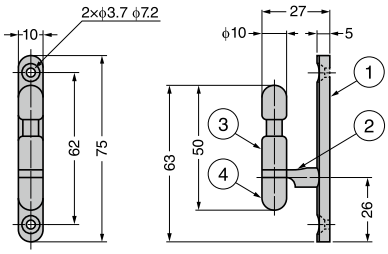
No.	Part Name	Material	Finish
①	Hook	Stainless Steel (SUS304)	Polished
②	Counter Plate	Stainless Steel (SUS303)	

RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-207	KB-F-70	47	5	100

HOOK KB-F-75

SUS





- The rounded tip provides safety.

[Parts Included]
- Raised countersunk head tapping screw 3.5×20 (SUS)

No.	Part Name	Material	Finish
①	Plate	Stainless Steel (SUS303)	Polished
②	Arm	Stainless Steel (SUS304)	
③	Upper Hook Part	Stainless Steel (SUS303)	
④	Lower Hook Part		

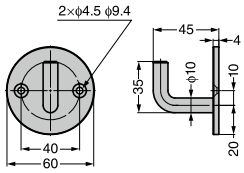
RoHS	CAD	Item Code	Item Name	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-208	KB-F-75	55	5	100

STAINLESS STEEL HOOK DFHK-RWS60 Single Type

TEST METHOD 4 SUS


Satin


Paint/ Matte Black



- A stainless steel hook with a thick base and robust hook arm.
- The attached screws have the same finish as the body.

[Applications]
- Hook for both indoor and outdoor use, such as hanging cords for industrial equipment, etc.

[Parts Included]
- Cross-recessed flat head tapping screws 4.1×20 (for stainless steel)

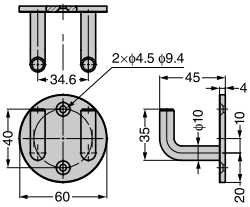
RoHS	CAD	Item Code	Item Name	Finish/Colour	Material	Load Capacity N	Load Capacity kgf	Box (pcs)	Carton (pcs)
G	3D	110-048-703	DFHK-RWS60-SS	Satin	Stainless Steel (SUS304)	250	25.5	6	60
G	3D	110-049-428	DFHK-RWS60-BL	Paint/Matte Black					

STAINLESS STEEL HOOK DFHK-RWD60 Twin Type

TEST METHOD 4 SUS


Satin


Paint/ Matte Black



- A stainless steel hook with a thick base and robust hook arm.
- The attached screws have the same finish as the body.

[Applications]
- Hook for both indoor and outdoor use, such as hanging cords for industrial equipment, etc.

[Parts Included]
- Cross-recessed flat head tapping screws 4.1×20 (for stainless steel)

RoHS	CAD	Item Code	Item Name	Finish/Colour	Material	Load Capacity N	Load Capacity kgf	Box (pcs)	Carton (pcs)
G	3D	110-048-704	DFHK-RWD60-SS	Satin	Stainless Steel (SUS304)	250	25.5	6	60
G	3D	110-049-429	DFHK-RWD60-BL	Paint/Matte Black					

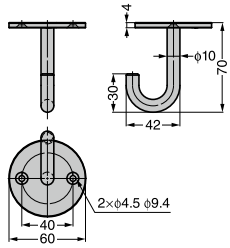
*Load capacity is the total for two hooks.

STAINLESS STEEL TOP MOUNT HOOK DFHK-RWT60

TEST METHOD 4 SUS


Satin


Paint/ Matte Black



- A stainless steel hook with a thick base and robust hook arm.
- The U-shaped hook makes hanging easy.
- The attached screws have the same finish as the body.

[Applications]
- Hook for both indoor and outdoor use, such as hanging cords for industrial equipment, etc.

[Parts Included]
- Cross-recessed flat head tapping screws 4.1×20 (for stainless steel)

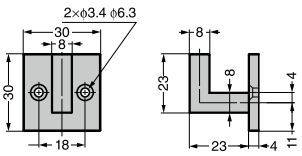
RoHS	CAD	Item Code	Item Name	Finish/Colour	Material	Load Capacity				Box (pcs)	Carton (pcs)
						Flat Horizontal Mounting N	Flat Horizontal Mounting kgf	Top Mounting N	Top Mounting kgf		
G	3D	110-048-705	DFHK-RWT60-SS	Satin	Stainless Steel (SUS304)	250	25.5	100	10.2	8	80
G	3D	110-049-430	DFHK-RWT60-BL	Paint/Matte Black							

STAINLESS STEEL HOOK DFHK-SQ30

TEST METHOD 4 SUS


Satin


Paint/ Matte Black



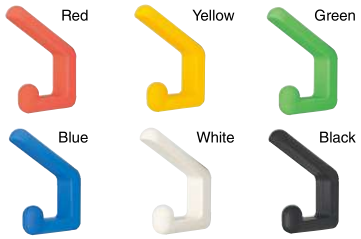
- A compact, simply designed hook with a thick base and precisely shaped hook arm.
- The attached screws have the same finish as the body.

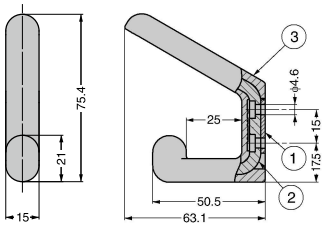
[Parts Included]
- Cross-recessed flat head tapping screws 3.1×20 (for stainless steel)

RoHS	CAD	Item Code	Item Name	Finish/Colour	Material	Load Capacity N	Load Capacity kgf	Box (pcs)	Carton (pcs)
G	3D	110-048-706	DFHK-SQ30-SS	Satin	Stainless Steel (SUS304)	100	10.2	25	250
G	3D	110-049-431	DFHK-SQ30-BL	Paint/Matte Black					

DOUBLE HOOK (RUBBER RANGER SERIES) PXB-GR05-211

TEST METHOD 19





- Simple and safe design.
- Base made of SUS304 provides high-durability.
- Available in a wide range of colours.

[Parts Included]

- Pan head tapping screw 4×32

No.	Part Name	Material	Finish
①	Base Plate	Stainless Steel (SUS304)	Plain
②	Base		
③	Cover	Silicone Rubber (Q)	–

[Set] Hook base + Cover

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-033-287	PXB-GR05-211-RD	Red	100	10.2	78	10	100
G	3D	110-033-288	PXB-GR05-211-YE	Yellow				10	100
G	3D	110-033-289	PXB-GR05-211-GN	Green				10	100
G	3D	110-033-290	PXB-GR05-211-BU	Blue				10	100
G	3D	110-033-291	PXB-GR05-211-WT	White				10	100
G	3D	110-041-366	PXB-GR05-211-BL	Black				10	100

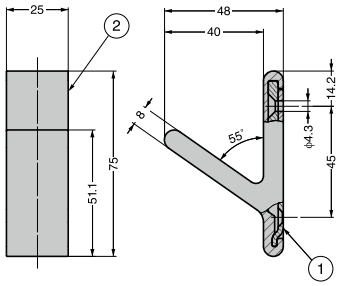
[Cover Only] *Order this when replacing only the cover.

RoHS	CAD	Item Code	Item Name	Colour
G	–	110-036-550	PXB-GR05-211G-RD	Red
G	–	110-036-551	PXB-GR05-211G-YE	Yellow
G	–	110-036-552	PXB-GR05-211G-GN	Green
G	–	110-036-553	PXB-GR05-211G-BU	Blue
G	–	110-036-554	PXB-GR05-211G-WT	White
G	–	110-041-369	PXB-GR05-211G-BL	Black

HOOK (MINI NORDIC RUBBER SERIES) PXB-GN05-111

TEST METHOD 19





- Simple and safe design.
- Base made of SUS304 provides high-durability.
- Designed to fit in all kinds of interior.

[Parts Included]

- Countersunk head tapping screw 4×30

No.	Part Name	Material	Finish
①	Base	Stainless Steel (SUS304)	Plain
②	Cover	Silicone Rubber (Q)	–

[Set] Hook base + Cover

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-033-277	PXB-GN05-111-BE	Beige	80	8.1	93	10	100
G	3D	110-033-278	PXB-GN05-111-BR	Brown				10	100
G	3D	110-033-279	PXB-GN05-111-DG	Dark Grey				10	100

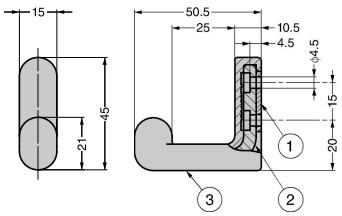
[Cover Only] *Order this when replacing only the cover.

RoHS	CAD	Item Code	Item Name	Colour
–	–	110-036-542	PXB-GN05-111G-BE	Beige
–	–	110-036-543	PXB-GN05-111G-BR	Brown
G	–	110-036-544	PXB-GN05-111G-DG	Dark Grey

HOOK (RUBBER RANGER SERIES) PXB-GR05-111

TEST METHOD 19





- Simple and safe design.
- Base made of SUS304 provides high-durability.
- Available in a wide range of colours.

[Parts Included]

- Pan head tapping screw 4×32

No.	Part Name	Material	Finish
①	Base Plate	Stainless Steel (SUS304)	Plain
②	Base		
③	Cover	Silicone Rubber (Q)	–

[Set] Hook base + Cover

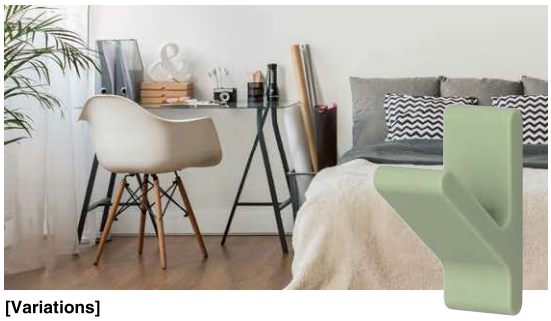
RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-033-282	PXB-GR05-111-LRD	Red	100	10.2	48	10	100
G	3D	110-033-283	PXB-GR05-111-LYE	Yellow				10	100
G	3D	110-033-284	PXB-GR05-111-LGN	Green				10	100
G	3D	110-033-285	PXB-GR05-111-LBU	Blue				10	100
G	3D	110-033-286	PXB-GR05-111-WT	White				10	100
G	3D	110-037-152	PXB-GR05-111-BL	Black				10	100

[Cover Only] *Order this when replacing only the cover.

RoHS	CAD	Item Code	Item Name	Colour
G	–	110-036-545	PXB-GR05-111G-LRD	Red
G	–	110-036-546	PXB-GR05-111G-LYE	Yellow
G	–	110-036-547	PXB-GR05-111G-LGN	Green
G	–	110-036-548	PXB-GR05-111G-LBU	Blue
G	–	110-036-549	PXB-GR05-111G-WT	White
G	–	110-041-368	PXB-GR05-111G-BL	Black

HOOK (MINI NORDIC RUBBER SERIES) PXB-GN05-101

TEST METHOD 19 INSTRUCTION



A design reminiscent of young branches combined with mellow colours, this tasteful design is inspired by the natural spaces of Northern Europe.

- Can be used on plaster board.
- Orders of over 300 pieces (1 lot) can be requested in special colours.

[Parts Included]

- Size 4 x 32 cross-recessed flat head tapping screws, plaster nails, plaster nail fixing parts

[Variations]

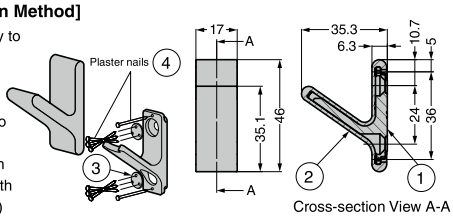


Greyish Pink | Greyish Yellow | Greyish Green | Greyish Blue | Greyish White | Brown | Black

No.	Part Name	Material	Finish
①	Base	Zinc Alloy (ZDC)	Nickel Plating
②	Cover	Silicone Rubber (Q)	Plain
③	Plaster Nail Fixing Parts	AES Resin	
④	Plaster nails	Stainless Steel	

[Installation Method]

Mounts easily to plastic board with plaster nails.
Use screws to mount to surfaces such as wood. (Both are included.)



Cross-section View A-A

[Set]

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	110-034-492	PXB-GN05-101-GPK	Greyish Pink	40 (Screw mount)	4.1 (Screw mount)	39
G	3D	110-034-493	PXB-GN05-101-GYE	Greyish Yellow			
G	3D	110-034-494	PXB-GN05-101-GGN	Greyish Green			
G	3D	110-034-495	PXB-GN05-101-GBU	Greyish Blue	20 (Plaster board mount)	2 (Plaster board mount)	
G	3D	110-034-496	PXB-GN05-101-GWT	Greyish White			
G	3D	110-034-497	PXB-GN05-101-BR	Brown			
–	3D	110-034-498	PXB-GN05-101-BL	Black			

[Cover Only] *Order this when replacing only the cover.

RoHS	CAD	Item Code	Item Name	Colour
G	–	110-037-153	PXB-GN05-101G-GPK	Greyish Pink
G	–	110-037-154	PXB-GN05-101G-GYE	Greyish Yellow
G	–	110-037-155	PXB-GN05-101G-GGN	Greyish Green
G	–	110-037-156	PXB-GN05-101G-GBU	Greyish Blue
G	–	110-037-157	PXB-GN05-101G-GWT	Greyish White
–	–	110-037-158	PXB-GN05-101G-BR	Brown
–	–	110-037-159	PXB-GN05-101G-BL	Black

MAGNETIC HOOK (MINI NORDIC RUBBER SERIES) PXB-GN05M-101

INSTRUCTION



Easy to set and adjust magnet type hook. The Northern European inspired colours add vibrance and life to monotone, dull colored objects like refrigerators and cabinets.

- Orders of over 300 pieces (1 lot) can be requested in special colours.

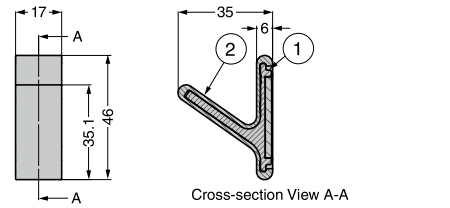
[Remarks]

- Do not slide the body while it is attached as this may damage the surface to which it is attached.
- The load capacity may differ depending on the steel surface to which the product is mounted. Please test the product under actual use conditions before placing items.

[Variations]



Orange | Green Yellow | Navy Blue | Greyish White | Grey



Cross-section View A-A

No.	Part Name	Material	Finish
①	Base	Zinc Alloy (ZDC), Neodymium	Nickel Plating
②	Cover	Silicone Rubber (Q)	Plain

[Set]

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	110-036-555	PXB-GN05M-101-YR	Orange	10	1.1	32
G	3D	110-036-556	PXB-GN05M-101-GY	Green Yellow			
G	3D	110-036-557	PXB-GN05M-101-NB	Navy Blue			
G	3D	110-036-558	PXB-GN05M-101-GWT	Greyish White			
G	3D	110-036-559	PXB-GN05M-101-GR	Grey			

[Cover Only] *Order this when replacing only the cover.

RoHS	CAD	Item Code	Item Name	Colour
G	–	110-037-160	PXB-GN05M-101G-YR	Orange
G	–	110-037-161	PXB-GN05M-101G-GY	Green Yellow
G	–	110-037-162	PXB-GN05M-101G-NB	Navy Blue
G	–	110-037-163	PXB-GN05M-101G-GWT	Greyish White
G	–	110-037-164	PXB-GN05M-101G-GR	Grey

RUBBER HOOK TWIN TYPE PXB-GR05-212

TEST METHOD 19 INSTRUCTION

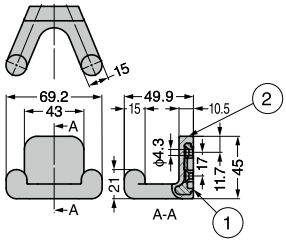


Round-shaped and cute, this hook is covered by soft silicon rubber. It can be used everywhere thanks to its colours that enlight without being too bright.

- After the installation the silicon cover is difficult to remove thanks to it safety-focused internal shape.
- The good load capacity is guaranteed by the stainless steel base.
- MOQ order for custom made colours is only 300 pcs.

[Parts Included]

- Stainless steel countersunk tapping screw 4x32



[Variations]



Bright Red | Bright Yellow | Bright Green | Bright Blue | White | Black

No.	Part Name	Material	Finish
①	Base	Stainless Steel (SCS13)	Plain
②	Cover	Silicon Rubber (Q)	

※SCS13 is the equivalent to SUS304.

[Set] Hook base + Cover

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	110-037-037	PXB-GR05-212-BRD	Bright Red	100	10.2	90.5
G	3D	110-037-038	PXB-GR05-212-BYE	Bright Yellow			
G	3D	110-037-039	PXB-GR05-212-BGN	Bright Green			
G	3D	110-037-040	PXB-GR05-212-BBU	Bright Blue			
G	3D	110-037-041	PXB-GR05-212-WT	White			
G	3D	110-041-367	PXB-GR05-212-BL	Black			

*The load capacity is intended for each arm.

[Cover Only] *Order this when replacing only the cover.

RoHS	CAD	Item Code	Item Name	Colour
G	–	110-037-140	PXB-GR05-212G-BRD	Bright Red
G	–	110-037-141	PXB-GR05-212G-BYE	Bright Yellow
G	–	110-037-142	PXB-GR05-212G-BGN	Bright Green
G	–	110-037-143	PXB-GR05-212G-BBU	Bright Blue
G	–	110-037-144	PXB-GR05-212G-WT	White
G	–	110-041-370	PXB-GR05-212G-BL	Black

PLASTIC HOOK HK-CM40

TEST METHOD 4

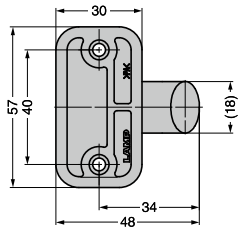


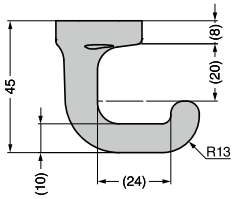
*The colours can be different from the picture, please check the product.

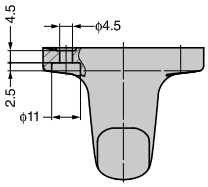
- Plastic hook with a wide colour variation.
- Can be both wall-mounted or ceiling-mounted.

[Parts Included]

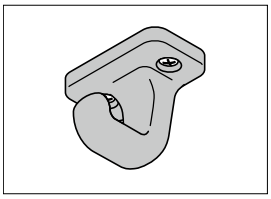
- Pan head tapping screw 4x20

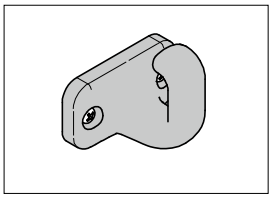






[Installation Examples]

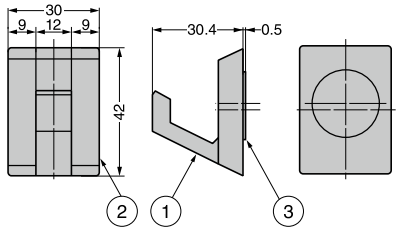




RoHS	CAD	Item Code	Item Name	Colour	Material	Load Capacity				Weight	Box	Carton
						Side Mount (N)	Side Mount (kgf)	Under/Ceiling Mount (N)	Under/Ceiling Mount (kgf)	(g)	(pcs)	(pcs)
G	3D	110-036-818	HK-CM40-DG	Dark Grey	PA	78	8	78	8	24	12	120
G	3D	110-036-819	HK-CM40-BR	Brown								
G	3D	110-036-820	HK-CM40-WT	White								
G	3D	110-036-821	HK-CM40-BBU	Bright Blue								
G	3D	110-036-822	HK-CM40-BRD	Bright Red								

MAGNETIC HOOK MJ-30





- Hard-edged design.
- The magnet covered with silicone prevents from scratching the wall.
- Easy to remove by pulling down the hook tip toward you.

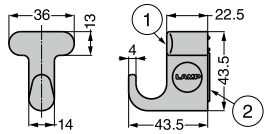
[Remarks]
- Load capacity varies depending on the finished state of the steel sheet adsorbed. Please verify before use.

No.	Part Name	Material	Finish
①	Hook	Aluminium Alloy	Matter Anodised
②	Body	ABS	White
③	Magnet	Neodymium	–

RoHS	CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-421	MJ-30	9.8	1	28	20	400

MAGNETIC HOOK MJ-45





- Prevents from slipping down by arranging two magnets in a T shape.
- Three colours available for the body. Please select the colour according to the usage places such as desk, locker, refrigerator, car, etc.

[Remarks]
- Do not move the body in the adsorbed state to avoid scratching the adsorption surface.
- Load capacity varies depending on the finished state of the steel sheet adsorbed. Please verify before use.

No.	Part Name	Material	Colour
①	Body	ABS	Ivory/Orange/Brown
②	Yoke	Steel (SPCC)	–

RoHS	CAD	Item Code	Item Name	Colour	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-051-070	MJ-45I	Ivory	19.6	2	58	20	240
G	3D	110-051-071	MJ-45RA	Orange				20	240
G	3D	110-051-073	MJ-45BR	Brown				20	240

LARGE UTILITY HOOK 4H

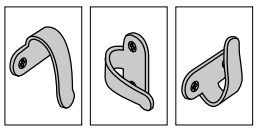
TEST METHOD 4 SUS

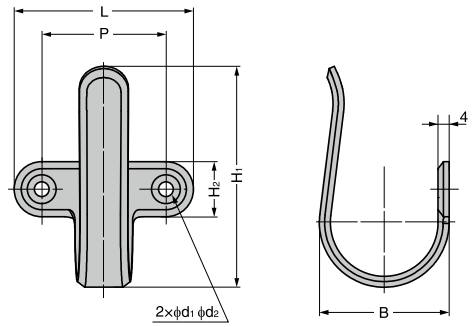


- Chamfered design.
- Can be used in various ways, such as pulls, wall hooks and cloth hangers, etc.
- Two types of finishes available.

[Parts Included]
- 4H-40, 4H-55 : Raised countersunk head wood screw 4.1×16 (SUS)
- 4H-65 : Raised countersunk head wood screw 5.1×20 (SUS)

[Application Example]





RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	H1	H2	B	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-028-559	4H-40M	Stainless Steel (SUS304)	Polished	40	27	47	13	30	4.4	8.4	290	30	43	20	200
G	3D	110-028-560	4H-40TT		Polished and Satin										44	20	200
G	3D	110-028-561	4H-55M		Polished	55	38	65	17	40			260	27	80	15	150
G	3D	110-028-562	4H-55TT		Polished and Satin										81	15	150
G	3D	110-028-563	4H-65M		Polished	65	45	80	20	47	5.4	10.4	170	17	119	10	100
G	3D	110-028-564	4H-65TT		Polished and Satin										120	10	100

HOOK 4HJU-40M

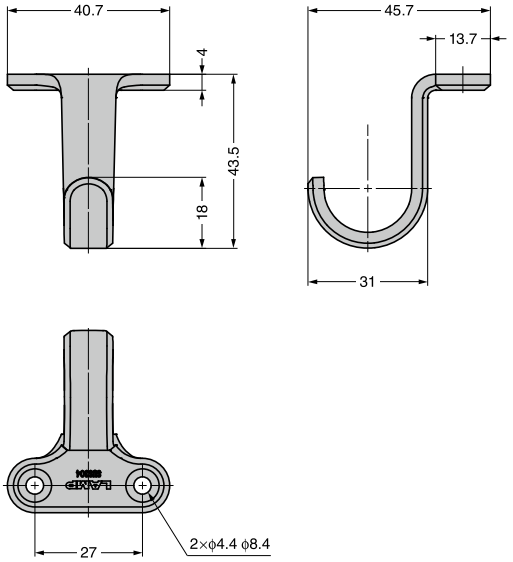
TEST METHOD 4 SUS



●Chamfered edge provides safety and smart design.

[Parts Included]

●Countersunk head tapping screw 4×25 (Stainless Steel)



RoHS	CAD	Item Code	Item Name	Material	Finish / Colour	Load Capacity N	Load Capacity kgf	Weight g	Box (pcs)	Carton (pcs)
G	3D	110-041-004	4HJU-40M	Stainless Steel (SUS304)	Mirror	150	15.3	42.5	20	200

HOOK 5HJU-60M

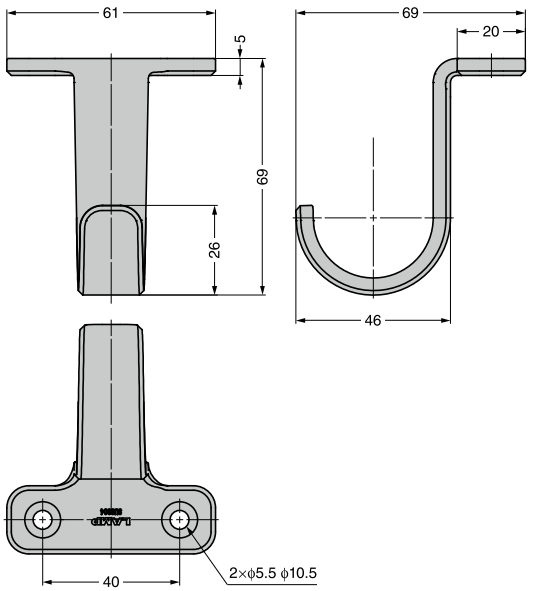
TEST METHOD 4 SUS



●Chamfered edge provides safety and smart design.

[Parts Included]

●Countersunk head tapping screw 4×25 (Stainless Steel)



RoHS	CAD	Item Code	Item Name	Material	Finish / Colour	Load Capacity N	Load Capacity kgf	Weight g	Box (pcs)	Carton (pcs)
G	3D	110-041-005	5HJU-60M	Stainless Steel (SUS304)	Mirror	200	20.4	130	20	200

LARGE UTILITY HOOK 5H

TEST METHOD 4 SUS

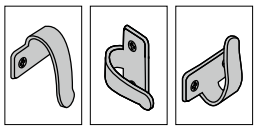


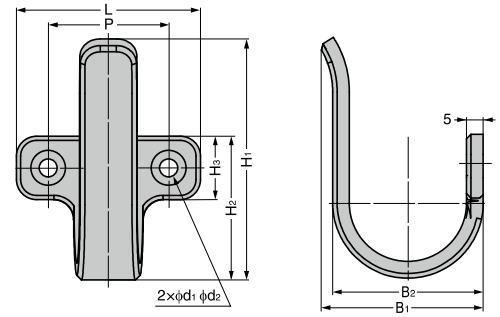
- Chamfered design.
- Can be used in various ways, such as pulls, wall hooks and cloth hangers, etc.
- Two types of finish available.

[Parts Included]

- 5H-45 : Raised countersunk head wood screw 4.1×20 (SUS)
- 5H-60 : Raised countersunk head wood screw 5.1×25 (SUS)
- 5H-85 : Raised countersunk head wood screw 5.8×25 (SUS)

[Application Example]





RoHS	CAD	Item Code	Item Name	Material	Finish	L	P	H1	H2	H3	B1	B2	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-028-553	5H-45M	Stainless Steel (SUS304)	Polished	45	30	56	34.5	15	37.9	32.5	4.5	9	370	38	74	20	160
G	3D	110-028-554	5H-45TT		Polished and Satin													20	160
G	3D	110-028-555	5H-60M		Polished	60	40	72.7	43.4	19	47.7	43.5	5.5	10.5	350	36	132	10	100
G	3D	110-028-556	5H-60TT		Polished and Satin													10	100
G	3D	110-028-557	5H-85M		Polished	85	60	94	60.6	25	66.7	58.2	6.5	12.4	330	34	237	5	50
G	3D	110-028-558	5H-85TT		Polished and Satin												238	5	50

LARGE UTILITY HOOK XL-SF

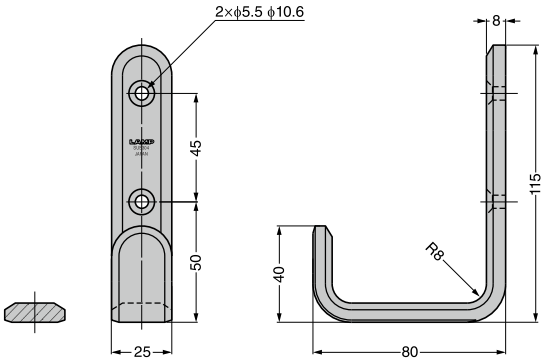
TEST METHOD 4 SUS



- Chamfered design.

[Parts Included]

- Raised countersunk head tapping screw 5×30 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-142	XL-SF-115-S	Stainless Steel (SUS304)	Satin	360	39	280	4	24
G	3D	110-020-143	XL-SF-115-M		Polished				4	24

LARGE UTILITY HOOK XL-CUJ

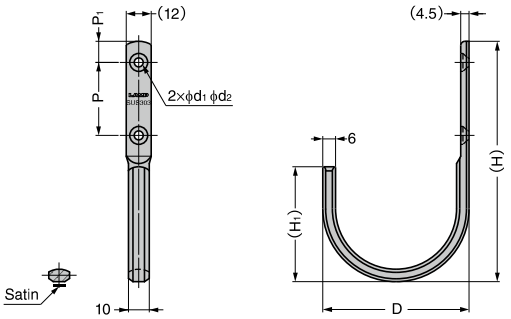
TEST METHOD 4 SUS



- Finish: Combination of Polished and satin.
- Large hook XL-CUF 1 with the same combination finish also available.

[Parts Included]

- XL-CUJ45TT : Raised countersunk head tapping screw 3.5×20 (SUS)
- XL-CUJ70TT : Raised countersunk head tapping screw 4×20 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	D	H	H1	P	P1	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-012	XL-CUJ45TT	Stainless Steel (SUS303)	Polished/ Satin	46	75	36	20	8.5	3.8	7.2	200	20	54	20	120
G	3D	110-020-013	XL-CUJ70TT			72	112	56	35	10	4.3	8.6	138	14	84	10	60

Refer to 1 : P.741

LARGE UTILITY HOOK XL-CUF

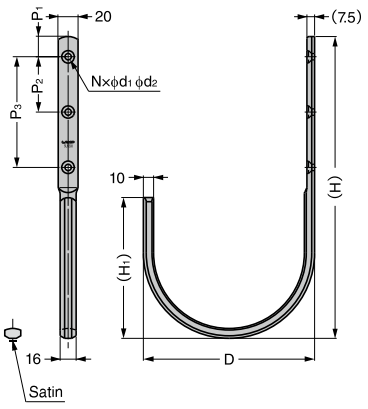
TEST METHOD 4 SUS



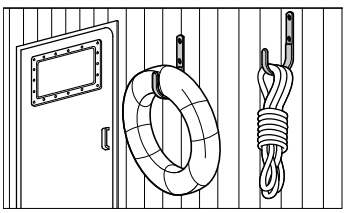
- Easy to hang big items.
- Finish: Combination of Polished and satin.
- Small hook XL-CUJ 1 with the same combination finish also available.

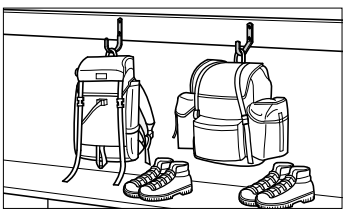
[Parts Included]

- XL-CUF110TT: Raised countersunk head tapping screw 5×30 (SUS)
- XL-CUF170TT: Raised countersunk head tapping screw 6×30 (SUS)



[Application Example]





RoHS	CAD	Item Code	Item Name	Material	Finish	D	H	H1	P1	P2	P3	N	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-014	XL-CUF110TT	Stainless Steel (SUS303)	Polished/ Satin	112	198	91	17	–	70	2	5.2	10.5	314	32	362	5	30
G	3D	110-020-015	XL-CUF170TT			173	300	138.5	20	55	110	3	6.2	12.5	147	15	569	5	20

Refer to 1 : P.741

LARGE UTILITY HOOK JF45M, JF70M, JF110M

NSF TEST METHOD 4 SUS

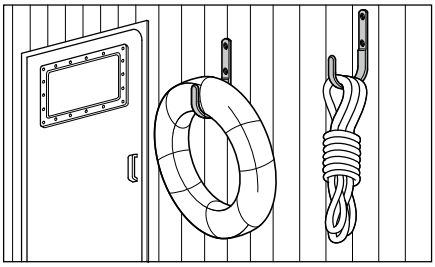


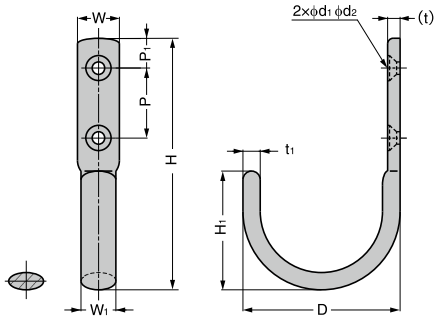
- Easy to hang big items.
- Polished finish.

[Parts Included]

- JF45M : Raised countersunk head wood screw 3.5×16 (SUS)
- JF70M : Raised countersunk head wood screw 4.1×20 (SUS)
- JF110M : Raised countersunk head wood screw 5.1×32 (SUS)

[Application Example]

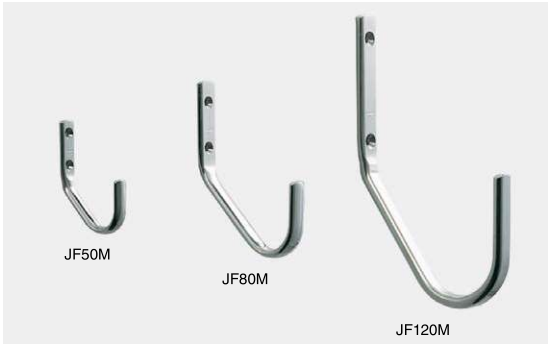




RoHS	CAD	Item Code	Item Name	Material	Finish	D	W	W1	H	H1	P	P1	t	t1	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-035-513	JF45M	Stainless Steel (SUS303)	Polished	45	12	10	72	34	20	8.5	3.5	5	3.8	7.2	98	10	40	20	120
G	3D	110-035-515	JF70M			68	16	13	120	55	35	15	4	6	4.3	8.6			95	6	36
G	3D	110-020-073	JF110M			110	18	14	200	90	70	17	5.5	8	5.3	10.6	150	15	270	5	30

LARGE UTILITY HOOK JF50M, JF80M, JF120M

NSF TEST METHOD 4 SUS

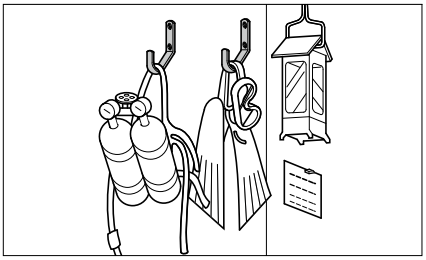


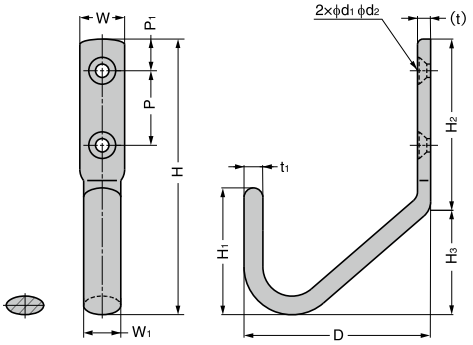
- Easy to hang big items.
- Polished finish.

[Parts Included]

- JF50M : Raised countersunk head wood screw 3.5×16 (SUS)
- JF80M : Raised countersunk head wood screw 4.1×20 (SUS)
- JF120M : Raised countersunk head wood screw 5.1×32 (SUS)

[Application Example]





RoHS	CAD	Item Code	Item Name	Material	Finish	D	W	W1	H	H1	H2	H3	P	P1	t	t1	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-035-514	JF50M	Stainless Steel (SUS303)	Polished	50	12	10	74	34	46	28	20	8.5	3.5	5	3.8	7.2	150	15	40	20	120
G	3D	110-035-516	JF80M			80	16	13	115	50	65	50	30	15	4	6	4.3	8.6	196	20	95	6	36
G	3D	110-020-074	JF120M			120	18	14	200	90	112	88	70	17	5.5	8	5.3	10.6	216	22	260	5	30

LARGE ALUMINIUM HOOK HK-AJ100

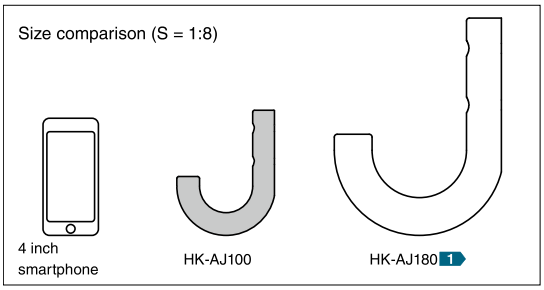
TEST METHOD 19

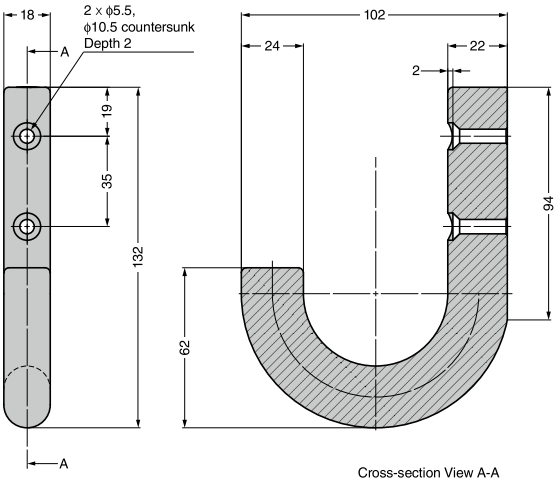


- A very large hook for hanging large items that would otherwise have been set on the floor.
- Thick aluminium piece which bends at its thickest end.

[Parts Included]

- Size 5 x 50 cross-recessed flat head tapping screws





RoHS	CAD	Item Code	Item Name	Material	Finish/Colour	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)
G	3D	110-041-192	HK-AJ100-SL	Aluminium	Anodised/Matte Silver	200	20.4	202	1
G	3D	110-041-193	HK-AJ100-BL		Anodised/Matte Black				1

Refer to 1 : P.743

GIANT ALUMINIUM HOOK HK-AJ180

TEST METHOD 19



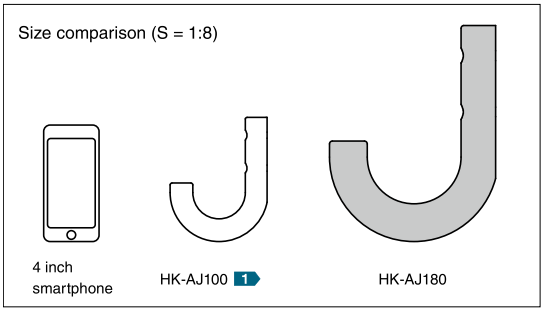
- Hook with a profile depth of almost 180 mm.
- Thick aluminium piece which bends on its thickest side.

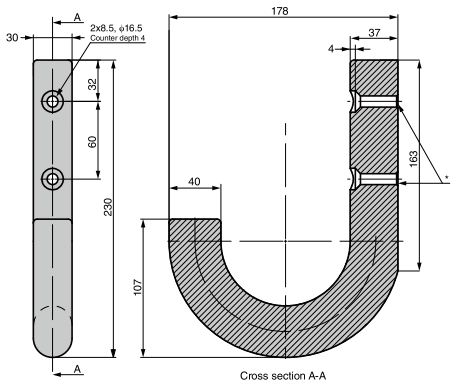
[Remarks]

- The load capacity stands for strength of the hook itself. Actual load capacity also depends on wall materials and strength.
- Surface colour of installation side may discolour. This does not affect the performance.

[Parts Included]

- Cross-recessed countersunk tapping screw 8 x 90
- Lock plug (screw diameter: ϕ8 / drill diameter: ϕ10 / length: 50)





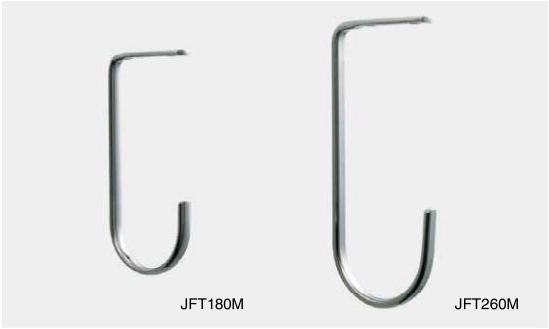
*The hole is not for a mounting screw.

RoHS	CAD	Item Code	Item Name	Material	Finish / Colour	Load Capacity N	Load Capacity kgf	Weight (g)
G	3D	110-044-096	HK-AJ180-SL	Aluminium Alloy	Anodized / Matte Silver	1000	102	954
G	3D	110-044-097	HK-AJ180-BL		Anodized / Matte Black			

Refer to 1 : P.743

LARGE UTILITY HOOK JFT180M, JFT260M For Ceiling Mount

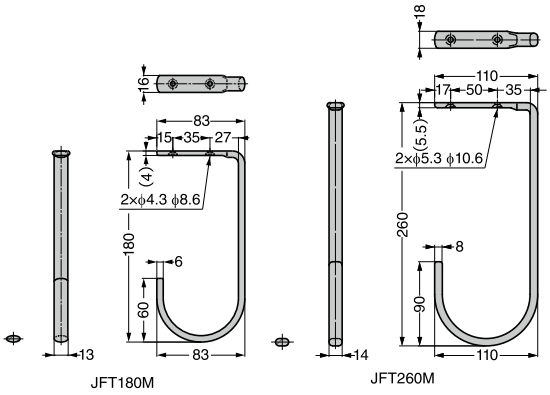
NSF TEST METHOD 4 SUS



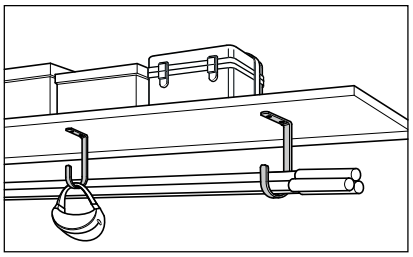
- Easy to hang big items.
- Polished finish.

[Parts Included]

- JFT180M : Raised countersunk head wood screw 4.5×25 (SUS)
- JFT260M : Raised countersunk head wood screw 5.1×38 (SUS)



[Application Example]



RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-020-080	JFT180M	Stainless Steel (SUS303)	Polished	98	10	180	5	30
G	3D	110-020-081	JFT260M			147	15	380	5	30

LARGE UTILITY HOOK XL-SB Large Hat Hook

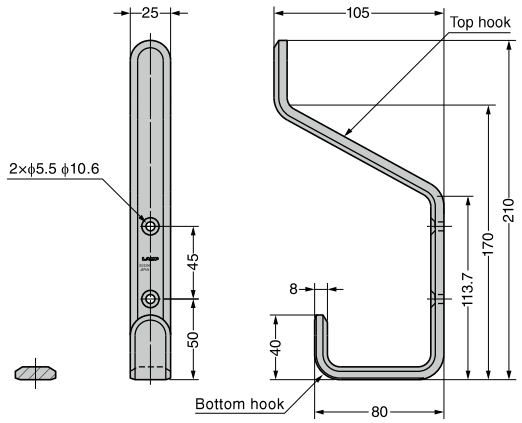
TEST METHOD 19 SUS



- Chamfered design.

[Parts Included]

- Raised countersunk head tapping screw 5×30 (SUS)



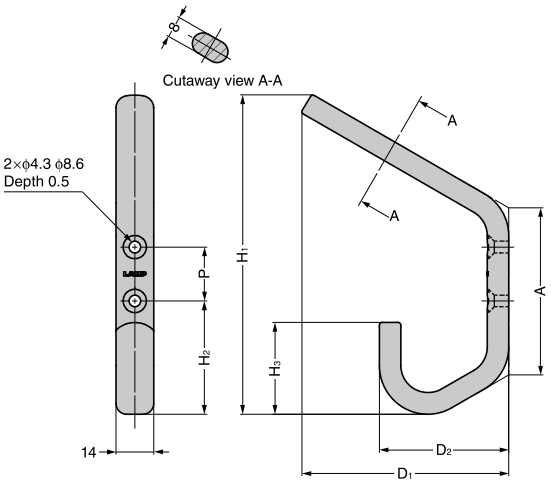
RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity				Weight (g)	Box (pcs)	Carton (pcs)
						Top Hook N	Top Hook kgf	Bottom Hook N	Bottom Hook kgf			
G	3D	110-020-144	XL-SB-210-S	Stainless Steel (SUS304)	Satin finish	200	20	380	39	500	2	12
G	3D	110-020-145	XL-SB-210-M		Polished						2	12

LARGE UTILITY HOOK JF1B

TEST METHOD 19 SUS



[Parts Included]
- Countersunk head tapping screw 4×32 (SUS)



RoHS	CAD	Item Code	Item Name	Material	H1	H2	D1	D2	P	A	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-033-760	JF1B-80M	Stainless Steel	118.5	42	76.5	48	20	62	Mirror	100	10.2	155	5	40
G	3D	110-033-761	JF1B-90M	(SUS303)	138.5	46	87.6	56	26	71.5				180	5	40

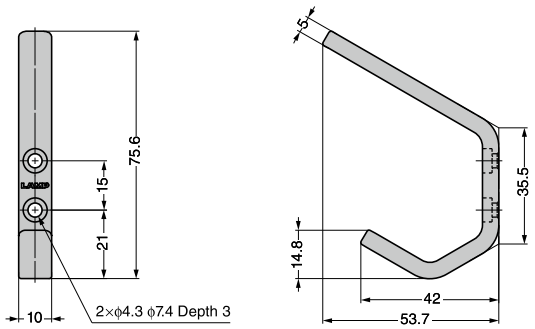
LARGE UTILITY HOOK JF2B-55M

TEST METHOD 19 SUS



- Suitable for modern style space.
- Large size hook made of stainless steel
- Allows big items such as marine hose to be hung outdoors.

[Parts Included]
- Pan head tapping screw 4x32 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-033-274	JF2B-55M	Stainless Steel (SUS304)	Polished	100	10.2	50	20	120

STAINLESS STEEL BIG HOOK DFHK-BJ

TEST METHOD 4 SUS


DFHK-BJ90-SH


DFHK-BJ135-SH

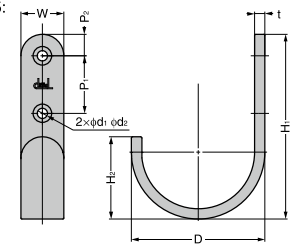

DFHK-BJ165-BL

●The simple shape made of robust stainless steel harmonizes with a variety of spaces.

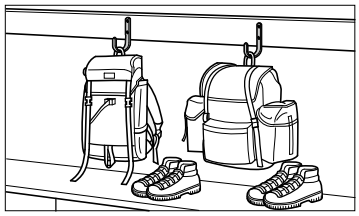
[Applications]
●Hook for both indoor and outdoor use, such as hanging cords for industrial equipment, etc.

[Remarks]
●The load capacity value indicates the strength of the hook itself and may vary according to the installation wall surface or housing material. Install in a location with sufficient strength or reinforcement.

[Parts Included]
●DFHK-BJ90: Cross-recessed flat head tapping screws 4×30 (for stainless steel)
●DFHK-BJ135, DFHK-BJ165: Cross-recessed flat head tapping screws 5×30 (for stainless steel)
●The screw heads have the same finish as the hook.



[Application Example]



RoHS	CAD	Item Code	Item Name	Material	Finish/ Colour	D	W	H1	H2	P1	P2	t	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-051-085	DFHK-BJ90-SH	Stainless Steel (SUS304)	Satin	65	21	90	40	28	10.5	5	5	9	200	20.4	126	8	80
–	3D	110-051-086	DFHK-BJ90-BL		Paint/Matte Black													8	80
G	3D	110-051-087	DFHK-BJ135-SH		Satin	100	23	135	60	38	15	6	6	11			256	4	40
–	3D	110-051-088	DFHK-BJ135-BL		Paint/Matte Black													4	40
G	3D	110-051-089	DFHK-BJ165-SH		Satin	125	25	165	75	55					150	15.3	349	4	32
–	3D	110-051-090	DFHK-BJ165-BL		Paint/Matte Black													4	32

STAINLESS STEEL BIG HOOK DFHK-BJL Long Type

TEST METHOD 4 SUS


DFHK-BJL200-SH


DFHK-BJL275-SH

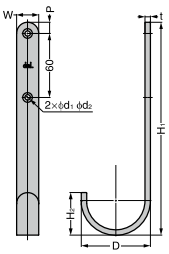

DFHK-BJL335-BL

●The simple shape made of robust stainless steel harmonizes with a variety of spaces.

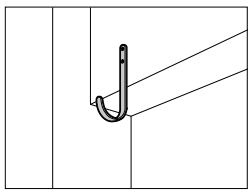
[Applications]
●Hook for both indoor and outdoor use, such as hanging cords for industrial equipment, hanging in high places such as beams, etc.

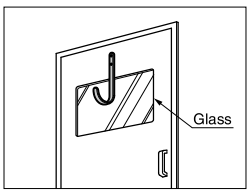
[Remarks]
●The load capacity value indicates the strength of the hook itself and may vary according to the installation wall surface or housing material. Install in a location with sufficient strength or reinforcement.

[Parts Included]
●DFHK-BJL200: Cross-recessed flat head tapping screws 4×30 (for stainless steel)
●DFHK-BJL275, DFHK-BJL335: Cross-recessed flat head tapping screws 5×30 (for stainless steel)
●The screw heads have the same finish as the hook.



[Application Example]





RoHS	CAD	Item Code	Item Name	Material	Finish/Colour	D	W	H1	H2	P	t	d1	d2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-051-091	DFHK-BJL200-SH	Stainless Steel (SUS304)	Satin	65	21	200	40	10.5	5	5	9	200	20.4	219	4	32
–	3D	110-051-092	DFHK-BJL200-BL		Paint/Matte Black												4	32
G	3D	110-051-093	DFHK-BJL275-SH		Satin	100	23	275	60	15	6	6	11			412	4	32
–	3D	110-051-094	DFHK-BJL275-BL		Paint/Matte Black												4	32
G	3D	110-051-095	DFHK-BJL335-SH		Satin	125	25	335	75					150	15.3	544	4	16
–	3D	110-051-096	DFHK-BJL335-BL		Paint/Matte Black												4	16

PANEL HANGER AUH



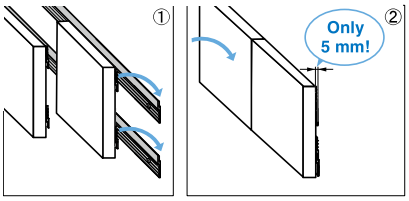
- Panel can be easily attached/detached without tools.
- Distance to wall is only 5 mm.
- Continuous panels can also be installed easily.
- Can prevent warping of large size panels.
- Mounting holes can be set in the groove of screw guide (see drawing).

[Applications]
- Exhibition panels, paintings, furniture.

[Remarks]
- Be sure to install panel to wall made from strong materials.
- Actual load capacity varies depending on use conditions.
  The load capacity in the catalog is based on the conditions below.
  - Numbers of AUH: 2 pcs
  - Length : 700mm
  - Distance between 2 AUH : 780mm
  - Panel Height : 900mm
  - Panel Length : 700mm
  - Panel Thickness : 25mm

[Recommended Screws]
- Countersunk head tapping screw 4

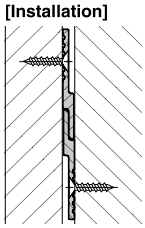
[Panel Installation]



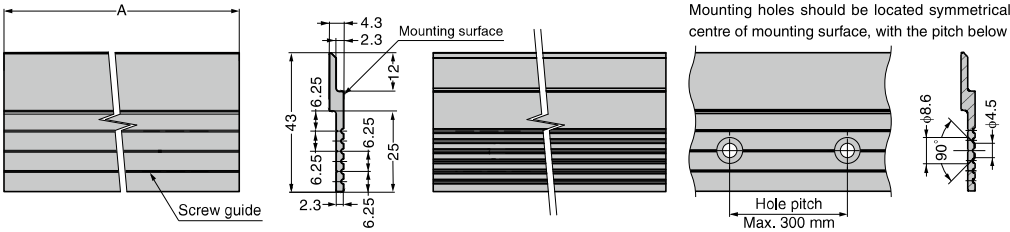
[Example]



[Installation]



[Cut Out Dimensions]
Mounting holes should be located symmetrically to the centre of mounting surface, with the pitch below 300mm.



RoHS	CAD	Item Code	Item Name	A	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	110-021-888	AUH-900	900	Aluminium Alloy	Anodised Silver	294.2	30	35	10	—
G	3D	110-023-958	AUH-2700	2700					700	10	—

PANEL CATCH AUH-C70 For Panel Hanger "AUH"

SUS

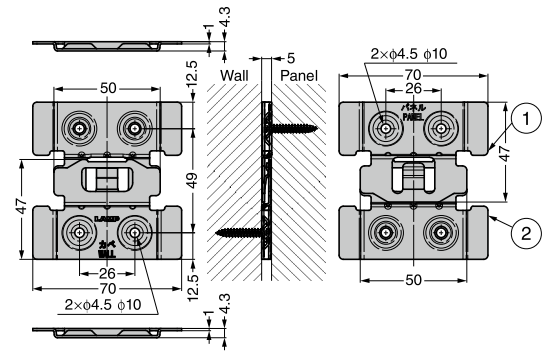


- Holds panels hanged with the AUH in place.
  This catching function prevents panels from moving or falling even when bumped.
- Specially designed for use with the AUH panel hanger.
- The correct mounting position can be found by simply aligning with the AUH.

[Remarks]
- Please make sure that the panel is not subject to a pulling force when using the AUH-C70 without the AUH.
- Recommended quantity per panel: two
- The retaining force may vary. Please confirm with actual products before use.

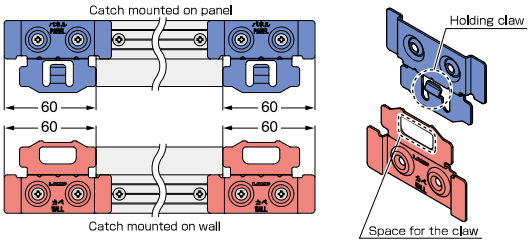
[Recommended Screw]
- Cross-recessed countersunk head tapping screw 4

Video Link



No.	Part Name	Material	Finish/Colour
①	Catch mounted on panel	Stainless Steel (SUS304)	Barrel Polished
②	Catch mounted on wall		

[Drawing] when using two AUH-C70 and AUH



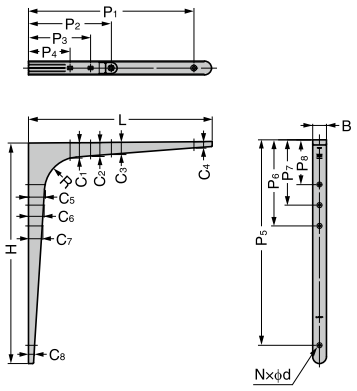
RoHS	CAD	Item Code	Item Name	Retaining Force N	Retaining Force kgf	Load Capacity N*	Load Capacity kgf*	Weight (g)
G	3D	110-044-905	AUH-C70	50	5.1	100	10.2	41

* The load capacity is a value when using the AUH-C70 alone. When using with the AUH, please see the load capacity of the AUH.

BRACKET BT, BTK

NSF TEST METHOD 6 SUS





- Strong and safe structure.
- Can be used as reinforcement or connecter in the corner as well.
- BT is made of stainless steel, suitable for corrosive environments.
- BTK is made of steel, with three colours available: White, black and umber.

[Remarks]

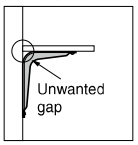
- To prevent inclination due to the load when using as a shelf bracket, the opening angle is slightly more than 90°. Please check with actual item.

[Parts Included]

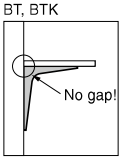
- Raised countersunk head wood screw

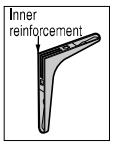
	Material	Finish / Colour	Screw
BT (Satin)	Stainless Steel (SUS304)	Satin	Stainless Steel
BTK (White)	Steel (SECC)	White Powder Coating	White Enamel Finish
BTK (Black)		Black Powder Coating	Black Enamel Finish
BTK (Umber)		Umber Enamel Finish	Umber Enamel Finish

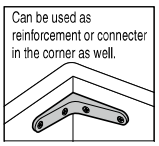
Conventional bracket



BT, BTK





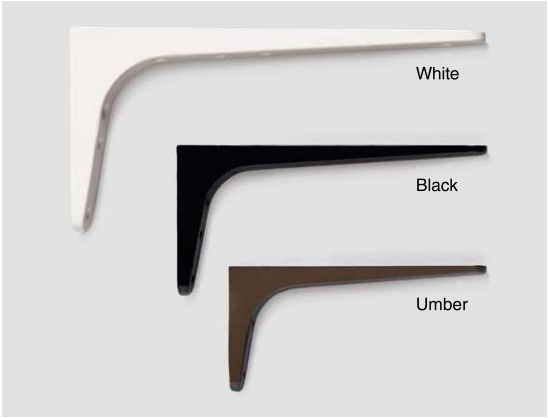


RoHS	CAD	Item Code	Item Name	Finish / Colour	H	L	B	P1	P2	P3	P4	P5	P6	P7	P8	Load Capacity N/pc	Load Capacity kgf/pc	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-078	BT-85	Satin	86	69	15	58	27	–	–	75	26	–	–	147	15	45	20	240
G	3D	120-030-093	BTK-85W	White														46	20	240
G	3D	120-030-172	BTK-85B	Black														46	20	240
–	3D	120-030-189	BTK-85UM	Umber														46	20	240
G	3D	120-030-079	BT-120	Satin	120	100		85	43			106	42			196	20	64.4	20	100
G	3D	120-030-094	BTK-120W	White														63	20	100
G	3D	120-030-173	BTK-120B	Black														68.3	20	100
G	3D	120-030-190	BTK-120UM	Umber														62	20	100
G	3D	120-030-080	BT-180	Satin	180.5	148.5		131	71	50	–	162.5	72.5	51.5	–	245	25	123	20	–
G	3D	120-030-095	BTK-180W	White														124	20	–
G	3D	120-030-174	BTK-180B	Black														127	20	–
G	3D	120-030-191	BTK-180UM	Umber														122	20	–
G	3D	120-030-081	BT-240	Satin	240	199	18	176	91	59		217	92	60		274.4	28	221	10	–
G	3D	120-030-096	BTK-240W	White														237	10	–
G	3D	120-030-175	BTK-240B	Black														234	10	–
G	3D	120-030-192	BTK-240UM	Umber														232	10	–
G	3D	120-030-082	BT-300	Satin	301	238.5	20	206.5	92.5	60.5		269	95	63		343	35	307	10	–
G	3D	120-030-097	BTK-300W	White														323	10	–
G	3D	120-030-176	BTK-300B	Black														323	10	–
–	3D	120-030-193	BTK-300UM	Umber														323	10	–
G	3D	120-030-083	BT-380	Satin	378	318	23	285	145	110	75	345	145	110	75	637	65	519	10	40
G	3D	120-030-085	BTK-380W	White														519	10	–
G	3D	120-030-177	BTK-380B	Black														519	10	–
–	3D	120-030-194	BTK-380UM	Umber														519	10	–
G	3D	120-030-155	BT-480	Satin	480	400	30	360	180	135	90	440	180	135	90	808.5	82.5	1200	6	–
G	3D	120-030-156	BTK-480W	White														1230	6	–
G	3D	120-030-178	BTK-480B	Black														1220	6	–
–	3D	120-030-195	BTK-480UM	Umber														1329	6	–

Item Name	d	Holes N	Weight	C1	C2	C3	C4	C5	C6	C7	C8	R	Screw (Countersunk Head Wood Screw)
BT-85	4	4	40	–	–	(9)	(5)	–	–	(12)	(5)	(25)	3.5×16 (3 pcs), 3.5×25 (1 pc)
BTK-85													
BT-120			60			(10)				(13)			
BTK-120													
BT-180		6	110		(14)	(12)			(15)			(30)	3.5×16 (2 pcs), 3.5×20 (1 pc), 3.5×25 (1 pc), 3.8×32 (2 pcs)
BTK-180													
BT-240			200		(16)	(13)	(8)		(16)	(14)	(7.5)	(35)	
BTK-240													
BT-300			310		(19.5)	(17)			(19)	(17.5)	(9)		3.5×16 (1 pc), 3.5×25 (2 pcs), 3.5×32 (1 pc), 3.8×38 (2 pcs)
BTK-300													
BT-380	5	8	470	(22.5)	(20)	(18)	(8.5)	(25)	(20)	(18)	(10)	(50)	3.5×20 (1 pc), 3.8×32 (3 pcs), 4.5×25 (1 pc), 4.5×38 (2 pcs), 4.5×45 (1 pc)
BTK-380													
BT-480	5.5		1100	(35)	(30)	(27)	(14)	(37)	(33)	(30)	(13)	(70)	5×30 (2 pcs), 5×40 (2 pcs), 5×50 (3 pcs), 5×60 (1 pc)
BTK-480													

BRACKET BTK-UB Compact Type

TEST METHOD 6



- Height is less than half of that of bracket BTK 1. Compact design with short wall mount surface.
- Maximises space under the top board.
- Strong and safe design.
- With reinforcement rubber to prevent from sinking into the wall of plasterboard.
- Perfectly fits at the corner.

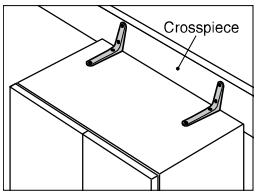
[Remarks]

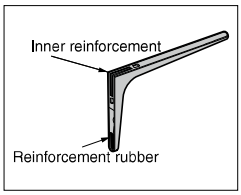
- To prevent inclination due to the load when using as a shelf bracket, the opening angle is slightly more than 90°. Please check with actual item.

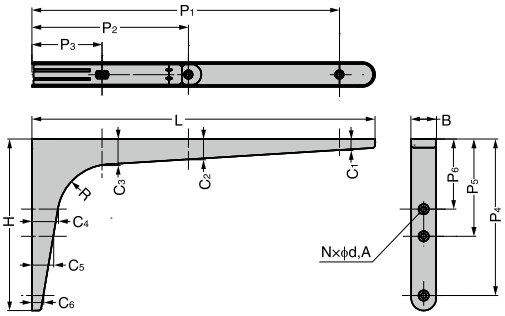
[Parts Included]

- Raised countersunk head wood screw

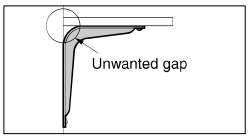
[For Fall Prevention]



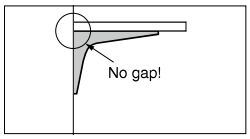


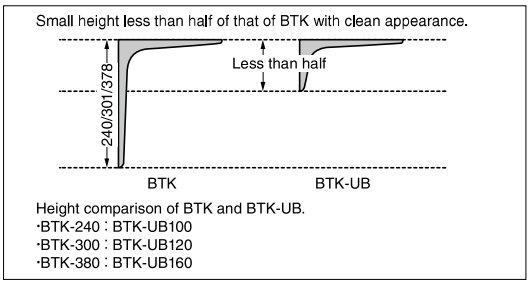


Conventional bracket



BTK-UB





Part Name	Material	Finish / Colour	Countersunk Head Wood Screw (Head Only)
BTK-UB (White)	Steel	White Powder Coating	White Enamel Finish
BTK-UB (Black)		Black Powder Coating	Black Enamel Finish
BTK-UB (Umber)		Umber Enamel Finish	
Reinforcement Rubber	Rubber (EPM)	–	

[Body]

RoHS	CAD	Item Code	Item Name	Colour	H	L	B	P_1	P_2	P_3	P_4	P_5	P_6	Load Capacity N/pc	Load Capacity kgf/pc	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	120-033-596	BTK-UB100W	White	99.5	199	18	176	91	45	85	45	–	117.6	12	171	10	–
–	3D	120-033-597	BTK-UB100B	Black													10	–
–	3D	120-033-598	BTK-UB100UM	Umber													10	–
–	3D	120-033-599	BTK-UB120W	White	119.5	238.5	20	206.5	92.5		105.5	71.5	45	196	20	232	10	–
–	3D	120-033-600	BTK-UB120B	Black													10	–
–	3D	120-033-601	BTK-UB120UM	Umber													10	–
–	3D	120-033-602	BTK-UB160W	White	159	318	23	285	145	65	145	91	65	245	25	382	10	–
G	3D	120-033-603	BTK-UB160B	Black													10	–
–	3D	120-033-604	BTK-UB160UM	Umber													10	–

Item Name	d	Holes N	Weight (g)	A	C_1	C_2	C_3	C_4	C_5	C_6	R	Screw (Countersunk Head Wood Screw)
BTK-UB100	4	5	170	8	(7)	(14)	(19)	(12)	–	(10)	(35)	3.5×16 (1 pc) 3.5×25 (1 pc) 3.8×32 (2 pcs) 3.8×38 (1 pc)
BTK-UB120		6	230		(8)	(16)	(21)	(21.5)	(18)			3.5×16 (1 pc) 3.5×25 (1 pc) 3.5×32 (2 pcs) 3.5×38 (1 pc) 3.5×45 (1 pc)
BTK-UB160	5		380	10	(9)	(19.5)	(24.5)	(25)	(22)		(52)	3.5×20 (1 pc) 3.8×32 (1 pc) 3.8×38 (1 pc) 4.5×25 (1 pc) 4.5×45 (2 pcs)

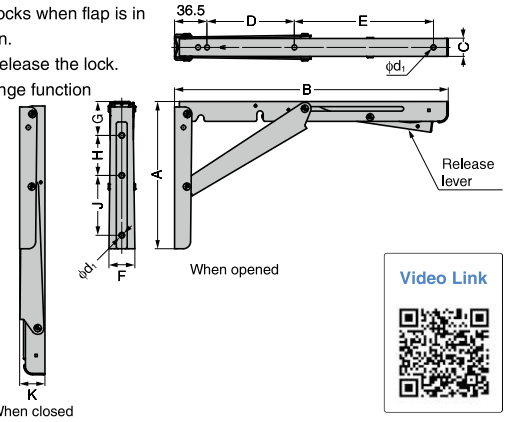
Refer to 1 : P.748

FOLDING BRACKET EB

TEST METHOD 6 | LOAD CAPACITY 150~200 kgf | NSF | SUS



- Automatically locks when flap is in opened position.
- Press lever to release the lock.
- Bracket with hinge function in one unit.



Video Link

Item Name	A	B	C	D	E	F	G	H	J	K	d1
EB-200	116	201	20	155	–	29	21	80	–	28.5	5.6
EB-303	165	307		98	156		38	45	67		
EB-317	171	318.5	24			36				30	6

RoHS	CAD	Item Code	Item Name	Old Item Name	Material	Finish	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)
G	3D	120-039-843	EB-200	EB-200/EP	Stainless Steel (SUS304)	Mirror	1716	175	332	20
G	3D	120-048-895	EB-200-BL	–		Black				20
G	3D	120-039-844	EB-303	EB-303/EP		Mirror	1471	150	500	20
G	3D	120-048-896	EB-303-BL	–		Black				20
G	3D	120-039-845	EB-317	EB-317/EP		Mirror	1961	200	750	20
G	3D	120-048-897	EB-317-BL	–		Black				20

*The item names have been changed. The new version will come with a end cap and back plate.
Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

DAMPER FOR EB FOLDING BRACKET EBD

Lapcon | INSTRUCTION



- Designed for EB folding bracket.
- Lapcon mechanism prevents shelf from sudden drop.
- Installation position can be easily determined with the supplied template.

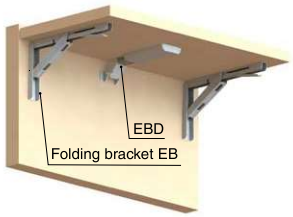
[Remarks]
- Make sure to have sufficient mounting surface strength.
- Please completely close shelf board with hands.
- Shelf board must be assembled to the arm with release lever.

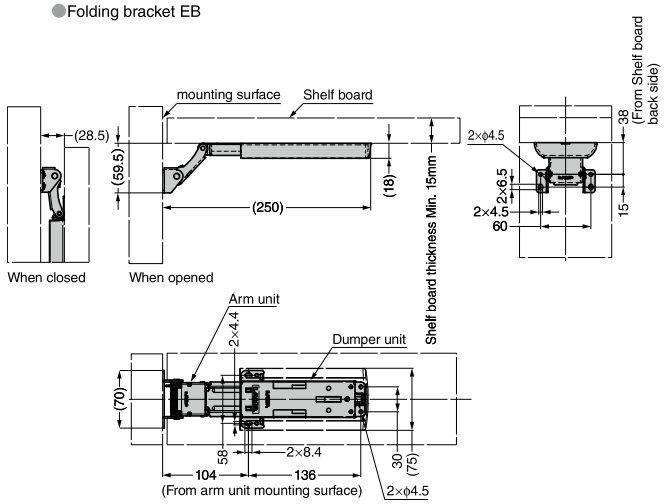
[Parts Included]
- Binding head tapping screw 4×16
- Template

[Sold Separately]
- Folding bracket EB

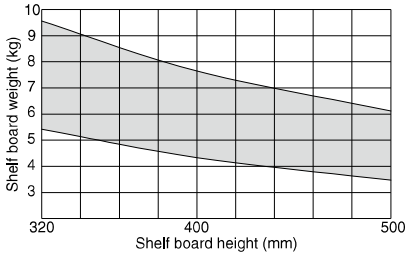
Video Link

[Application Example]





[Shelf board Size Range]



RoHS	CAD	Item Code	Item Name	Material	Finish	Maximum Door Moment N·m	Maximum Door Moment kgf·cm	Flap thickness	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-034-867	EBD	ABS/POM/Steel	Off-White/Zinc/Chrome	8.5~15	86.7~153.0	Min. 15	400	1	20

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

FOLDING BRACKET EB-DA Built-in Damper

TEST METHOD 6



- Can be folded when not in use, allowing full use of space.
- The built-in damper allows for soft-close motion.
- Automatically locks when flap is in opened position.
  The lock can be easily released by pushing the lever.
- Keeps in folded position and has click sound when fully closed.
- Can also be used with the EB-303 (without damper type). 1
- No hinges are needed.

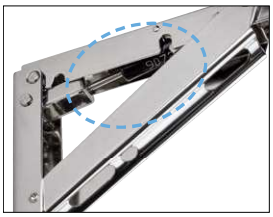
[Application]
- Shelves and tables (garages, recreational vehicles, commercial facilities, factories)

[Parts Included]
- Cross-recessed truss tapping screw ST4.8 x 38, Cross-recessed truss tapping screw ST4.8 x 16 (3 each)

[Optional Parts]
- Folding Bracket EB 1

[Remarks]
- Used in pairs. (Shelf width: Max. 1300 mm)
- Be careful not to get fingers caught in the bracket.
- Use a long screwdriver for installation.
- Make sure the release lever is attached to bottom of the shelf for correct installation

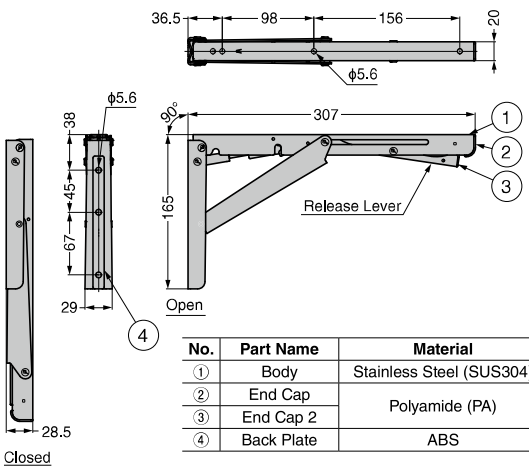
[Built-in Damper]



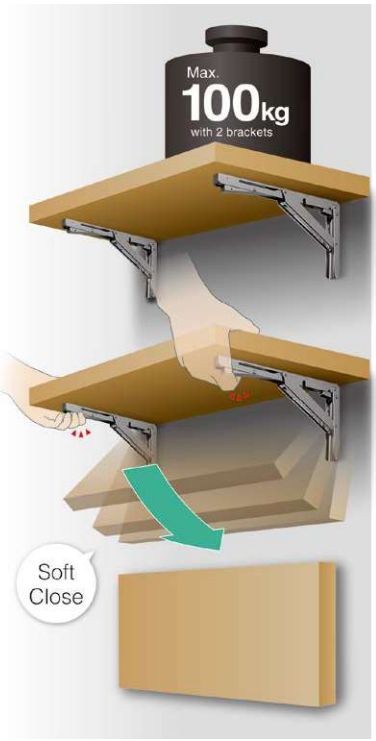
[End Cap]



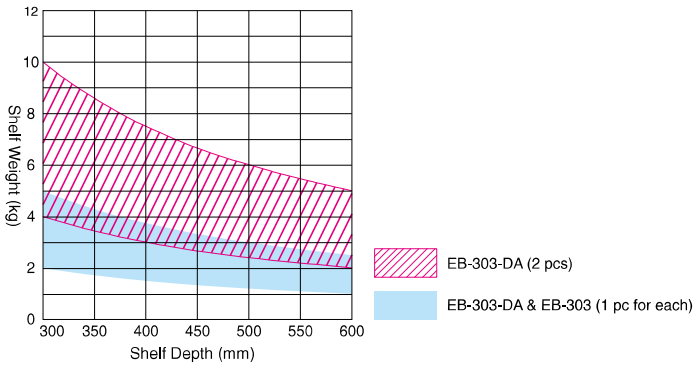
Comes with end caps for safe use.

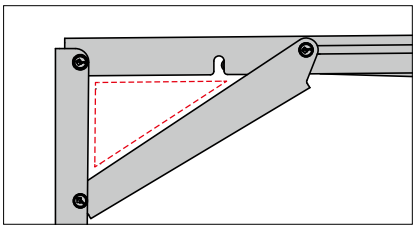


No.	Part Name	Material
①	Body	Stainless Steel (SUS304)
②	End Cap	Polyamide (PA)
③	End Cap 2	
④	Back Plate	ABS



[Product Selection Graph]





Be careful not to get fingers caught in this space when folding.

RoHS	CAD	Item Code	Item Name	Material	Finish	Number of Mounting Holes	Load Capacity / 1 pc N	Load Capacity / 1 pc kgf	Weight (g)	Box (pcs)
G	3D	120-048-775	EB-303-DA	Stainless Steel (SUS304)	Mirror	6	495	50	525	20

Refer to 1 : P.750

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

FOLDING BRACKET EB-F Multi Angle Locking

SUS



Holds at 60/70/80/90 degrees, and folds to 0 degrees.

- Can be folded when not in use, allowing full use of space.
- Holds at 4 angles: 60°, 70°, 80°, 90° (multi angle locking). This makes it perfect for wall display shelves.
- The multi angle locking function prevents the brackets from fully collapsing if the lever is accidentally pulled up.
- Can be used with the interlock lever EB-90. 1 (optional part)
- No hinge is required.

[Application]

- Shelves in garages, commercial facilities, factories, camping vehicles, or workbenches.

[Parts Included]

- Cross-recessed truss head tapping screw ST4.8 x 35
- Cross-recessed truss head tapping screw ST4.8 x 16

[Optional Parts]

- Interlock lever EB-90. 1

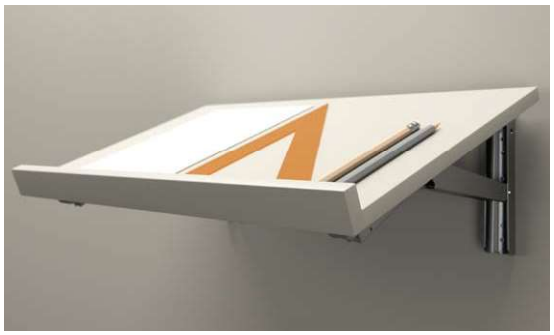
[Remarks]

- When folding/unfolding the brackets, please hold both the shelf and brackets with your hands.
- If three brackets are used, please use together with the interlock lever EB-90.
- Be careful not to get fingers caught in the bracket.
- Please use a long screwdriver for easy installation.
- Please make sure the unlocking lever is installed on leading edge side of the shelf.
- Cannot be combined with EB or EB-DA.
- Please make sure the wall can sustain the load.

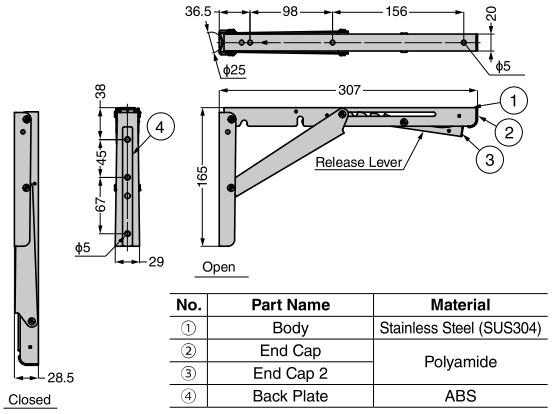
Video Link

[Application Example]

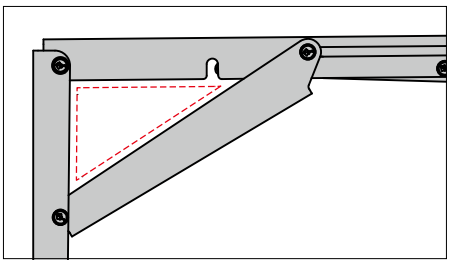








No.	Part Name	Material
①	Body	Stainless Steel (SUS304)
②	End Cap	Polyamide
③	End Cap 2	
④	Back Plate	ABS



Be careful not to get fingers caught in this section when folding.

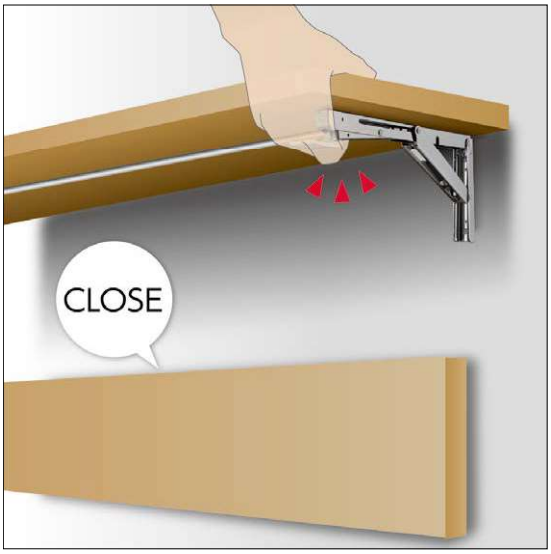
RoHS	CAD	Item Code	Item Name	Material	Finish	Number of Holes	Load Capacity N/1pc	Load Capacity kgf/1pc	Weight (g)	Box (pcs)
G	ab	120-046-398	EB-303-F	Stainless Steel (SUS304)	Mirror Polished	6	495	50	511	20

Refer to 1 : P.753

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

INTERLOCK LEVER EB-90 For EB-DA and EB-F / For Wide Shelf

INSTRUCTION



Used with the folding brackets.



- Multiple levers allow for one-handed operation.
- Can be used with the EB-DA 1 and EB-F 2 (folding brackets).
- Ideal for use on wide shelves.
- The rod can be cut to desired length.

[Remarks]

- If the rod is used with a length of 700 mm or more, please install the included additional mounting plate on the middle of the rod to prevent warping.
- When folding/unfolding the brackets, please hold both the shelf and brackets with your hands.

[Components]

- For 3 brackets



Lever : 3 pcs
Mounting plate: 6 pcs

- For 2 brackets



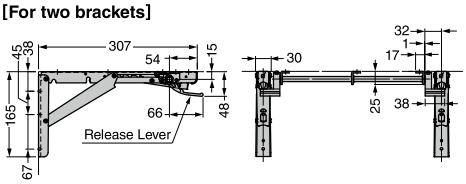
Lever : 2 pcs
Mounting plate: 3 pcs

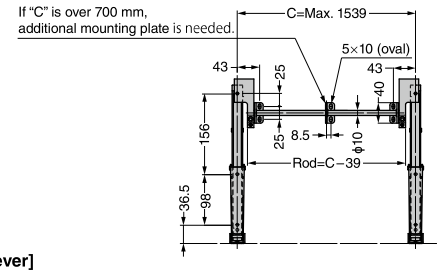
- Rod



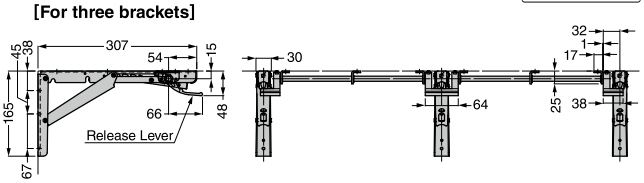
Video Link

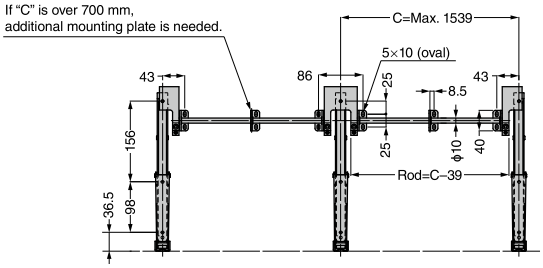
[For two brackets]





[For three brackets]





[Lever]

RoHS	CAD	Item Code	Item Name	Type	Material	Finish	Weight (g)	Box (set)
G	3D	120-046-395	EB-907560	For 2 brackets	Aluminium Alloy	Anodized	114	34
G	3D	120-046-396	EB-907561	For 3 brackets			218	34

[Rod]

RoHS	CAD	Item Code	Item Name	Length	Material	Finish	Weight (g)	Box (pcs)
G	3D	120-046-397	EB-907572	1500	Aluminium Alloy	Anodized	98	25

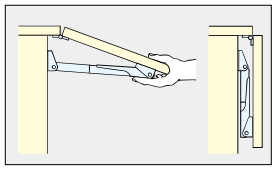
Refer to 1: P.751, 2: P.752

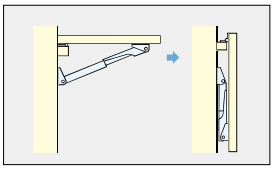
Please contact your local agent or your nearest Sugatsune subsidiary for detail/availability.

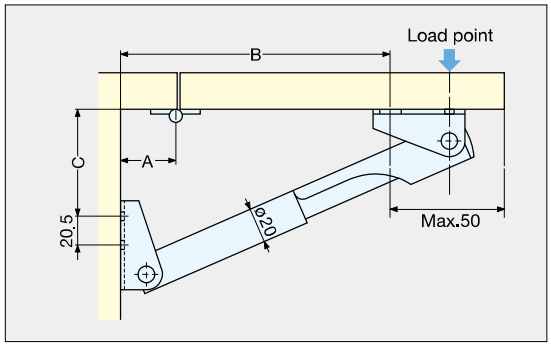
FOLDING BRACKET 388

TEST METHOD 6 | LOAD CAPACITY 25~36 kgf







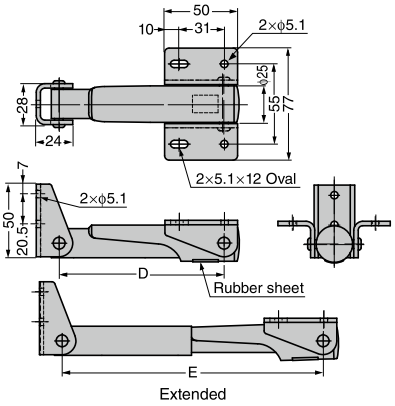


Installation example for 38820-25

- Automatically locks when flap is in opened position.
- Press lever to release the lock.
- For panel thickness 15~35mm
- Required Quantity:
  - Width up to 600mm···1pc
  - Width 600~1300mm···2pcs

[Parts Included]

- Cross-recessed truss head tapping screw ST 4.8 × 38 (2 pcs)
- Cross-recessed truss head tapping screw ST 4.8 × 16 (4 pcs)



RoHS	CAD	Item Code	Item Name	Material	Finish	A	B	C	D	E	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-105-060	38820-25	Aluminium Alloy	Anodised	28~30	161	15	114	180	250	25	149	5	50
G	3D	120-105-061	38830-25			28~39	252	45	168	275.9	309	31	187	5	50
G	3D	120-105-062	38845-25			28~50	402	87	258.5	430.8	330	33	266	5	30
G	3D	120-105-063	38860-25			28~40	549	137	368.5	585.8	360	36	342	5	30
G	3D	120-041-202	38820-25-BL		Black Anodised	28~30	161	15	114	180	250	25	149	5	50
G	3D	120-041-203	38830-25-BL			28~39	252	45	168	275.9	309	31	187	5	50
G	3D	120-041-204	38845-25-BL			28~50	402	87	258.5	430.8	330	33	266	5	30
G	3D	120-041-205	38860-25-BL			28~40	549	137	368.5	585.8	360	36	342	5	30

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

FOLDING HINGE 388H For Bracket 388



388H001



388H000

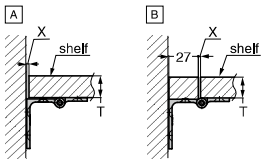
- For use with the folding brackets 388-D and 388. 1
- Easy to find the right position for the hinges.

[Parts Included]

- Cross-recessed countersunk tapping screw 4.8 x 35 (3 pcs)
- Cross-recessed countersunk tapping screw 4.8 x 16 (4 pcs)

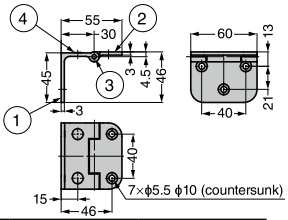
* Finish: anodised / black anodised

[Installation Example]



Thickness T and Clearance X

T	X
< 20	1
20 - 40	2



Video Link

RoHS	CAD	Item Code	Item Name	Finish / Colour	Weight (g)	Box (pcs)
G	3D	120-048-776	388H000	Silver Anodised	53	128
G	3D	120-048-777	388H001	Black Anodised		128

No.	Part Name	Material
①	Base	Aluminium Alloy
②	Bracket	
③	Shaft	Stainless Steel
④	Cap	Elastomer (TPE)

Refer to 1 : P.755

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

FOLDING BRACKET 388-D Built-in Damper

TEST METHOD 6



- Can be folded for saving space when not in use.
- The built-in damper allows for soft closing which prevents accidental shutting.
- Made of aluminium alloy for a lighter body.
- Can also be used together with the 388 bracket. (without damper model) 1

[Recommended Number of Bracket]
- Shelf width is under 600 mm : 1 pc
- Shelf width is 600-1300 mm : 2 pcs

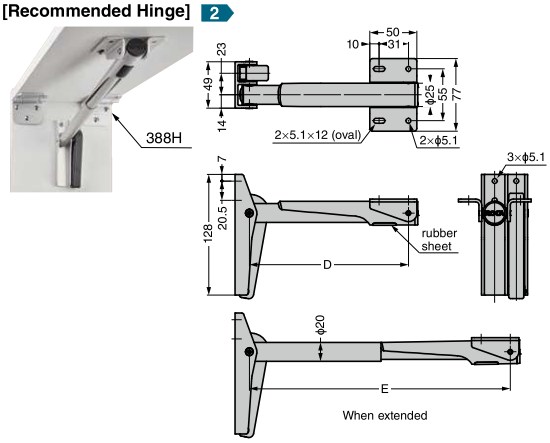
*See also the [Selection Guide].

[Parts Included]
- Cross-recessed truss head tapping screw ST4.8 x 38
- Cross-recessed truss head tapping screw ST4.8 x 16

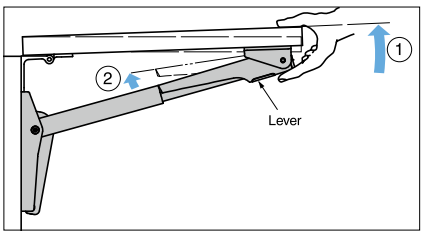
[Optional Part]
- Folding hinge 388H
- Folding bracket 388

[Remarks]
- When folding/unfolding the brackets, please hold both the shelf and brackets with hands.
- Make enough space for the shelf to lift up. See the [How to Use].
- Recommended shelf thickness: 15 -35 mm
- The load capacity was measured at the position demonstrated in the [Dimensions] drawing below.

[Recommended Hinge] 2

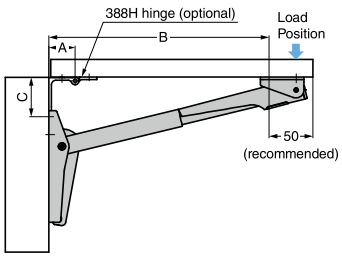


[How to Use]

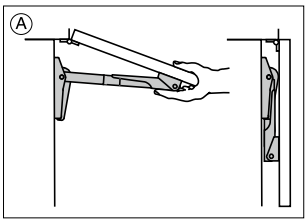


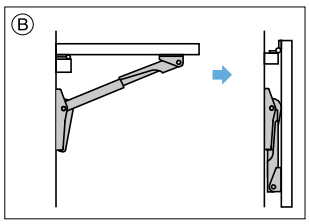
Note: ① Do not lift up the shelf forcibly. It may result in breakage.

[Dimensions]



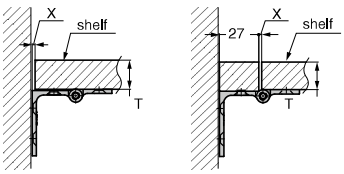
[Installation Example]





*Installation B: the 388H hinge can not be used.

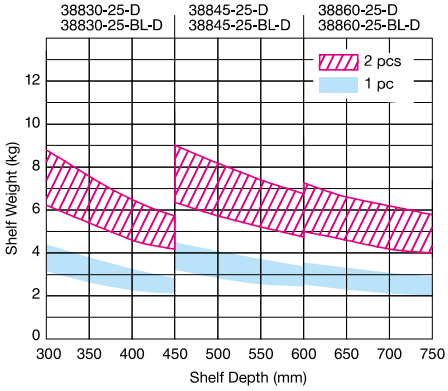
[Installation with the 388H Hinges] 2



Thickness T and Clearance X

T	X
< 20	1
20 - 40	2

[Selection Guide] Number of Brackets and Shelf Spec



*If 388-D (1pc) is used together with 388 (1pc), please refer to 1 pc of graph above.

RoHS	CAD	Item Code	Item Name	Material	Finish / Colour	A	B	C	D	E	Load Capacity/pc N	Load Capacity/pc kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-048-966	38830-25-D	Aluminium Alloy	Anodised	28-39	252	45	168	275.9	309	31	341	40	0
G	3D	120-048-967	38845-25-D			28-50	402	87	258.5	430.8	330	33	411	30	0
G	3D	120-048-968	38860-25-D			28-40	549	137	368.5	585.8	360	36	491	25	0
G	3D	120-048-969	38830-25-BL-D		Black Anodised	28-39	252	45	168	275.9	309	31	341	40	0
G	3D	120-048-970	38845-25-BL-D			28-50	402	87	258.5	430.8	330	33	411	30	0
G	3D	120-048-971	38860-25-BL-D			28-40	549	137	368.5	585.8	360	36	491	25	0

Refer to 1 2 : P.754

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

FOLDING BRACKET BOS-180, BOS-240

TEST METHOD 6 SUS



●With locking lever to prevent unexpected folding.

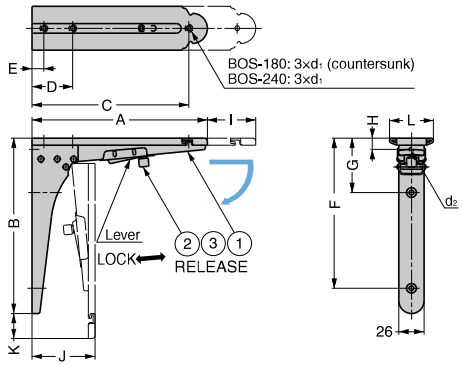
[Remarks]

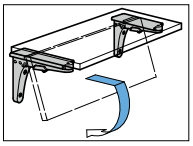
●Please hold the shelf board when folding.Improper use or applying load to it may cause accidental injury or damage.

[Parts Included]

●BOS-180
Countersunk head tapping screw 4×20 (SUS)
Pan head tapping screw 4.5×25 (SUS)
Raised countersunk head tapping screw 4.5×25 (SUS)
Raised countersunk head tapping screw 4.5×50 (SUS)

●BOS-240
Countersunk head tapping screw 4×20 (SUS)
Pan head tapping screw 5×30 (SUS)
Raised countersunk head tapping screw 5×30 (SUS)
Raised countersunk head tapping screw 5×70 (SUS)





No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Lever	Brass	Nickel
③	Cover	EPDM	Black

RoHS	CAD	Item Code	Item Name	A	B	C	D	E	F	G	H	I	J	K	L	d1	d2	Load Capacity N/pc	Load Capacity kgf/pc	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-111	BOS-180	181	181	162	42	12	155	56	11.5	50	65	26	45.5	4.8	4.8	392	40	476	1	20
–	3D	120-030-090	BOS-240	240	250	215	80	25	220	70	15	64	81	29	49	5	5.5	325	33	770	1	20

FOLDING BRACKET BTO

SUS



●Folding type of bracket BT and BTK 1.

●With locking lever to prevent unexpected folding.

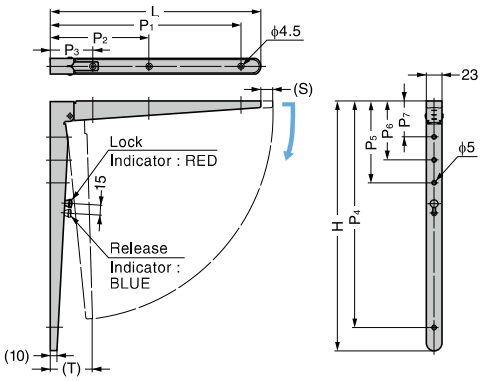
[Remarks]

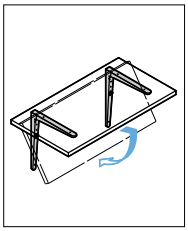
●When using as a bracket, be sure to lock the lever.

●Please hold the shelf board when folding.Improper use or applying load to it may cause accidental injury or damage.

[Parts Included]

●Raised countersunk head wood screw (see the table below for size and qty)





Item Name	Shelf Board		Wall	
	Size	Qty	Size	Qty
BTO-300	3.5×20	1 pc	4.5×25	1 pc
	3.8×38		4.5×45	2 pcs
BTO-380	3.5×25		4.5×32	1 pc
	3.8×38		4.5×50	3 pcs
	3.8×45		–	–

Stainless steel (Plain) for BTO-300S, BTO-380S
Steel (White Enamel Finish) for BTO-300W, BTO-380W.

RoHS	CAD	Item Code	Item Name	Material	Finish / Colour	H	L	P1	P2	P3	P4	P5	P6	P7	S	T	Load Capacity N/pc	Load Capacity kgf/pc	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-014-937	BTO-300S	Stainless Steel (SUS304)	Satin	300	241	211	–	61	270	80	50	–	15	57	200	20.4	510	2	20
–	3D	120-030-091	BTO-300W	Steel	White Powder Coating															2	20
–	3D	–	☆BTO-380S	Stainless Steel (SUS304)	Satin	380	320	290	150	65	345	125	90	55	18	64	–	–	–	–	–
–	3D	–	☆BTO-380W	Steel	White Powder Coating															–	–

Refer to 1 : P.748

☆Made to order with a minimum order of 2,000 pcs.

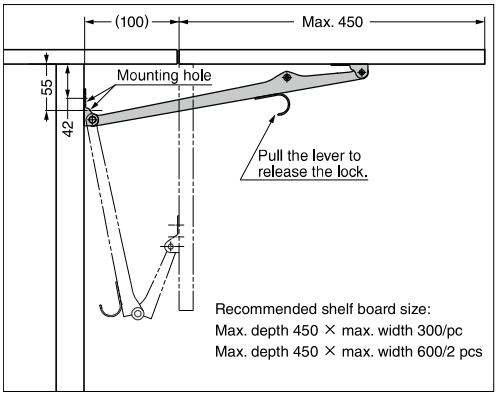
SPRING LOADED FOLDING BRACKET GTS-300

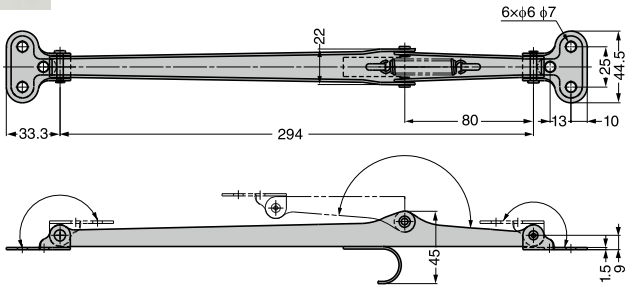
SUS



[Remarks]

- Please hold the shelf board when folding.Improper use or applying load to it may cause accidental injury or damage.
- Shelf board depth : Max. 450 mm.
- Horizontal use only.





RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/pc	Load Capacity kgf/pc	Load Capacity N/ 2 pcs	Load Capacity kgf/2 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-109-116	GTS-300	Stainless Steel (SUS304)	Polished	29.4	3	58.8	6	190	12	96

ANGLE BRACKET SV

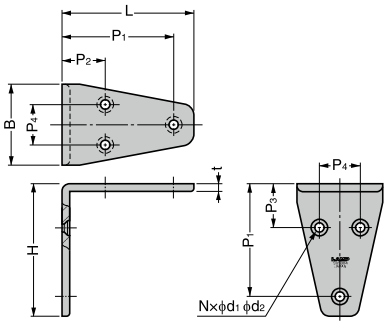
NSF TEST METHOD 6 SUS



- Made of stainless steel with excellent rust resistance, ideal for use as reinforcement fittings and brackets for partition panel in various places such as bathroom, kitchen, marine, and medical field, etc.

[Parts Included]

- Raised countersunk head wood screw (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P1	P2	P3	P4	B	t	d1	d2	Holes N	Load Capacity N/pc	Load Capacity kgf/pc	Weight (g)	Screw	Box (pcs)	Carton (pcs)
G	3D	120-030-060	SV-40S	Stainless Steel (SUS304)	Satin	40	40	34	17	17	–	25	3	3.3	6.5	4	78.4	8	29	3.1×	40	640
G	3D	120-030-056	SV-40M		Polished															20	40	640
G	3D	120-030-061	SV-55S		Satin	55	55	47	18	18	17	36.5		3.8	7.5	6			58	3.5×	20	320
G	3D	120-030-057	SV-55M		Polished															20	20	320
G	3D	120-030-062	SV-80S		Satin	80	80	71	24	24	27	52	4	4.3	8.5		137.2	14	162	3.8×	10	120
G	3D	120-030-058	SV-80M		Polished															20	10	120

ANGLE BRACKET XL-SA01

TEST METHOD 6 SUS



- Chamfered profile provides excellent safety and design.
- Made of stainless steel with excellent rust resistance, ideal for use as reinforcement fittings and brackets for partition panel in various places such as medical field, marine, bathroom, and kitchen, etc.
- Rounded corners for safety.

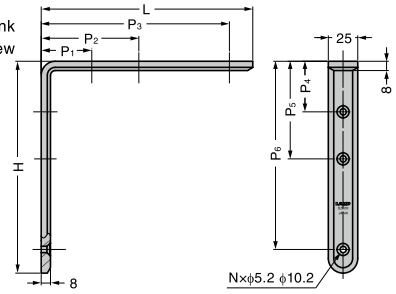
[Remarks]

- To prevent inclination due to the load when using as a shelf bracket, the opening angle is slightly more than 90°. Please check with actual item.

[Parts Included]

- Raised countersunk head tapping screw 5×30 (SUS)





RoHS	CAD	Item Code	Item Name	Material	Finish	L	H	P1	P2	P3	P4	P5	P6	Holes N	Load Capacity N/pc	Load Capacity kgf/pc	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-303	XL-SA01-120S	Stainless Steel (SUS304)	Satin	120	120	38	–	100	38	–	100	4	226	23	312	8	40
G	3D	120-030-307	XL-SA01-120M		Polished													8	40
G	3D	120-030-304	XL-SA01-150S		Satin	150	150	43		130	43		130		177	18	400	6	30
G	3D	120-030-308	XL-SA01-150M		Polished													6	30
G	3D	120-030-305	XL-SA01-180S		Satin	180	180		83	160		83	160	6	137	14	483	6	30
G	3D	120-030-309	XL-SA01-180M		Polished													6	30
G	3D	120-030-306	XL-SA01-240S		Satin	240	240			220			220		118	12	660	4	20
G	3D	120-030-310	XL-SA01-240M		Polished													4	20

ANGLE BRACKET SU-A

NSF TEST METHOD 6 SUS



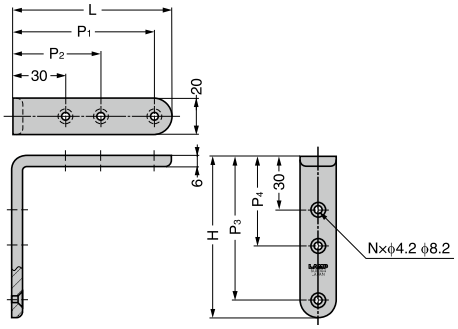
- Made of stainless steel with excellent rust resistance, ideal for use as reinforcement fittings and brackets for partition panel in various places such as medical field, marine, bathroom, and kitchen, etc.
- Rounded corners for safety.
- Please contact us for satin finish.

[Remarks]

- To prevent inclination due to the load when using as a shelf bracket, the opening angle is slightly more than 90°. Please check with actual item.

[Parts Included]

- Raised countersunk head tapping screw 4×25 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	H	L	P_1	P_2	P_3	P_4	Holes N	Load Capacity N/pc	Load Capacity kgf/pc	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-180	SU-A70M	Stainless Steel (SUS304)	Polished	70	70	–	60	–	60	4	235	24	107	10	100
G	3D	120-030-181	SU-A90M			90	90	80	50	80	50	6	167	17	140	10	100
G	3D	120-030-182	SU-A120M			120	120	110		110			127	13	194	8	80
G	3D	120-030-183	SU-A150M			150	150	140	60	140	60		98	10	248	6	60
G	3D	120-030-179	SU-A180M			180	180	170		170			88	9	302	6	30

ANGLE BRACKET SU-B

TEST METHOD 6 SUS



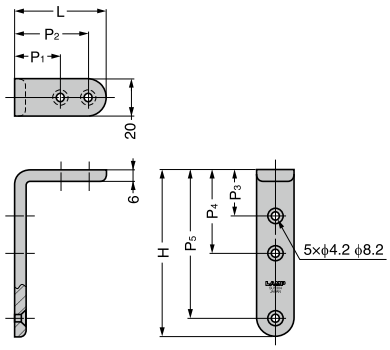
- Made of stainless steel with excellent rust resistance, ideal for use as reinforcement fittings and brackets for partition panel in various places such as medical field, marine, bathroom, and kitchen, etc.
- Rounded corners for safety.
- Please contact us for satin finish.

[Remarks]

- To prevent inclination due to the load when using as a shelf bracket, the opening angle is slightly more than 90°. Please check with actual item.

[Parts Included]

- Raised countersunk head tapping screw 4×25 (SUS)



RoHS	CAD	Item Code	Item Name	Material	Finish	H	L	P_1	P_2	P_3	P_4	P_5	Load Capacity N/pc		Load Capacity kgf/pc		Weight (g)	Box (pcs)	Carton (pcs)
													Transverse	Longitudinal	Transverse	Longitudinal			
G	3D	120-030-184	SU-B50M	Stainless Steel (SUS304)	Polished	90	50	25	40	25	45	80	235	127	24	13	106	10	100
G	3D	120-030-185	SU-B65M			120	65	30	55	30	60	110					145	10	100
G	3D	120-030-186	SU-B80M			150	80		70			140	177	98	18	10	186	8	80

ANGLE BRACKET SU

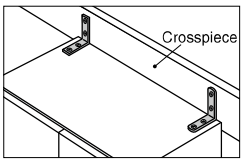
NSF TEST METHOD 6 SUS

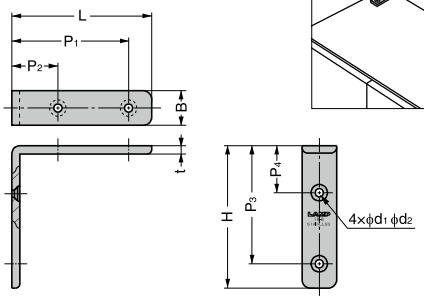


- Made of stainless steel with excellent rust resistance, ideal for use as reinforcement fittings and brackets for partition panel in various places such as medical field, marine, bathroom, and kitchen, etc.
- Rounded corners for safety.

[Parts Included]
- Raised countersunk head wood screw (SUS)

[For Fall Prevention]

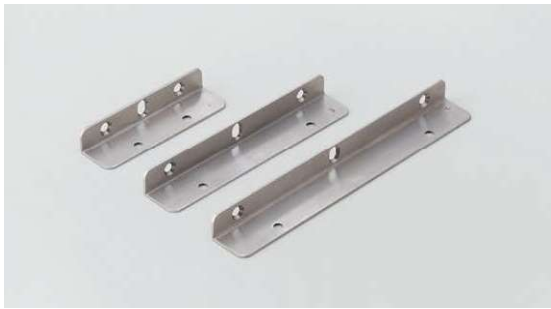




RoHS	CAD	Item Code	Item Name	Material	Finish	L	B	H	P_1	P_2	P_3	P_4	t	d_1	d_2	Load Capacity N/pc	Load Capacity kgf/pc	Weight (g)	Screw	Box (pcs)	Carton (pcs)
G	3D	120-030-070	SU-30S	Stainless Steel (SUS304)	Satin	30	12	30	24	11	24	11	2.5	3.5	6.5	59	6	11	3.1×20	60	960
G	3D	120-030-065	SU-30M		Polished															60	960
G	3D	120-030-071	SU-45S		Satin	45	13	45	37	17	37	17	3			49	5	23		50	800
G	3D	120-030-066	SU-45M		Polished															50	800
G	3D	120-030-072	SU-60S		Satin	60	15	60	50	20	50	20		4	7.5	39	4	36	3.5×20	40	640
G	3D	120-030-067	SU-60M		Polished															40	640

ANGLE BRACKET SSA

TEST METHOD 9 SUS

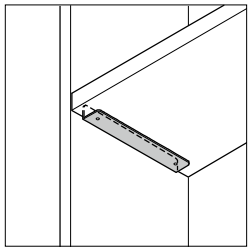


- L-shaped bracket with wide and stable support part.
- Shelf board hides the installation part for clean appearance.
- An oval hole at the middle allows to adjust the position vertically in 2 mm.

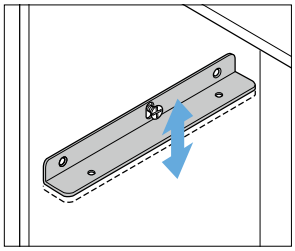
[Remarks]
- Please install to side board.If installed to back board, it may fall off due to the inability to withstand the load.
- Please firmly install in a place with adequate strength.
- When installing to a plasterboard, please screw in the core material.
- Load capacity of below table is the value when using 2 angle brackets for 1 shelf board.

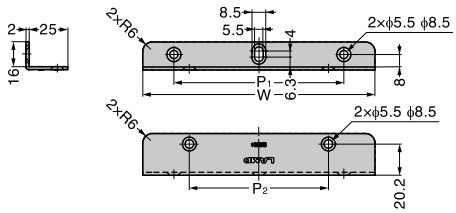
[Parts Included]
- countersunk head tapping screw 3.5×16 (SUS)
- countersunk head tapping screw 3.5×12 (SUS)

[Installation]



[Adjustable in a Vertical Direction]





RoHS	CAD	Item Code	Item Name	Material	Finish	W	P_1	P_2	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-027-253	SSA-100H	Stainless Steel (SUS304)	Satin	100	60	40	1470	150	64.6	30	240
G	3D	120-027-254	SSA-150H			150	110	90			96.8	20	160
G	3D	120-027-255	SSA-200H			200	160	130			129.6	15	120

Understandable! Selectable! Usable!

Sugatsune Website

https://global.sugatsune.com/

You can visit the website to



- Check new product information



- View product introduction video



- Browse digital web catalogue

Refer to Back Cover



- Use product selection tool

Refer to Back Cover



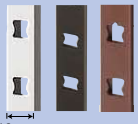
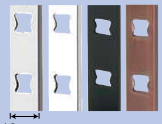
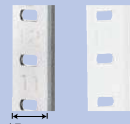
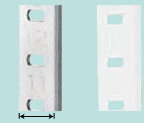
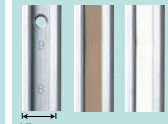
- Download installation instructions

SUGATSUNE Search

SHELF STANDARD AND SHELF SUPPORT LIST

For the products listed below, numerous patents and design rights have been applied or registered.

Load capacity is the value for 1 shelf board (using 4 shelf supports).

Load Capacity kgf	45			60	80	
Choose Shelf Standard — Feature	 12 mm **AP-DH Mortise Mount** AL ▸P.775 Can be easily cut on site! Press-fit type without using screws. Clean appearance!	 12 mm **AP-DM Surface Mount** AL ▸P.775 Recommended! Can be easily cut on site! With the thickness of only 3mm, surface mount is recommended!	 15 mm **SP, SPS** SUS ▸P.771 With the largest number of applicable shelf supports!	 15 mm **SM** SUS ▸P.774 With blind to cover the inside of mounting hole for shelf support!	 15 mm **SP, SPS** SUS ▸P.771 With the largest number of applicable shelf supports!	 15 mm **SPW-1820** SUS ▸P.768 Excellent design with shelf support mounting hole invisible. Mounting screws can also be hidden with cover installed.
Thickness	1 mm (Mortise part excluded)	3 mm	5 mm	5 mm	5 mm	5 mm
Total Length	1820 mm 2600 mm	1820 mm 2600 mm	455 mm ~ 2600 mm	1820 mm 2600 mm	455 mm ~ 2600 mm	1820 mm
End Cap	–	**AP-EC20** ▸P.776 	**SPW-EC20** ▸P.768  **SP-18E** ▸P.770 	**SPW-EC20** ▸P.768  **SP-18E** ▸P.770 	**SPW-EC20** ▸P.768  **SP-18E** ▸P.770 	**SPW-EC20** ▸P.768  **SP-18E** ▸P.770 
Choose Shelf Support and Accessories	**AP-FB20** ▸P.776  Thin and space-saving! Also suitable for glass shelf with cap installed. Shelf Support Cap & Cover: Not Included — **AP-FC20** ▸P.776 **Other Accessories** Shelf Holder With Angle Adjusting Function AP-FK20 ▸P.780 Shelf Support Hook AP-FK20D ▸P.779 Dowel AP-FK20C ▸P.780 Shelf Holder AP-FA20 ▸P.779 New arrivals! Shelf Holder AP-FB120 ▸P.781 AP-DM (FOR AP-DM)	**SPB-20** ▸P.772  Not apt to come off in case of vibration Shelf Support Cap & Cover: Not Used **Other Accessories** Hook For Shelf Standard SP-35 ▸P.771 Shelf Holder SPB-200 ▸P.773	**SPM-20B** ▸P.774  Thin and space-saving! Shelf Support Cap & Cover: Not Used	**SPF-20LC** ▸P.773  Not apt to slide with a cover! Suitable for glass shelf Height is adjustable by +2mm Shelf Support Cap & Cover: Included **SPF-20** ▸P.772  Thin and space-saving! Shelf Support Cap & Cover: Not Used **Other Accessories** Hook For Shelf Standard SP-35 ▸P.771 Shelf Holder SPB-200 ▸P.773 Shelf Holder SPF-20A ▸P.773	**SPW-20** ▸P.768  With cover of the same colour as the shelf standard cover. Shelf Support Cap & Cover: Included

SUS Made of stainless steel.

AL Made of aluminium alloy.

SHELF STANDARD AND SHELF SUPPORT LIST

For the products listed below, numerous patents and design rights have been applied or registered.

Load capacity is the value for 1 shelf board (using 4 shelf supports).

80



8 mm

SPN-1820 SUS
▸P.767

8mm wide ultra slim body!

5 mm

1820 mm

SPN-17EC
▸P.767



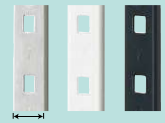
SPN-15
▸P.767



Slim body matching with shelf standard! Holds more securely with cap installed.

Shelf Support Cap & Cover Not Included

SPN-15C
▸P.767



12 mm

SPE SUS
▸P.766

Recommended

Thin type of 3mm thickness! Surface mount is recommended!

3 mm

1820 mm
2620 mm

AP-EC20
▸P.776



SPE-FB20S
▸P.766



Thin and space-saving! Also suitable for glass shelf with cover installed

Shelf Support Cap & Cover Not Included

SPE-FC20
▸P.766

Other Accessories

Shelf Holder With Angle Adjusting Function AP-FK20
▸P.780

Shelf Support Hook AP-FK20D
▸P.779

Dowel AP-FK20C
▸P.780

Shelf Holder AP-FA20
▸P.779

90



15 mm

SM SUS
▸P.774

With blind to cover the inside of mounting hole for shelf support!

5 mm

1820 mm
2600 mm

SPW-EC20
▸P.768



SP-18E
▸P.770



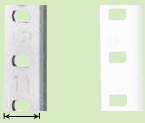
SMB-15R
▸P.774



Not apt to slide with a cover!

Shelf Support Cap & Cover Included

100



15 mm

SP, SPS SUS
▸P.771

Recommended

With the largest number of applicable shelf supports!

5 mm

455 mm
~
2600 mm

SPW-EC20
▸P.768



SP-18E
▸P.770



SPB-15R
▸P.771



Not apt to slide with a cover! Suitable for glass shelf

Shelf Support Cap & Cover Included

Other Accessories

Hook for Shelf Standard SP-35
▸P.771

Shelf Holder SPB-200
▸P.773

130



15 mm

SPH SUS
▸P.769

Not apt to deform due to load!

5 mm

1820 mm
2524 mm

SPW-EC20
▸P.768



SP-18E
▸P.770



SPH-5
▸P.770



With cover and holder, suitable for glass shelf.

Shelf Support Cap & Cover Included

SPH-20
▸P.769



Not apt to slide with a cover! Suitable for glass shelf

Shelf Support Cap & Cover Included

SPH-15
▸P.770



Compact design with clean appearance.

Shelf Support Cap & Cover Not Used

150



20 mm

SPHL-1820 SUS
▸P.764

Door thickness 1.2mm! Not apt to deform due to load!

8 mm

1820 mm

SPHL-23E
▸P.764



SPHL-30
▸P.764



Not apt to slide with a cover! Suitable for glass shelf

Shelf Support Cap & Cover Included

SPHL-25
▸P.764



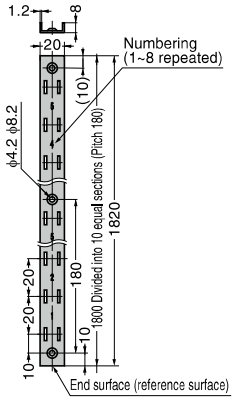
Compact design with clean appearance.

Shelf Support Cap & Cover Not Used

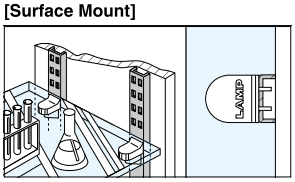
HEAVY DUTY SHELF STANDARD SPHL-1820 For Heavy Duty

NSF SUS

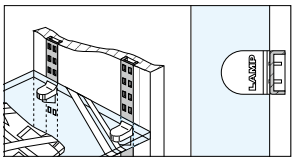




[Surface Mount]



[Mortise Mount]



- Heavy duty shelf standard with 1.2 mm thickness.
- The shelf supports are adjustable every 20mm.
- Made of stainless steel (SUS304) with excellent durability.
- Use with shelf support SPHL-30 or SPHL-25 (sold separately).
- End cap SPHL-23E for shelf standard is sold separately.

[Sold Separately]

- Shelf support SPHL-30 1
- Shelf support SPHL-25 2
- End cap SPHL-23E 3

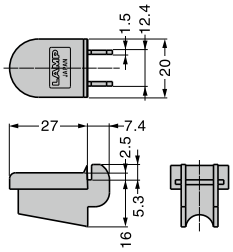
RoHS	CAD	Item Code	Item Name	Material	Finish	Holes	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-912	SPHL-1820	Stainless Steel (SUS304)	Satin	11	500	30	–

Refer to 1 2 3 : P.764

SHELF SUPPORT SPHL-30 For SPHL-1820

NSF TEST METHOD 9 SUS





- For shelf standard SPHL-1820 1.
- Can be attached/detached quickly and firmly.
- Elastomer cover (black) prevents glass shelf from sliding.
- Has resistance to vibration.

[Remarks]

- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.

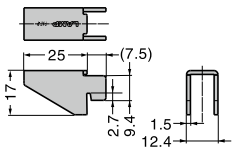
RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-913	SPHL-30	Stainless Steel (SUS304)	Satin	1470	150	12	100	1000

Refer to 1 : P.764

SHELF SUPPORT SPHL-25 For SPHL-1820

NSF TEST METHOD 9 SUS





- For shelf standard SPHL-1820 1.
- Compact design does not affect cabinet appearance.

[Remarks]

- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.

RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-914	SPHL-25	Stainless Steel (SUS304)	Satin	1470	150	11	200	1200

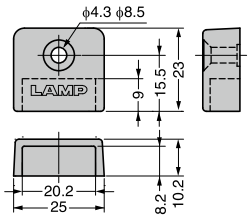
Refer to 1 : P.764

END CAP SPHL-23E For SPHL-1820



[Application Example]





- For shelf standard SPHL-1820 1.
- Installed at the end of shelf standard for safe use.

RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-018-660	SPHL-23E-WT	PP	White	2	400	4000
G	3D	120-018-661	SPHL-23E-BL		Black		400	4000

Refer to 1 : P.764

SHELF HOLDER SPHL-FB200 For SPHL-1820

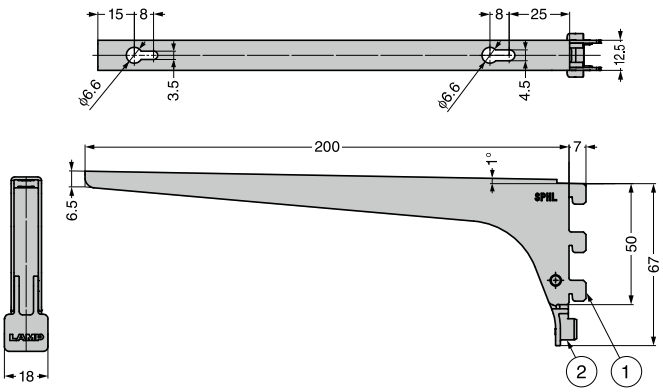
SUS

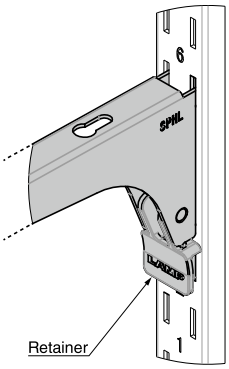


- For shelf standard SPHL-1820 1.
- 2 brackets required for 1 shelf.
- With retainer to prevent from coming off from shelf standard.

[Remarks]
- Max. shelf board width: 900mm.
- Load capacity varies depending on shelf board depth.(See table)
- Load capacity includes shelf board weight.
- When fixing shelf standard on wall, be sure to install it in the position with pillar or other solid substrates.

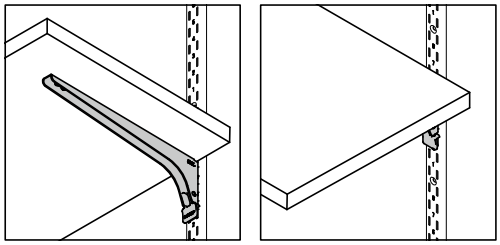
[Parts Included]
- Pan head tapping screw 3×12 (SUS)



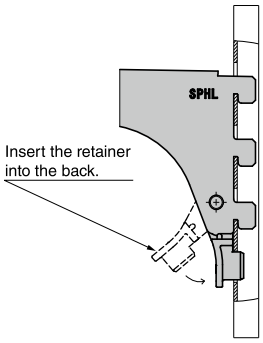


No.	Part Name	Material	Finish/Colour
①	Body	Stainless Steel (SUS430)	Satin
②	Retainer	PP	White

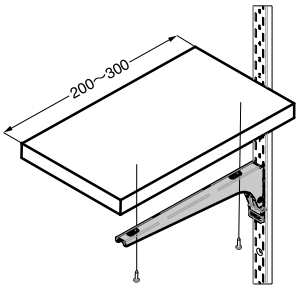
[Application Example]



●Shelf Standard Installation



●Shelf Board Installation



RoHS	CAD	Item Code	Item Name	Shelf Board Depth 200~250mm		Shelf Board Depth 250~300mm		Weight (g)	Box (pcs)	Carton (pcs)
				Load Capacity N/2 pcs	Load Capacity kgf/2 pcs	Load Capacity N/2 pcs	Load Capacity kgf/2 pcs			
G	3D	120-036-485	SPHL-FB200	196	20	137	14	75	20	200

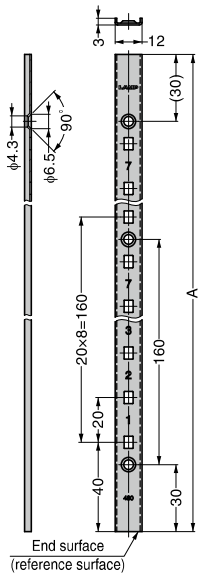
Refer to 1 : P.764

SHELF STANDARD SPE

SUS







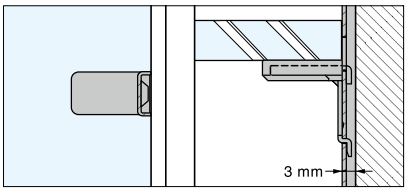
- 3 types of colours (Plain, White & Black) available.
- Ultra thin shelf standard of 3mm thickness.
- The shelf supports are adjustable every 20mm.
- Use with shelf support SPE-FB20S (sold separately).
- End cap AP-EC20 for shelf standard is sold separately.

[Remarks]
- Noted that scratch is conspicuous on black surface.

[Sold Separately]
- Shelf support SPE-FB20S 1
- End cap AP-EC20 2

[Recommended Screws]
- Countersunk head tapping screw 3 or Countersunk head wood screw 3.1

[Installation]
- Combination with shelf support SPE-FB20S 1



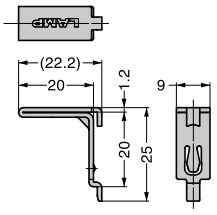
RoHS	CAD	Item Code	Item Name	Material	Finish	A	Screw Hole	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-019-532	SPE-1820	Stainless Steel (SUS430)	Plain	1820	12	156	100	–
G	3D	120-020-757	SPE-1820WT		White Enamel Finish				100	–
G	3D	120-025-833	SPE-1820BL		Black Enamel Finish				100	–
G	3D	120-021-423	SPE-2620		Plain	2620	17	224	60	–

Refer to 1 : P.766, 2 : P.776

SHELF SUPPORT SPE-FB20S For SPE

TEST METHOD 9 SUS

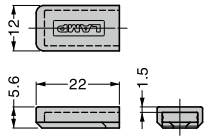




Shelf support



With cover (sold separately)

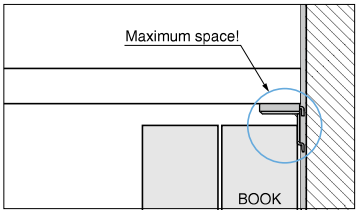


Shelf support cover

- 3 types of colours (Plain, White & Black) available.
- For shelf standard SPE 1.
- Can be attached/detached quickly and firmly.
- Shelf support cover (sold separately) prevents glass shelf from sliding.
- Designed to maximise the space under the shelf.

[Remarks]
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.
- Noted that scratch is conspicuous on black surface.

[Sold Separately]
- Shelf support cover SPE-FC20



[Shelf Support]

RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-020-903	SPE-FB20S	Stainless Steel (SUS430)	Barrel Polished	785	80	4.5	300	3000
–	3D	120-021-678	SPE-FB20SWT		White Enamel Finish				300	3000
–	3D	120-025-834	SPE-FB20SBL		Black Enamel Finish				300	3000

[Cover] Sold Seperately

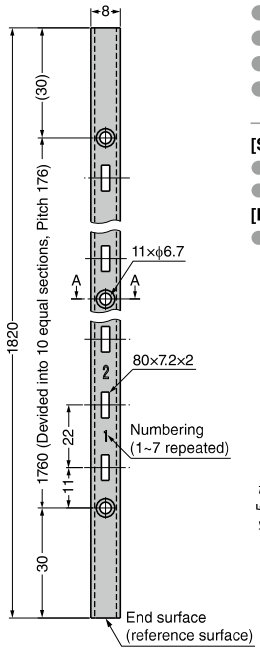
RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	120-019-642	SPE-FC20	Elastomer (TPE)	Light Grey	0.8	300	3000
G	3D	120-028-504	SPE-FC20-BL		Black		300	3000

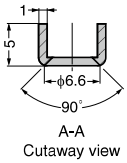
Refer to 1 : P.766

SHELF STANDARD SPN-1820

SUS







- Only 8 mm width with large load capacity.
- The shelf supports are adjustable every 22mm.
- With shelf support holes to securely hold the shelf support.
- Use with shelf support SPN-15 (sold separately).
- End cap SPN-17EC 1 for shelf standard is sold separately.

[Sold Separately]
- Shelf support SPN-15 2
- End cap SPN-17EC 1

[Recommended Screws]
- Countersunk head tapping screw 3 or Countersunk head wood screw 3.1

RoHS	CAD	Item Code	Item Name	Material	Finish	Holes	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-017-129	SPN-1820	Stainless Steel (SUS430)	Satin	11	205	60	–

Refer to 1 2 : P.767

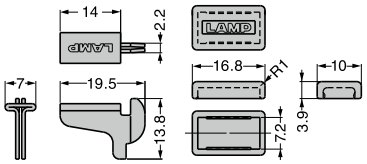
SHELF SUPPORT SPN-15 For SPN-1820

TEST METHOD 9 SUS



Picture above is the combination with cap (sold separately).

Refer to 1 : P.767



- For shelf standard SPN-1820 1.
- Holds more securely with optional cap (use without cap is also possible).

[Remarks]
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.

[Sold Separately]
- Shelf support cap SPN-15C

[Shelf Support]

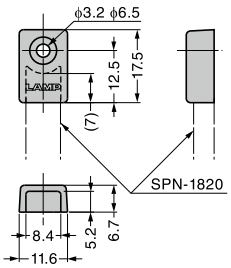
RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/4pcs	Load Capacity kgf/4pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-017-692	SPN-15	Stainless Steel (SUS304)	Barrel Polished	785	80	2	400	2000

[Shelf Support Cap] Sold Separately

RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-017-693	SPN-15C	Elastomer (TPE)	White	0.5	400	4000

END CAP SPN-17EC For SPN-1820





- For shelf standard SPN-1820 1.

RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	120-017-694	SPN-17EC	PP	White	0.9	400	4000

Refer to 1 : P.767

SHELF STANDARD SPW-1820

SUS

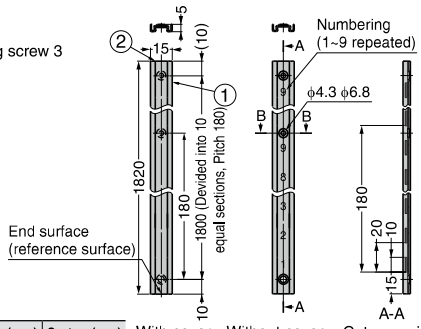


- Mounting holes for shelf support invisible from the front.
- Screw holes and slots are concealed when used with cover (sold separately). Two colours available for the cover.
- Mortise mount also available as shown in the "B-B Cutaway view" below.
- The shelf supports are adjustable every 20 mm.
- Use with shelf support SPW-20 (sold separately).
- End cap for shelf standard is sold separately. Besides SPW-EC20, SP-18E can also be used.

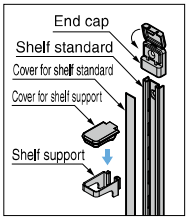
[Sold Separately]
- Cover
- Shelf support SPW-20 1
- End cap SPW-EC20 2
- End cap SP-18E 3

[Recommended Screws]
- Countersunk head tapping screw 3

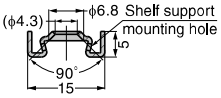




[Installation]



※Items except shelf standard are sold separately.



[Shelf Standard]

RoHS	CAD	Item Code	Item Name	Holes	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-017-699	SPW-1820	11	335	60	–

[Cover] Sold Separately

RoHS	CAD	Item Code	Item Name	Colour	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	120-017-817	SPW-CV1820-WT	White	8	1000	–
–	3D	120-017-816	SPW-CV1820-BR	Brown		1000	–

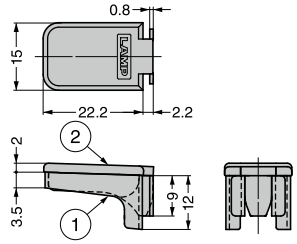
No.	Part Name	Material	Finish / Colour
①	Shelf Standard	Stainless Steel (SUS430)	Satin
②	Cover	Rigid Polyvinyl Chloride	White, Brown

Refer to 1 2 : P.768, 3 : P.770

SHELF SUPPORT SPW-20 For SPW-1820

TEST METHOD 9 SUS





- For shelf standard SPW-1820 1.
- With cover of the same colour as cover for shelf standard SPW-1820.
- Has resistance to vibration.

[Remarks]
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.

No.	Part Name	Material	Finish / Colour
①	Shelf Support	Stainless Steel (SUS304)	Barrel Polished
②	Cover	Elastomer (TPE)	White, Brown

RoHS	CAD	Item Code	Item Name	Cover Colour	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-017-696	SPW-20-WT	White	785	80	4.5	200	2000
G	3D	120-017-695	SPW-20-BR	Brown				200	2000

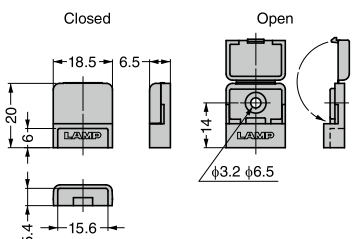
Refer to 1 : P.768

END CAP SPW-EC20 For SPW-1820, SPH, SP, SPS, SM



[Installation]





- For shelf standard SPW-1820.
- The mounting screw is concealed with the integrated end cap closed.
- Also suitable for the following products besides SPW-1820 1.
  SPH 2
  SP, SPS 3
  SM 4

[Recommended Screws]
- Countersunk head tapping screw 3

RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-017-698	SPW-EC20-WT	PP	White	2	400	2000
G	3D	120-017-697	SPW-EC20-BR		Brown		400	2000

Refer to 1 : P.768, 2 : P.769, 3 : P.771, 4 : P.774

HEAVY DUTY SHELF STANDARD SPH

SUS





Shelf support SPH-20 (sold separately)



Shelf support SPH-5 (sold separately)

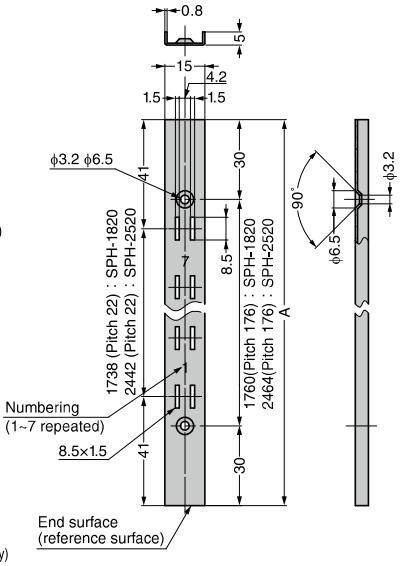


Shelf support SPH-15 (sold separately)

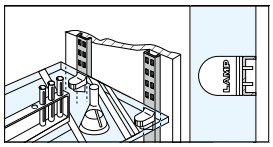
- The shelf supports are adjustable every 22mm.
- Made of stainless steel: Not apt to deform due to load.
- Ideal for shelf supports of laboratory chemical shelf (glass shelf), storage furniture, cosmetics, clothing, and food showcase, etc.
- Use with SPH-20, SPH-5, SPH-15 (sold separately).
- End cap for shelf standard is sold separately.Please select SP-18E or SPW-EC20.

[Sold Separately]

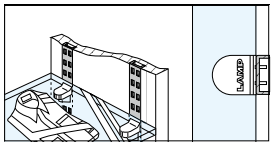
- Shelf support SPH-20 1
- Shelf support SPH-5 2
- Shelf support SPH-15 3
- End cap SP-18E 4
- End cap SPW-EC20 5



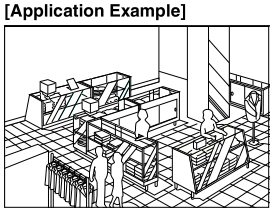
[Surface Mount]



[Mortise Mount]



[Application Example]

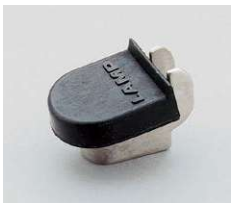


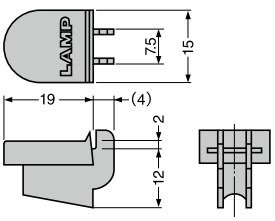
RoHS	CAD	Item Code	Item Name	Material	Finish	A	Holes	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	120-030-673	SPH-1820	Stainless Steel (SUS304)	Satin	1820	11	230	80	–
–	3D	120-030-682	SPH-2520			2524	15	330	30	–

Refer to 1 : P.769, 2 3 4 : P.770, 5 : P.768

SHELF SUPPORT SPH-20 For SPH

NSF TEST METHOD 9 SUS



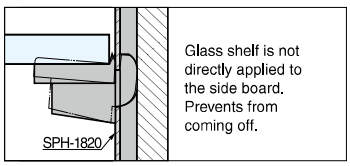


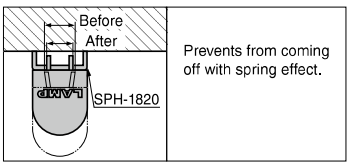
- For shelf standard SPH 1.
- Rubber cover (NBR/black) prevents glass shelf from sliding.
- Can be attached/detached quickly and firmly.
- Has resistance to vibration.

[Remarks]

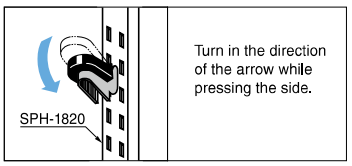
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.

[Key Points]





[Installation]



RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	120-041-375	SPH-20	Stainless Steel (SUS304)	Satin	1280	130	4.5	300	3000

Refer to 1 : P.769

SHELF SUPPORT (W/HOLDER) SPH-5 For SPH

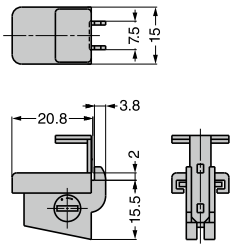
NSF TEST METHOD 9 SUS TEMPERED GLASS



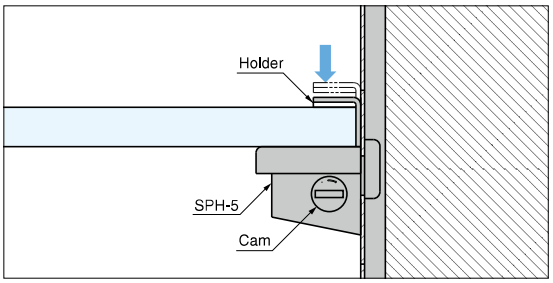
- For shelf standard SPH 1.
- Rubber cover (NBR/black) and holder prevent glass shelf from sliding.
- Can be attached/detached quickly and firmly.
- Has resistance to vibration.

[Applications]
- Suitable glass thickness: 4~8 mm

[Remarks]
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 3 mm.
- This shelf support can only be used for preventing the glass shelf from shifting. Do not use it for corner bracket, or pull it up.



[Installation]



When glass shelf is placed, insert holder between shelf and shelf standard. Tighten cam on the side with a flat-head screwdriver to complete the installation.

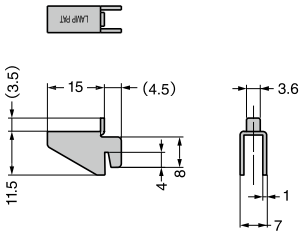
RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	120-041-374	SPH-5	Stainless Steel (SUS304)	Satin	1280	130	8	100	1000

Refer to 1 : P.769

SHELF SUPPORT SPH-15 For SPH

NSF TEST METHOD 9 SUS





- For shelf standard SPH 1.
- Compact design does not affect cabinet appearance.

[Remarks]
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.

RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-665	SPH-15	Stainless Steel (SUS304)	Satin	1280	130	2.6	400	4000

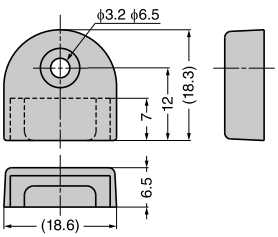
Refer to 1 : P.769

END CAP SP-18E For SPH, SP, SPS, SM, SPW

NSF







- Rounded corner for safe use.
- Installed at the end of shelf standard.
- Can be used for the following shelf standards.

SPW-1820 1
SPH 2
SP, SPS 3
SM 4

[Optional Parts]
- Countersunk head wood screw 3.1

RoHS	CAD	Item Code	Item Name	Colour	Material	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	120-030-214	SP-18E-BL	Black	ABS	1.0	500	5000
G	3D	120-030-215	SP-18E-WT	White		1.2	500	5000

Refer to 1 : P.768, 2 : P.769, 3 : P.771, 4 : P.774

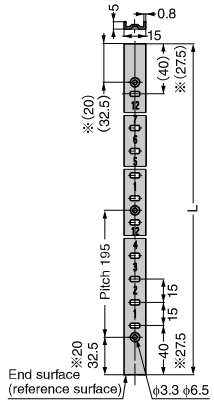
SHELF STANDARD SP, SPS

SUS





Shelf support SPB-20 and Hook SP-35 are sold separately.



※ marked dimension from the edge are for SPS-1600 only.

- The shelf supports are adjustable every 15mm.
- Use with SPB-15R, SPB-20, SPF-20, SPF-20LC (sold separately). Hook SP-35 suitable for vertical or horizontal shelf standard and bracket SPB for simply holding shelf also available.
- End cap for shelf standard is sold separately.Please select SP-18E or SPW-EC20.
- Models without protection tape available.

[Sold Separately]

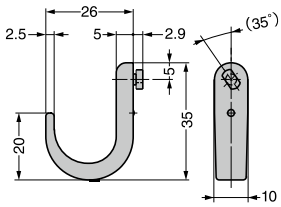
- Hook for shelf standard SP-35 1
- Shelf support SPB-15R 2
- Shelf support SPB-20 3
- Shelf support SPF-20 4
- Levelling shelf support SPF-20LC 5
- Shelf holder SPF-20A 6
- Bracket for shelf standard SPB 7
- End cap SPW-EC20 8
- End cap SP-18E 9

RoHS	CAD	Item Code	Item Name	Type	Material	Finish	L	Holes	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	120-030-685	SP-455	With Protection Tape	Stainless Steel (SUS304)	Satin	455	3	57	60	–
–	3D	120-030-686	SP-650				650	4	81	60	–
–	3D	120-030-687	SP-845				845	5	105	60	–
–	3D	120-030-688	SP-1040				1040	6	129	60	–
G	3D	120-030-827	SP-1820	Without Protection Tape			1820	10	222	60	–
–	3D	120-030-692	SP-1820WT	With Protection Tape	Stainless Steel (SUS430)	White Enamel Finish				60	–
–	3D	120-030-668	SP-2600		Stainless Steel (SUS304)	Satin	2600	14	317	30	–
–	3D	120-044-356	SPS-1600	Without Protection Tape	Stainless Steel (SUS430)		1600	8	195	60	–
–	3D	120-030-669	SPS-1820				1820	10	222	60	–
–	3D	120-030-667	SPS-2600	With Protection Tape			2600	14	317	30	–
–	3D	120-018-227	SPS-2600T	Without Protection Tape						30	–

Refer to 1 2 : P.771, 3 4 : P.772, 5 6 7 : P.773, 8 : P.768, 9 : P.770

HOOK FOR SHELF STANDARD SP-35 For SP, SPS





- For shelf standard SP, SPS 1.
- Can be used with a vertical or horizontal standard.

[Application Example]





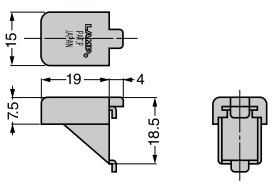
RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/pc	Load Capacity kgf/pc	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-020-234	SP-35	Zinc Alloy (ZDC)	Nickel	49	5	15.5	150	600

Refer to 1 : P.771

SHELF SUPPORT SPB-15R For SP, SPS

NSF TEST METHOD 9 SUS



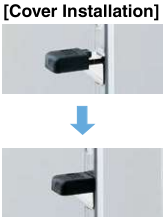


- 2 colours (Black & White) for cover available.
- For shelf standard SP, SPS 1.
- Can be attached/detached quickly and firmly.
- Elastomer cover prevents glass shelf from sliding.

[Remarks]

- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.

[Cover Installation]



RoHS	CAD	Item Code	Item Name	Material	Finish	Colour	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-049-026	SPB-15R	Stainless Steel (SUS304)	Satin	Black	980	100	6	300	3000
G	3D	120-036-306	SPB-15R-WT			White				–	–

Refer to 1 : P.771

SHELF SUPPORT SPB-20 For SP, SPS

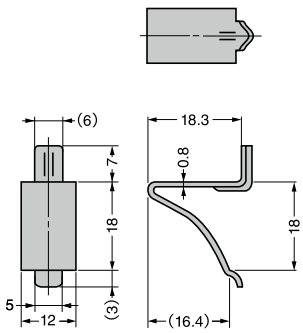
NSF TEST METHOD 9 SUS


SPB-20

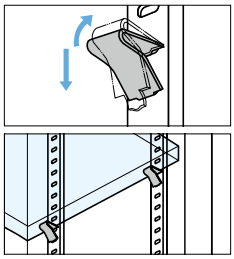

SPB-20WT

- For shelf standard SP, SPS 1.
- Can be attached/detached quickly and firmly.
- Has resistance to vibration.
- Satin finish with/without protection tape available.

[Remarks]
- By its structure, SPB-20 cannot be installed in the position to hide the mark "12" on shelf standard.
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.



[Installation]
Lift the lower side of the shelf support and insert.



RoHS	CAD	Item Code	Item Name	Type	Material	Finish	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-015	SPB-20	With Protection Tape	Stainless Steel (SUS304)	Satin	441	45	3.6	300	3000
G	3D	120-031-474	SPB-20T	Without Protection Tape						300	3000
G	3D	120-030-693	SPB-20WT			White Enamel Finish				300	3000

Refer to 1 : P.771

SHELF SUPPORT SPF-20 For SP, SPS

TEST METHOD 9 SUS



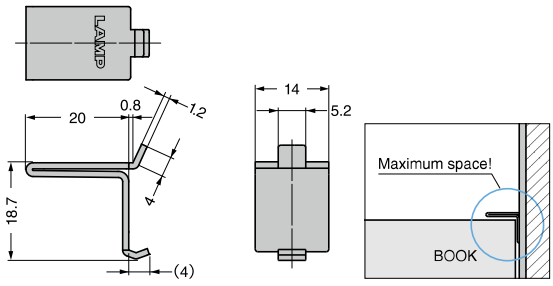
SPF-20


SPF-20WT

- For shelf standard SP, SPS 1.
- Can be firmly installed to shelf standard.
- Designed to maximise the space under the shelf.
- Satin finish with/without protection tape available.

[Remarks]
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.

[Sold Separately]
- Shelf holder SPF-20A 2



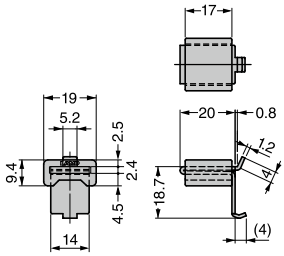
RoHS	CAD	Item Code	Item Name	Type	Material	Finish / Colour	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-116	SPF-20	With Protection Tape	Stainless Steel (SUS304)	Satin	785	80	7	300	3000
G	3D	120-030-117	SPF-20T	Without Protection Tape						300	3000
G	3D	120-030-684	SPF-20WT			White Enamel Finish				300	3000

Refer to 1 : P.771, 2 : P.773

SHELF SUPPORT SPF-20LC For SP, SPS

NSF TEST METHOD 9 TEMPERED GLASS


SPF-20LC SPF-20LC-WT



- For shelf standard SP, SPS 1.
- Shelf level is adjustable by turning the silicone cap upside down.
- Silicone cap prevents glass shelf from sliding.

[Remarks]
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.



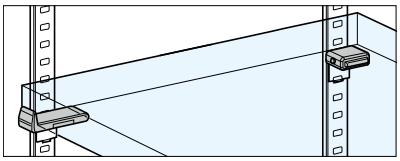
RoHS	CAD	Item Code	Item Name	Material	Finish / Colour	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-335	SPF-20LC	Stainless Steel (SUS304) / Silicone (Q)	Satin/Natural	785	80	9.5	200	2000
G	–	120-044-077	SPF-20LC-WT		White Enamel Finish				200	2000

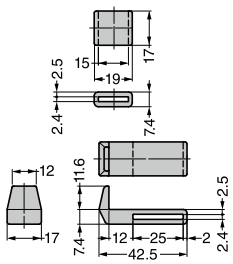
Refer to 1 : P.771

SHELF HOLDER SPF-20A For SPF-20



[Installation]





- To be used together with SPF-20 1.
- Prevents shelf from coming off.

[Remarks]
- Distance from centre of the shelf standard to edge of the shelf board should be within 19mm to 30mm.
- One each of front and back holder as set.

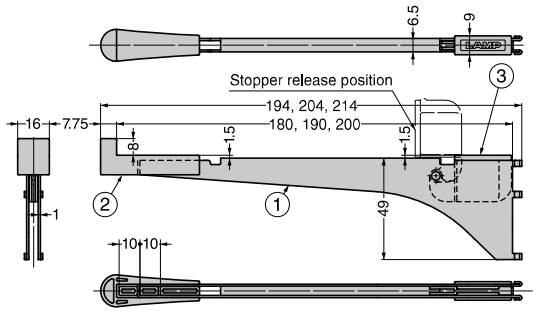
RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-040-548	SPF-20A	PE	White	4	100	2500

Refer to 1 : P.772

SHELF HOLDER SPB-200 For SP, SPS

SUS TEMPERED GLASS



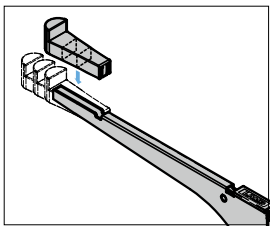


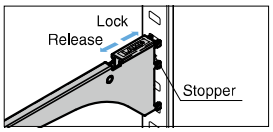
No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SUS304)	Satin
②	Holder	PP	White
③	Stopper		

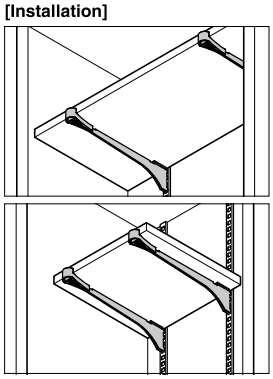
- For shelf standard SP, SPS 1.
- Use 2 or 3 pcs for installing 1 shelf.
- With holder to simply fix shelf.
- Able to adjust depth in 3 different positions.
- With drop off prevention function.
- Can be used for glass shelf.

[Remarks]
- Maximum size of shelf board is Width 900 × Depth 200.
- Load capacity (2 pcs/3 pcs) of below table is the value including the weight of shelf board.
- When fixing shelf standard on wall, please use nominal 3 screws with length above 20mm and install in a position with pillar or other solid substrates.

[Installation]







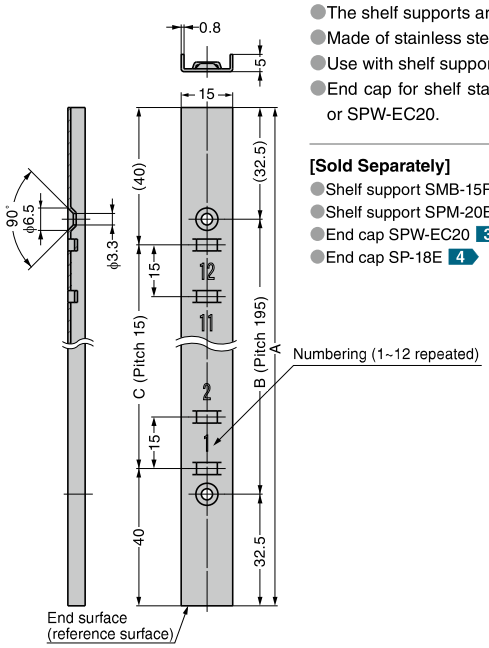
RoHS	CAD	Item Code	Item Name	Load Capacity N/2 pcs	Load Capacity kgf/2 pcs	Load Capacity N/3 pcs	Load Capacity kgf/3 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-022-204	SPB-200	98	10	147	15	65	50	200

Refer to 1 : P.771

SHELF STANDARD SM With Blind

NSF SUS





- With blind to cover mounting hole for shelf support.
- The shelf supports are adjustable every 15mm.
- Made of stainless steel with excellent durability.
- Use with shelf support SMB-15R, SPM-20B (sold separately).
- End cap for shelf standard is sold separately. Please select SP-18E or SPW-EC20.

[Sold Separately]

- Shelf support SMB-15R 1
- Shelf support SPM-20B 2
- End cap SPW-EC20 3
- End cap SP-18E 4

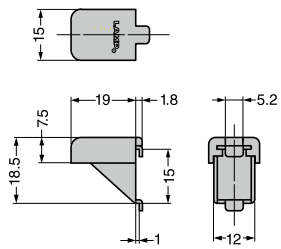
RoHS	CAD	Item Code	Item Name	A	B	C	Material	Finish	Holes	Weight (g)	Box (pcs)	Carton (pcs)
–	3D	120-030-675	SM-1820	1820	1755	1740	Stainless Steel (SUS304)	Satin	10	245	60	–
–	3D	120-030-846	SM-2600	2600	2535	2520			14	352	30	–

Refer to 1 2 : P.774, 3 : P.768, 4 : P.770

SHELF SUPPORT SMB-15R For SM

NSF TEST METHOD 9 SUS





- For shelf standard SM 1.
- Can be attached/detached quickly and firmly.
- Elastomer cover (grey) prevents shelf from sliding.

[Remarks]

- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.

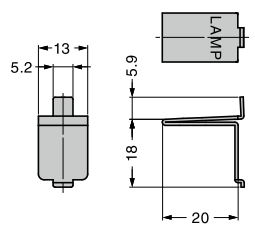
RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-674	SMB-15R	Stainless Steel (SUS304)	Satin	883	90	6	300	3000

Refer to 1 : P.774

SHELF SUPPORT SPM-20B For SM

TEST METHOD 9 SUS

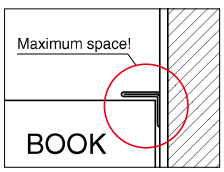




- For shelf standard SM 1.
- Designed to maximise the space under the shelf.

[Remarks]

- By its structure, SPM-20B cannot be installed in the position to hide the mark "12" on shelf standard.
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.

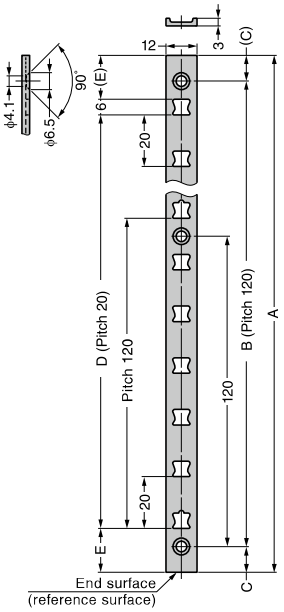


RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-915	SPM-20B	Stainless Steel (SUS304)	Satin	588	60	5	300	3000

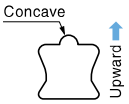
Refer to 1 : P.774

SHELF STANDARD AP-DM Surface Mount





- Easy to cut to desired length.
- Ultra thin shelf standard of 3mm thickness.
- New slot shape to prevent shelf support from falling off.



[Remarks]
- Please install with the concave of mounting hole (every 120mm) upward.
- Noted that scratch is conspicuous on black anodised surface.
- The colour of black anodised finish may vary. Please check with actual item.

[Sold Separately]
- Shelf support AP-FB20 1
- Shelf support cap AP-FC20 2
- End cap AP-EC20 3

[Sold Separately]
Black, Silver, white, and bronze colours are available.



RoHS	CAD	Item Code	Item Name	Screw	Finish
G	–	120-030-336	AP-SC3-16	Countersunk Head Tapping Screw 3×16	Paint/Silver
G	–	120-016-608	AP-SC3-16WT	Countersunk Head Tapping Screw 3×16	Paint/White
–	–	120-014-663	AP-SC3-30	Countersunk Head Tapping Screw 3×30	Paint/Silver
G	–	120-016-606	AP-SC3-30WT	Countersunk Head Tapping Screw 3×30	Paint/White
G	3D	120-028-981	AP-SC3-16BL	Countersunk Head Tapping Screw 3×16	Paint/Black
–	–	120-028-982	AP-SC3-30BL	Countersunk Head Tapping Screw 3×30	Paint/Black
G	–	120-046-010	AP-SC3-16BZ	Countersunk Head Tapping Screw 3×16	Paint/Bronze
G	–	120-046-011	AP-SC3-30BZ	Countersunk Head Tapping Screw 3×30	Paint/Bronze

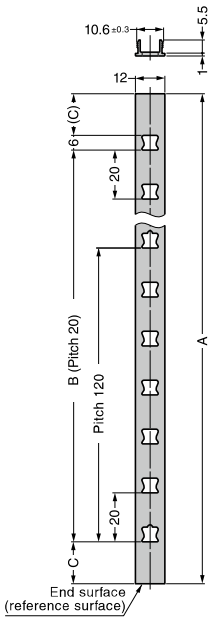
Material	Finish	Box(sets)
Steel	Body: Yellow Zinc Chromate Head: Paint/Silver, White, Black	100

RoHS	CAD	Item Code	Item Name	Type	A	B	C	D	E	Material	Finish	Holes	Carton (pcs)
G	3D	120-030-086	AP-DM1820	Surface Mount	1820	1800	10	1780	17	Aluminium Alloy	Anodised Silver	16	100
–	3D	120-016-209	AP-DM1820WT								White Enamel Finish		100
G	3D	120-025-260	AP-DM1820BL								Black Anodised		100
G	–	120-045-700	AP-DM1820BZ								Anodised Bronze		100
G	3D	120-030-087	AP-DM2600		2600	2520	40	2500	47		Anodised Silver	22	60

Refer to 1 2 3 : P.776

SHELF STANDARD AP-DH Mortise Mount

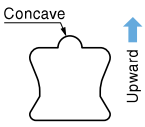




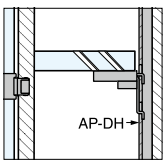
- Easy to cut to desired length.
- Press-fit type without using screws.
- New slot shape to prevent shelf support from falling off.
- Use with shelf support AP-FB20 (sold separately).
- End cap AP-EC20 for shelf standard is sold separately.

[Remarks]
- Please install with the concave of mounting hole (every 120mm) upward.
- Please groove for press-fit according to actual item.
- Noted that scratch is conspicuous on black anodised surface.
- The colour of black anodised finish may vary.Please check with actual item.

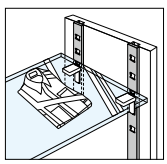
[Sold Separately]
- Shelf support AP-FB20 1
- Shelf support cap AP-FC20 2



[Installation]



[Application Example]



Press-fit mount without using screws for clean appearance.

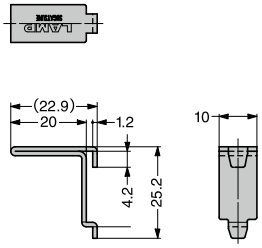
RoHS	CAD	Item Code	Item Name	Type	A	B	C	Material	Finish	Carton (pcs)
G	3D	120-030-088	AP-DH1820	Mortise Mount	1820	1780	17	Aluminium Alloy	Anodised Silver	100
G	3D	120-036-269	AP-DH1820BL						Black Anodised	100
G	–	120-045-701	AP-DH1820BZ						Anodised Bronze	100
G	3D	120-030-089	AP-DH2600		2600	2500	47		Anodised Silver	60

Refer to 1 2 : P.776

SHELF SUPPORT AP-FB20 For AP-DM, AP-DH

TEST METHOD 9 SUS



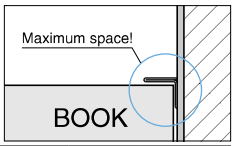


- 3 finishes (Barrel Polished, Black & White) available.
- For shelf standard AP-DM, AP-DH 1.
- Designed to maximise the space under the shelf.

[Remarks]
- Load capacity of below table is the value for 1 shelf board (using 4 shelf supports).
- Clearance between shelf and shelf standard should be less than 1mm.
- Noted that the black or white surface is easily scratched.

[Sold Separately]
- Shelf support cap AP-FC20 2
- Shelf holder AP-FA20 3
- Shelf holder AP-FK20 4
- Dowel AP-FK20C 5

[Application Example]

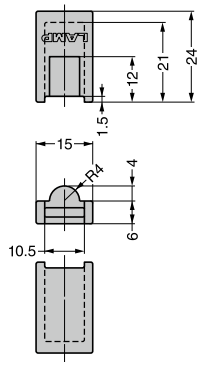


RoHS	CAD	Item Code	Item Name	Material	Finish	Load Capacity N/4 pcs	Load Capacity kgf/4 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-158	AP-FB20	Stainless Steel (SUS430)	Barrel Polished	441	45	5.3	300	3000
G	3D	120-025-835	AP-FB20BL		Black Enamel Finish				300	3000
–	3D	120-036-305	AP-FB20WT		Whtie Paint				300	3000
–	3D	120-046-443	AP-FB20BZ		Bronze				300	3000

Refer to 1 : P.775, 2 : P.776, 3 : P.779, 4 5 : P.780

SHELF SUPPORT CAP AP-FC20 For AP-FB20

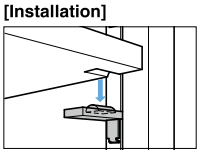




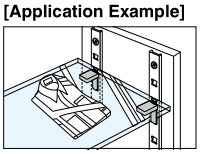
- Light Grey & Black colour available.
- For shelf support AP-FB20 1.
- Ideal for glass shelf.
- Insert the cap with half round shape facing up, and cutout the shelf to prevent from sliding.

[Remarks]
- Noted that the black surface is easily scratched.

[Installation]



[Application Example]

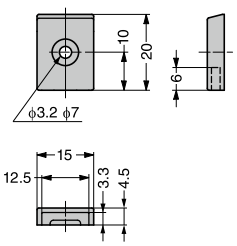


RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-159	AP-FC20-LGR	Elastomer (TPE)	Light Grey	1.6	400	4000
G	3D	120-028-502	AP-FC20-BL		Black	1.0	400	4000
G	3D	120-045-887	AP-FC20-BR		Brown	1.0	400	4000

Refer to 1 : P.776

END CAP AP-EC20 For SPE, AP-DM





- Light Grey & Black colour available.
- For shelf standard SPE 1, AP-DM 2.
- Installed at the end of shelf standard to protect the end surface.
- Stylish design with square shape.

[Remarks]
- Noted that black surface is easily scratched.

[Application Example]



RoHS	CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-030-157	AP-EC20-LGR	ABS	Light Grey	0.8	400	4000
G	3D	120-028-503	AP-EC20-BL		Black	1.0	400	4000
G	3D	120-045-888	AP-EC20-BR		Brown	1.0	400	4000

Refer to 1 : P.766, 2 : P.775

STORAGE TRAY FOR SHELF STANDARD AP-SB350-SL For AP-DM

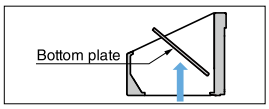
INSTRUCTION



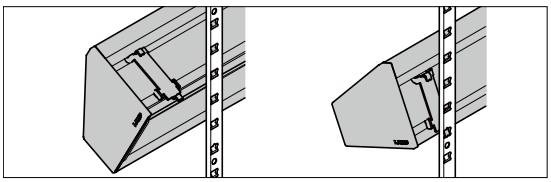
- Designed to install to the shelf standard for storing small articles.
- Can be used as a towel rack when bottom plate is removed.
- Recommended to install on the back side of the cabinet door using heavy duty concealed hinge J95.

[Application Example] With bottom plate removed





[How to Install]



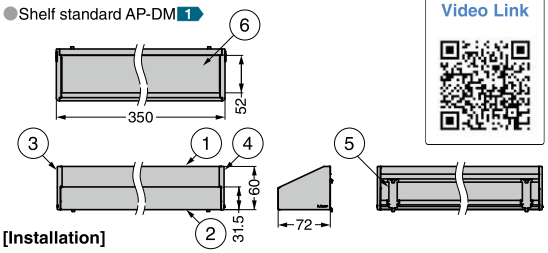
[Remarks]

- The spacing between shelf standards shall be within 320mm.
- Before attaching/detaching the product or removing the bottom plate, please read the label attached to the product or the installation instruction on our website.
- After installation, check if the upper end of the box and A part is as shown in the detail A. Covering of the holes in the shelf standard or bending of the box may cause falling. In this case, please remove and install it once again.

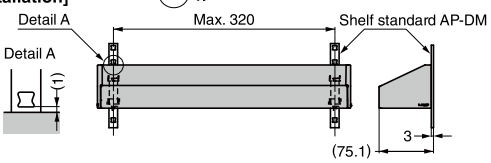
[Sold Separately]

- Shelf standard AP-DM 1

Video Link



[Installation]



No.	Part Name	Material	Finish / Colour
①	Base Plate A	Aluminium Alloy	Anodised Silver
②	Base Plate B		
③	End Cap L	ABS	White
④	End Cap R		
⑤	Bracket	Stainless Steel (SUS304)	Barrel Polished
⑥	Bottom Plate	Aluminium Alloy	Anodised Silver

RoHS	CAD	Item Code	Item Name	Load Capacity N/pc	Load Capacity kgf/pc	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-036-232	AP-SB350-SL	49	5	540	1	20

Refer to 1 : P.775

PLATE FOR SHELF STANDARD AP-SP345-SL For AP-DM

INSTRUCTION

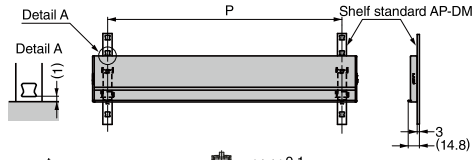


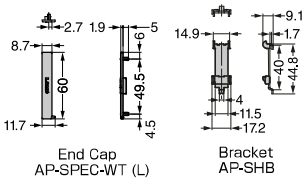
- Designed to install to the shelf standard for hanging hooks.
- Installation method is the same as the box 1.

[Remarks]

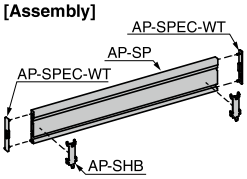
- The spacing between shelf standards shall be within 320mm.
- Before attaching/detaching the product or removing the bottom plate, please read the label attached to the product or the installation instruction on our website.
- After installation, check if the upper end of the plate and A part is as shown in the detail A.Covering of the holes in the shelf standard or bending of the plate may cause falling.In this case, please remove and install it once again.

[Installation]



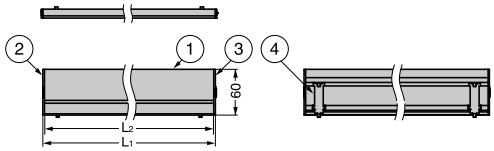


[Assembly]



[Sold Separately]

- Bracket AP-SHB
- End Cap AP-SPEC-WT
- Shelf Standard AP-DM 2
- Hook for shelf standard AP-SH-WT 3
- Pipe socket (holder) for shelf standard AP-S32PS 4



No.	Part Name	Material	Finish / Colour
①	Base Plate A	Aluminium Alloy	Anodised Silver
②	End Cap L	ABS	White
③	End Cap R		
④	Bracket	Stainless Steel (SUS304)	Polished

[Plate]

RoHS	CAD	Item Code	Item Name	L_1	L_2	P (Max.)	Plate Cutting	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-036-233	AP-SP345-SL	345	341.2	320	Not necessary	219	1	40
G	3D	120-041-355	AP-SP1480-SL	–	1480	–	Necessary	951	10	–

[Bracket] Sold Separately

RoHS	CAD	Item Code	Item Name	Material	Finish	Box (sets)	Carton (sets)
G	3D	120-041-479	AP-SHB	Stainless Steel (SUS304)	Barrel Polished	500	–

Refer to 1 : P.777, 2 : P.775, 3 4 : P.778

[End Cap] Sold Separately

RoHS	CAD	Item Code	Item Name	Material	Finish	Box (sets)	Carton (sets)
G	3D	120-041-480	AP-SPEC-WT	ABS	White	500	–

※The AP-SP345-SL comes in a set with 2 end caps and 2 brackets.
※The AP-SP1480-SL comes without additional products. Please order additional products as many as you need.

HOOK FOR SHELF STANDARD AP-SH-WT For AP-DM

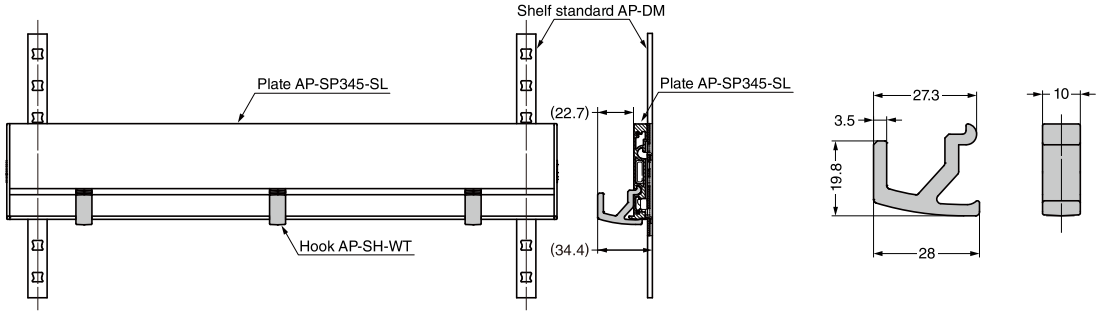
- Designed to install to the plate for shelf standard AP-SP345-SL 1.

[Remarks]
- Up to 5 hooks can be installed to 1 plate.

[Sold Separately]
- Shelf standard AP-DM 2
- Plate for shelf standard AP-SP345-SL 1

Video Link

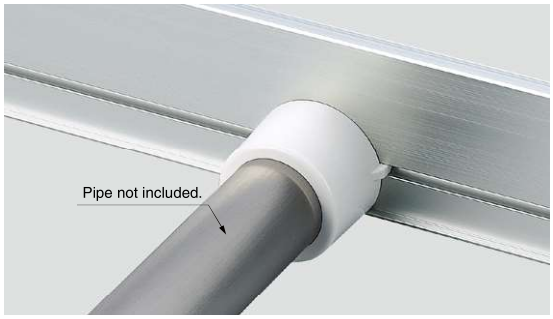
[Installation]



RoHS	CAD	Item Code	Item Name	Material	Colour	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-036-234	AP-SH-WT	ABS	White	9.8	1	2	60	600

Refer to 1 : P.777, 2 : P.775

PIPE SOCKET FOR SHELF STANDARD AP-S32PS For AP-DM



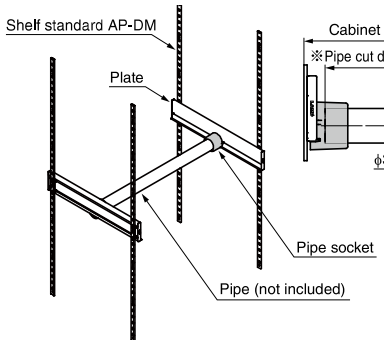
- Used for installing hanger pipe to the plate for shelf standard AP-SP345-SL 1.
- Sold in pairs.

[Remarks]
- 4 shelf standards and 2 plates are required for installing a hanger pipe with this product.
- Hanger pipe not included.
- For hanger pipe length, please contact local representatives.
- Up to 2 pcs of pipe sockets can be installed on 1 pair of plates.

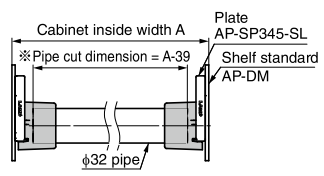
[Sold Separately]
- Shelf standard AP-DM 2
- Plate for shelf standard AP-SP345-SL 1

Video Link

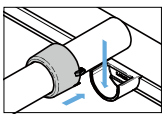
[Installation Example]

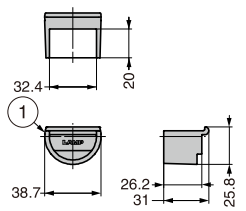


[Installation]

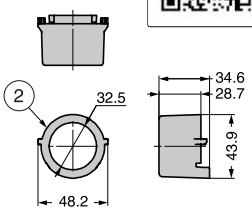


[How to Install]





Pipe socket body



Pipe socket retainer

No.	Part Name	Material	Finish / Colour
①	Pipe Socket Body	Zinc Alloy (ZDC)	Clear Zinc Chromate (Trivalent)
②	Pipe Socket Retainer	ABS	White

RoHS	CAD	Item Code	Item Name	Pipe Dia.	Load Capacity N/set	Load Capacity kgf/set	Weight (g)	Box (sets)	Carton (sets)
G	3D	120-036-235	AP-S32PS	32	441	45	57	8	80

Refer to 1 : P.777, 2 : P.775

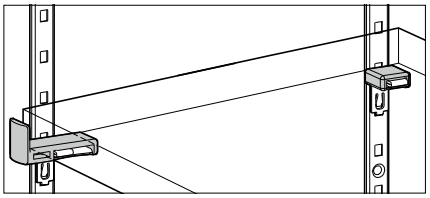
SHELF HOLDER AP-FA20 For SPE, AP-DM, AP-DH



- Use with SPE-FB20S 1, AP-FB20 2.
- Prevents shelf from coming off.

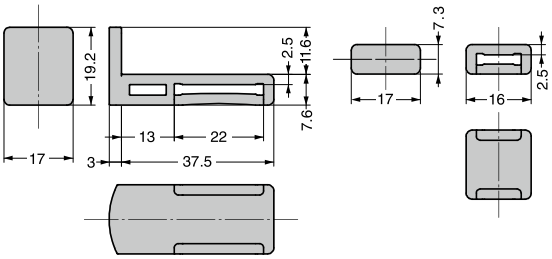
[Remarks]
- Sold in sets (2 parts). 2 sets are necessary for 1 shelf.

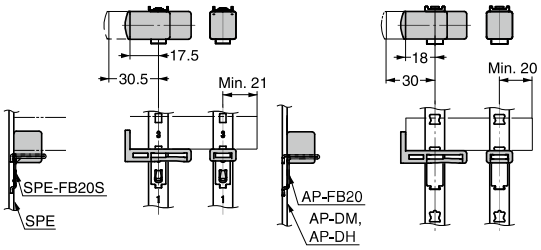
[Installation]



For shelf standard SPE 1

For shelf standard AP-DM, AP-DH 3





RoHS	CAD	Item Code	Item Name	Colour	Material	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-024-539	AP-FA20-WT	White	PE	4.9	100	2500
G	3D	120-026-164	AP-FA20-BL	Black			100	2500

Refer to 1 : P.766, 2 : P.776, 3 : P.775

Shelf Support	Board Thickness	Distance (Centre of the shelf standard to edge of the shelf board)
AP-FB20	Min. 12	18 ~ 30
SPE-FB20S	Min. 12	17.5 ~ 30.5
SPE-FB20SWT	Min. 12	17.5 ~ 30.5

SHELF SUPPORT HOOK AP-FK20D For SPE, AP-DM, AP-DH

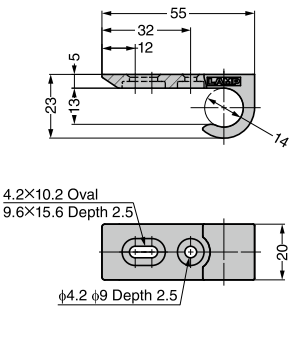


- Shelf support hook to be used with dowel AP-FK20C 1 and shelf support.
- Recommended angle: 0~60°.
- Installed on the back side of shelf with screws.
- Temporary holding feature.

[Remarks]
- Used in pairs.
- Dowel AP-FK20C and shelf support are sold separately. 4 pcs are necessary for 1 shelf.
- The supplied screws are suitable for board thickness above 18mm. Please prepare screws separately depending on the board thickness used.

[Parts Included]
- Truss head tapping screw 4×16 (SUS) 2 pcs.

[Sold Separately]
- Dowel AP-FK20C 1



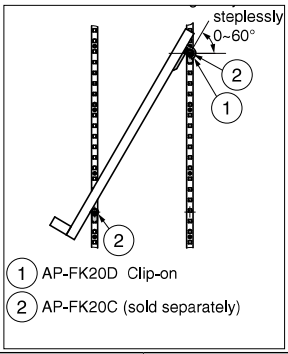
[Installation]



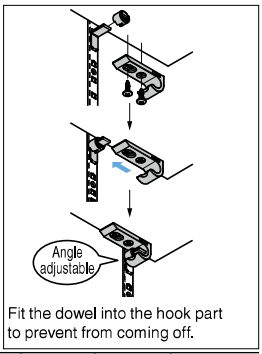
[Application Example]



[Application Example]



[How to Install]

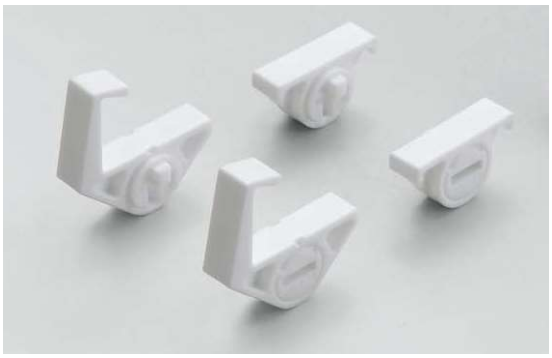


RoHS	CAD	Item Code	Item Name	Material	Colour	Board Thickness	Load Capacity N※	Load Capacity kgf※	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	120-030-482	AP-FK20D	POM	White	Min. 18	294	30	11.2	40	400

Refer to 1 : P.780

※AP-FK20D × 2 pcs. / Angle: 60°

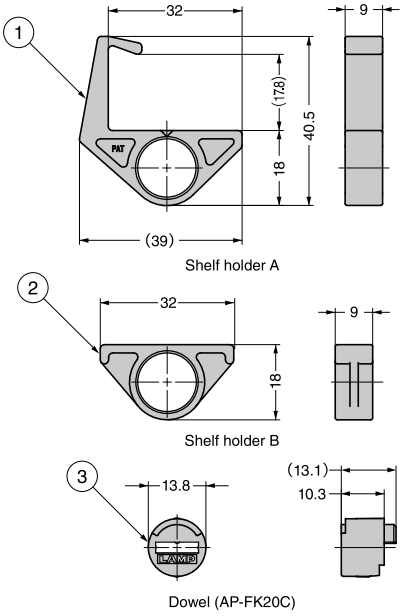
SHELF HOLDER WITH ANGLE ADJUSTING FUNCTION AP-FK20 For SPE, AP-DM, AP-DH



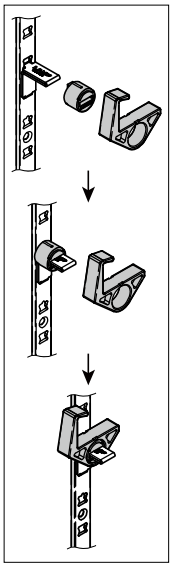
●Use with SPE-FB20S 1, AP-FB20 2.

[Remarks]
●Sold in sets (① 2 pcs, ② 2 pcs, ③ AP-FK20C 4 pcs).
●To prevent shelf from falling, please order 2 dowels (AP-FK20C) for 1 shelf separately 3.

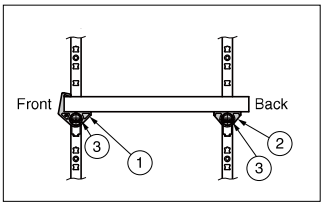
[Sold Separately]
●Dowel AP-FK20C 3.

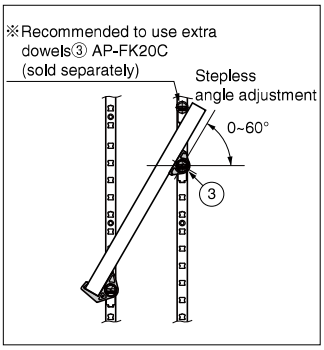


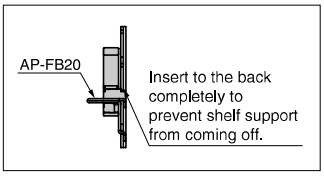
[How to Install]



[Application Example]







[Installation]





[Application Example]



No.	Part Name	Colour	Material
①	Shelf holder A	White	POM
②	Shelf holder B		
③	Dowel		PE

RoHS	CAD	Item Code	Item Name	Board Thickness	Load Capacity N/set	Load Capacity kgf/set	Weight (g)	Box (sets)	Carton (sets)
—	3D	120-024-536	AP-FK20	18~20	98	10	20	200	600

Refer to 1 : P.766, 2 : P.776, 3 : P.780 ※Angle: 60°

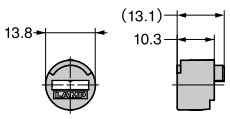
DOWEL AP-FK20C For SPE, AP-DM, AP-DH

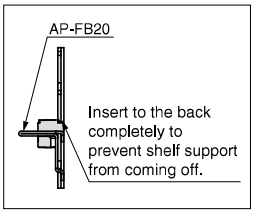


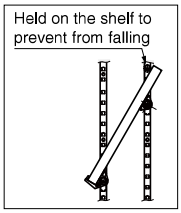
[Installation]



●Use together with SPE-FB20S 1 or AP-FB20 2.







RoHS	CAD	Item Code	Item Name	Colour	Material	Weight (g)	Box (pcs)	Carton (pcs)
—	3D	120-024-538	AP-FK20C	White	PE	1	1000	5000

Refer to 1 : P.766, 2 : P.776

SHELF HOLDER AP-FB120 For AP-DM

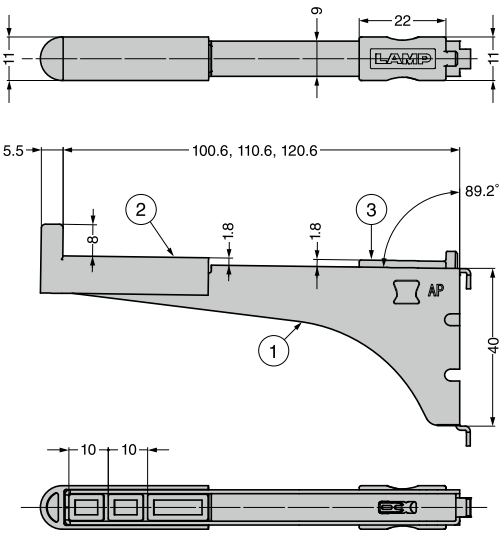
SUS TEMPERED GLASS

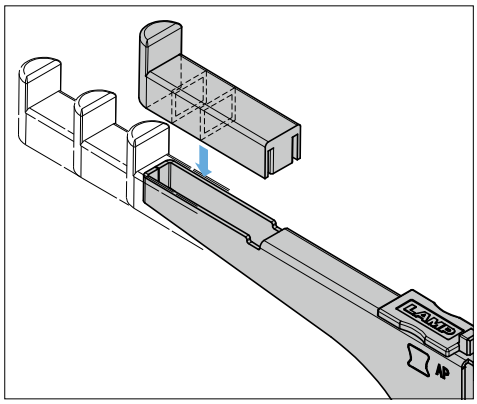


- For shelf standard AP-DM 1.
- Use 2 pcs for installing 1 shelf.
- With holder to simply fix shelf.
- Able to adjust depth in 3 different positions.
- With drop off prevention function.
- Can be used for glass shelf.

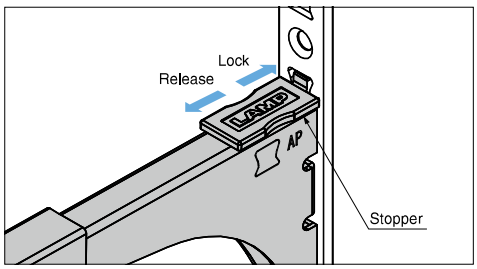
[Remarks]

- Maximum size of shelf board is Width 900 mm × Depth 120 mm.
- Load capacity of below table is the value including the weight of shelf board.
- When fixing shelf standard on wall, please use nominal 3 screws with length above 20mm and install in a position with pillar or other solid substrates.





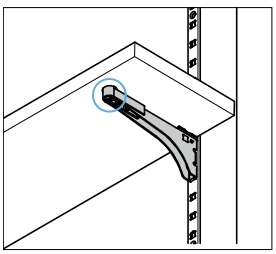
Depth is adjustable in 3 different positions.

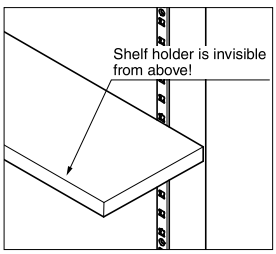


No.	Part Name	Material	Finish / Colour
①	Body	Stainless Steel (SUS430)	Satin
②	Holder	PP	White
③	Stopper		

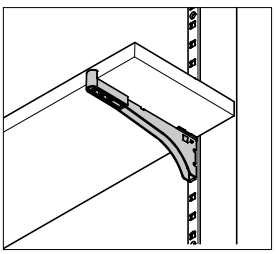
[Application Example]

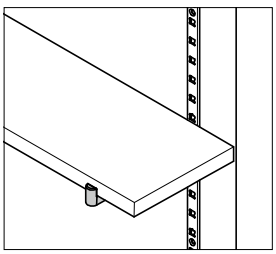
■With Dowel Hole





■Without Dowel Hole





RoHS	CAD	Item Code	Item Name	Shelf Depth	Load Capacity N/2 pcs	Load Capacity kgf/2 pcs	Weight (g)	Box (pcs)	Carton (pcs)
G	3D	120-032-997	AP-FB120	Max. 120	49	5	33	20	200

Refer to 1 : P.775

Understandable! Selectable! Usable!

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