

SUGATSUNE

Manufacturer of LAMP brand products.

DOOR SYSTEMS

DIVISION 8

Architectural Hardware Selection No.465A



Sugatsune Premium Door Hardware Selection.

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Manufacturer of LAMP® brand products.

If you are in the residential or commercial building industry then we are sure you have seen the LAMP® logo on all our products. For more than 90 years Sugatsune has manufactured LAMP® brand components while innovating unique movements, materials and designs.

We look forward to continuing this great tradition of creating **convenience and satisfaction** for many years to come.

What to look for!

THE NEW FD120 POCKET DOOR SYSTEM

A sliding door system engineered for effortless access, opening with less than 5 lbs. of force, and featuring built-in soft open/close damping for smooth, controlled motion. **Read more pg. 32.**

THE NEW SURFACE MOUNT CONCEALED HINGE, THE HES2S-150

This adjustable concealed hinge let's you install a concealed hinge by surface mounting it on the frame, available for 1-3/8" door width. **Read more pg. 14.**

OUR NEW ML-ZN130 PUSH-TO-OPEN DOOR LATCH

This small but mighty latch is able to push a door up to 275 lbs Easy to install y durable and very discrete. Available in white, black, and brown finishes. **Read more pg. 73.**

CATALOG DISCLAIMER: Specifications, features, illustrations, certifications and materials shown in this catalog are based upon the latest available information at the time of publication. Although descriptions are believed to be correct, accuracy cannot be guaranteed. Sugatsune reserves the right to make changes at any time, without notice or obligation, in finishes, materials, sizes, specifications and availability and disclaims any and all liability for typographical, printing or production errors or changes affecting the products and/or specifications contained herein.

Actual performance of products may vary based upon many factors and may be less than stated. Differences in construction and build materials, designs or configurations may affect product performance and therefore, the customer is solely responsible for making the final selection of the product(s) to be used and to assure that all performance, safety and warning requirements of the application are satisfied.





Hide the door, show your style!

Our push-to-open latches compliment our concealed hinges perfectly to create the ideal hidden door, pair them with our modern decorative hooks and you have completed the look. Available in several finishes to maintain a clean, modern and minimalistic look.



It's designed to do this!

All hinges in the HES Series include

3-way Adjustability,

assuring a perfectly fitting door every time.

The HES Hinge Series is designed with a

Hinge Separation Feature

that makes installation, door upgrade, and adjustments a breeze.

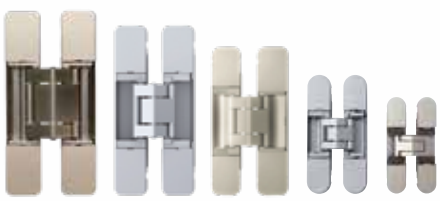


Every hinge in the HES Series

Includes Cover Caps

allowing for a clean & sleek look. This means no screws will be showing.

Five finishes and six sizes for doors and cabinets, all with the same features.



Some of the Best Designs are Hidden!

SUGATSUNE

In 1992, Sugatsune introduced the **Adjustable Hidden Door Hinge.** Today we offer many ways to help create a perfect hidden door that the entire family will enjoy!

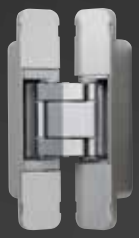
Visit **sugatsune.com** for more details.





Sugatsune, manufacturer of **LAMP**® brand products.

sugatsune.com



The Constantly Evolving
HES3D Concealed Hinge.
Fully adjustable, with a
temporary holding feature.
Available in 5 sizes.



The **HINGE** that started a **MOVEMENT.**

SUGATSUNE



The Next Level System

HES1F Slim Frame Hinge. A frame & hinge system with the features of the HES Series.

CONTACT US FOR AVAILABILITY



The Innovative

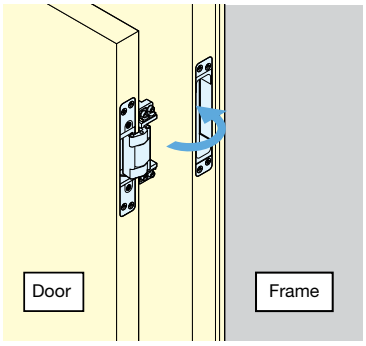
HES2S Surface Mount Concealed Hinge. Adjustable, durable. Surface mounts to frame.



Concealed Hinges HES3D Series

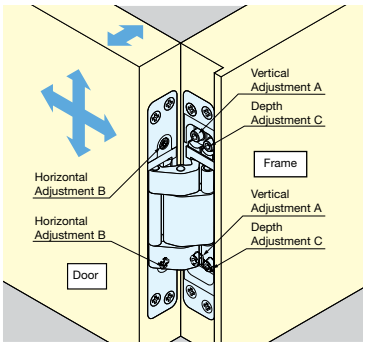
EASY INSTALLATION

Here's why, Sugatsune's HES3D series hinges incorporate a feature that allows the hinge leaves to separate. One leaf is installed in the door frame, while the other is installed into the door itself. You can then install and adjust the door at any time.



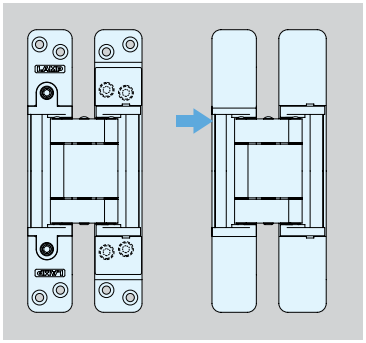
3-WAY ADJUSTABLE FEATURE

HES3D series hinges have vertical, horizontal, and depth adjustment features, so if your door isn't perfectly aligned on the first try, this feature allows adjustments in each of the three directions.



OVERALL LOOK

HES3D series hinges feature squared shape and round corners, comes with cover caps to hide all screws on the face of the hinge, so when your hinge is installed, it has a clean, sleek appearance.



MORE TOOLS

To make installation easier, the HES3D series and many of our other hinges are available with in the Shaper Origin, a high precision handheld CNC router. It has the familiar form factor of a traditional router, with the accuracy of a high-end CNC machine.

AVAILABLE ON SHAPER | HUB



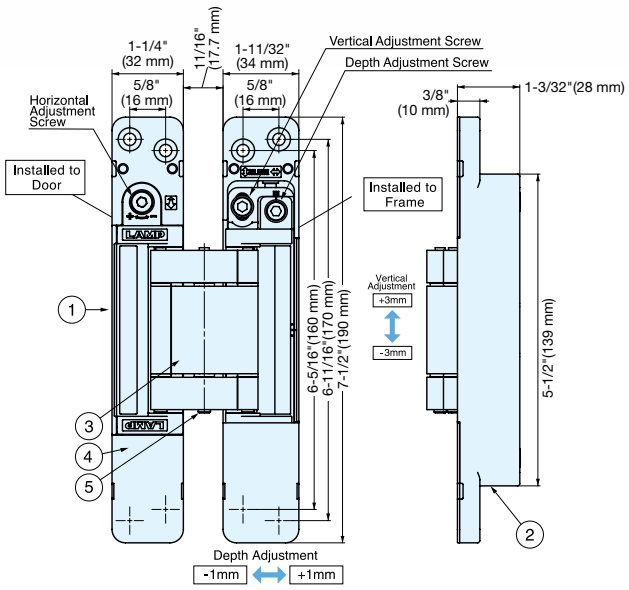
3-WAY ADJUSTABLE CONCEALED HINGE

RoHS compliant

HES3D-E190



HES3D-E190DGR-UL | HES3D-E190DC-UL | HES3D-E190DN-UL | HES3D-E190BL-UL | HES3D-E190PN-UL | HES3D-E190WT-UL



- 3-WAY adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- Easy installation with Lift-off feature: can be split into two parts (one for the frame and one for the door), can temporarily be hung and hold position without being affixed with screws.
- Successfully passed 300,000 open/close private cycle tests.
- Supplied with steel flat head screw.
- Compatible with 1-3/4" (44 mm) Door Thickness.
- Bracket for sheet metal doors/frames available, sold separately (HES3D-E190BKT-F).
- **UL® Listed** with **3 hour fire rating.**

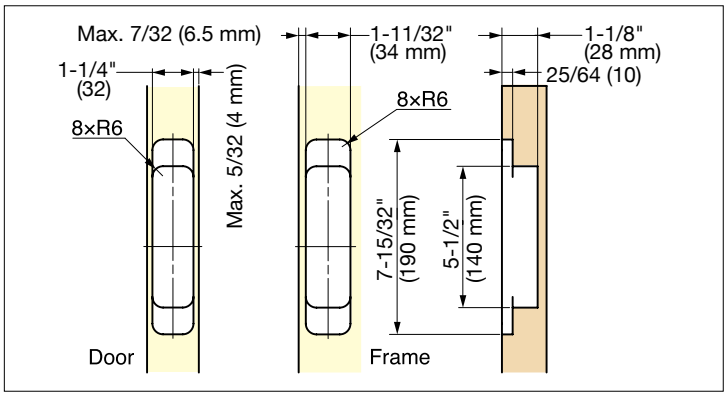
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AVAILABLE ON SHAPER|HUB

Denpo

See pages 18-19 for more details on Denpo reusable templates .

No.	Part Name	Material	Finish/Color
1	Body	Zinc Alloy	Dark Grey (DGR) Dull Chrome (DC) Dull Nickel (DN) Matte Black (BL) Polished Nickel (PN) White (WT)
2	Base Frame	Zinc Alloy	
3	Arm	Aluminum Alloy	
4	Cover	ABS	
5	Pin	304 Stainless Steel	-



Item No.	Finish	Door Width	Door Height	Door Thickness	Door Weight 2 pcs	Door Weight 3 pcs	Opening Angle	Weight (g)
HES3D-E190DGR-UL	Dark Grey	Max. 36" (915 mm)	Max. 94-1/2" (2400 mm)	Min. 1-1/2" (38 mm)	Max. 220 lbs (100 kg)	Max. 275 lbs (125 kg)	180°	1050
HES3D-E190DC-UL	Dull Nickel							
HES3D-E190DN-UL	Matte Black							
HES3D-E190BL-UL	Polished Nickel							
HES3D-E190PN-UL	Dull Chrome							
HES3D-E190WT-UL	White							

3-WAY ADJUSTABLE CONCEALED HINGE

For Door Moldings

RoHS compliant

HES3D-W190



HES3D-W190DGR-UL



HES3D-W190DC-UL



HES3D-W190DN-UL



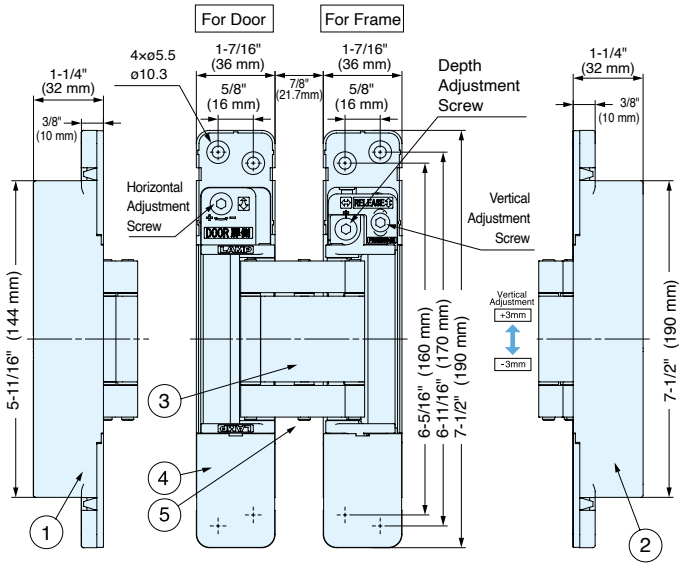
HES3D-W190BL-UL*

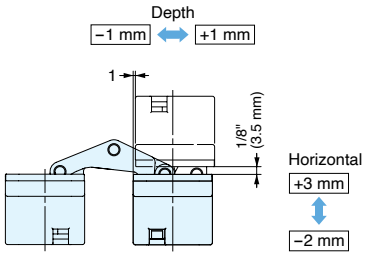


HES3D-W190PN*



HES3D-W190WT*





c UL us LISTED

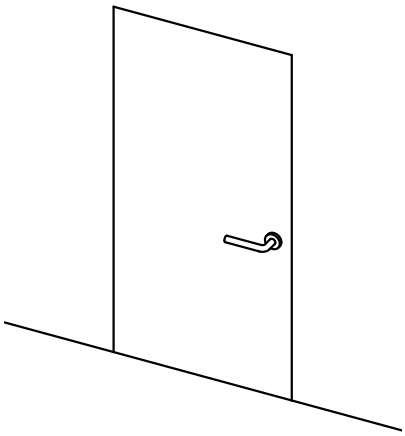
Select models only

- Has a long arm for a wider throw, allowing 3/8" (10 mm) clearance for flush installation or 1/2" (13 mm) clearance for installation with a molding. Opens to 180°.
- Features 3-way adjustability (vertical, horizontal and depth).
- Flanges come apart for the door to be provisionally hung for making adjustments. This provides a quick and easy installation when ready for fixing screws.
- Replacement screw covers available for all finishes.
- *Only the HES3D-W190PN model includes metal cover plates, all other models include plastic cover plates.
- Supplied with steel flat head screw.
- **UL® Listed** with **3 hour fire rating** (DGR, DC, DN, WT, and BL).

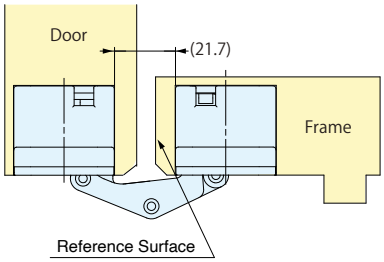
No.	Part Name	Material	Finish/Color
1	Body	Zinc Alloy	Dark Grey (DGR) Dull Chrome (DC) Dull Nickel (DN) Matte Black (BL) Polished Nickel (PN) White (WT)
2	Base Frame	Zinc Alloy	
3	Arm	Aluminum Alloy	
4	Cover	ABS or Stainles Steel	
5	Pin	304 Stainless Steel	-

Item No.	Finish	Door Width	Door Height	Door Thickness	Door Weight 2 pcs	Door Weight 3 pcs	Opening Angle	Weight (g)
HES3D-W190DGR-UL	Dark Grey	Max. 36" (915 mm)	Max. 96-1/6" (2440 mm)	Min. 1-5/8" (42 mm)	Max. 220 lbs (100 kg)	Max. 275 lbs (125 kg)	180°	1231
HES3D-W190DC-UL	Dull Chrome							
HES3D-W190DN-UL	Dull Nickel							
HES3D-W190BL-UL	Matte Black							
HES3D-W190PN	Polished Nickel							
HES3D-W190WT-UL	White							

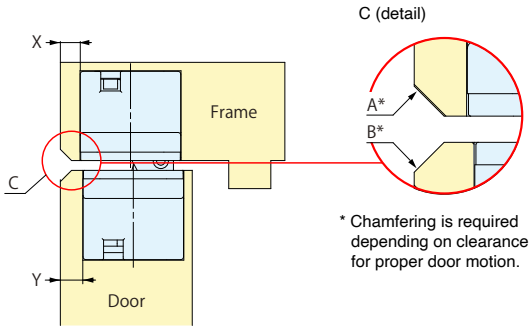
Flush Installation



●Open



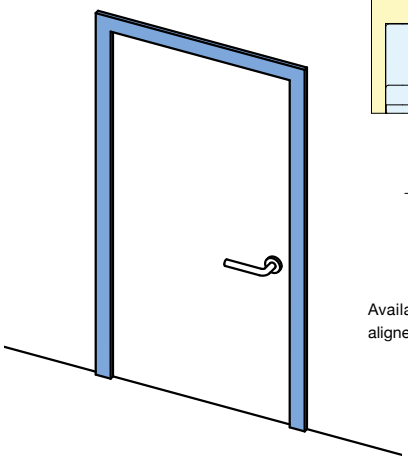
●Closed



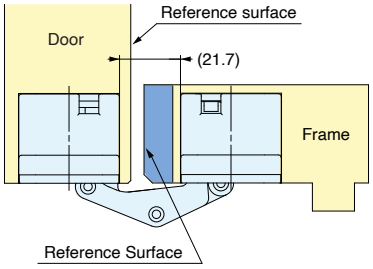
* Chamfering is required depending on clearance for proper door motion.

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

Installation with Molding



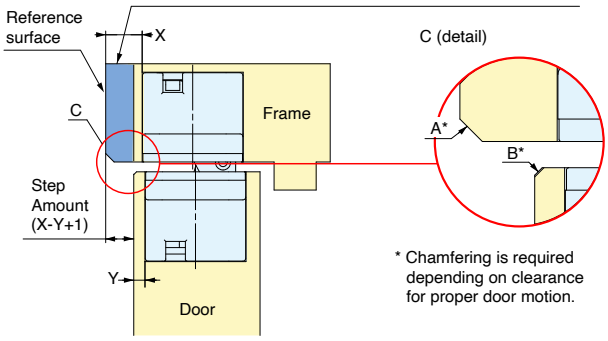
●Open



Available on doors that are not aligned flush to the wall or frame.

●Closed

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



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

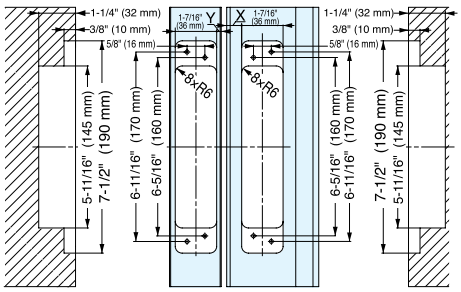
SHAPER HUB

Denpo

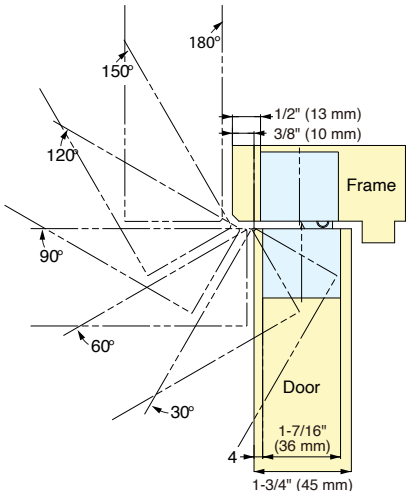
See pages 18-19 for more details on Denpo reusable templates .

WATCH INTRO

Cut Out Dimension



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



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

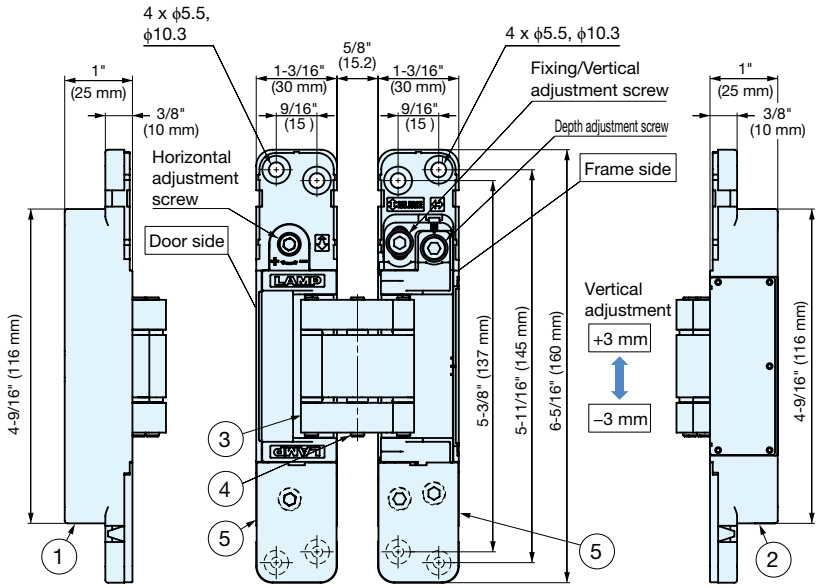
3-WAY ADJUSTABLE CONCEALED HINGE

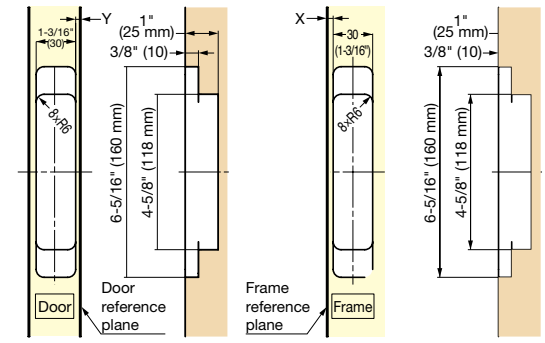
HES3D-E160

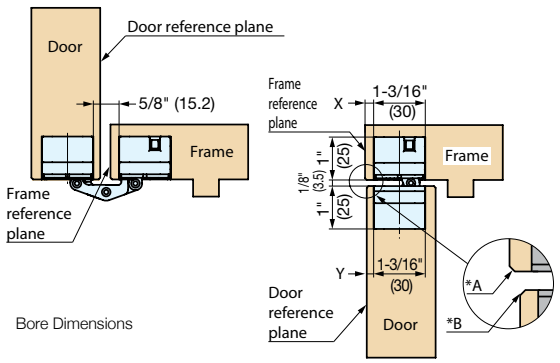


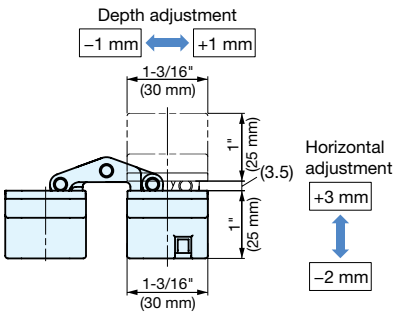
HES3D-E160DC HES3D-E160DN HES3D-E160BL

- 3-WAY adjustment function allows vertical, horizontal, and depth adjustment after the hinge is installed.
- Easy installation and adjustment.
- Supplied with steel flat head screw.
- Covers hide all screw heads for a clean appearance.
- Compatible with 1-3/4" (44 mm) Door Thickness.
- Successfully passed 300,000 open/close private cycle tests.









AVAILABLE ON SHAPER HUB

Denpo

See pages 18-19 for more details on Denpo reusable templates .

No.	Part Name	Material	Finish/Color
1	Body	Zinc Alloy	Dull Chrome (DC), Dull Nickel (DN), Black (BL)
2	Base Frame		
3	Arm	Aluminum	
4	Pin	304 Stainless Steel	-
5	Cover	ABS	Dull Chrome (DC), Dull Nickel (DN), Black (BL)

Item No.	Finish	Door Width	Door Height	Door Thickness	Door Weight 2 pcs	Door Weight 3 pcs	Opening Angle	Weight (g)
HES3D-E160DC	Dull Chrome	Max. 35-7/16" (900 mm)	Max. 94-1/2" (2400 mm)	Min. 1-7/16" (36 mm)	Max. 121 lbs (55 kg)	Max. 154 lbs (70 kg)	180°	760
HES3D-E160DN	Dull Nickel							
HES3D-E160BL	Black							

3-WAY ADJUSTABLE CONCEALED HINGE

RoHS compliant

HES3D-120



HES3D-120DC

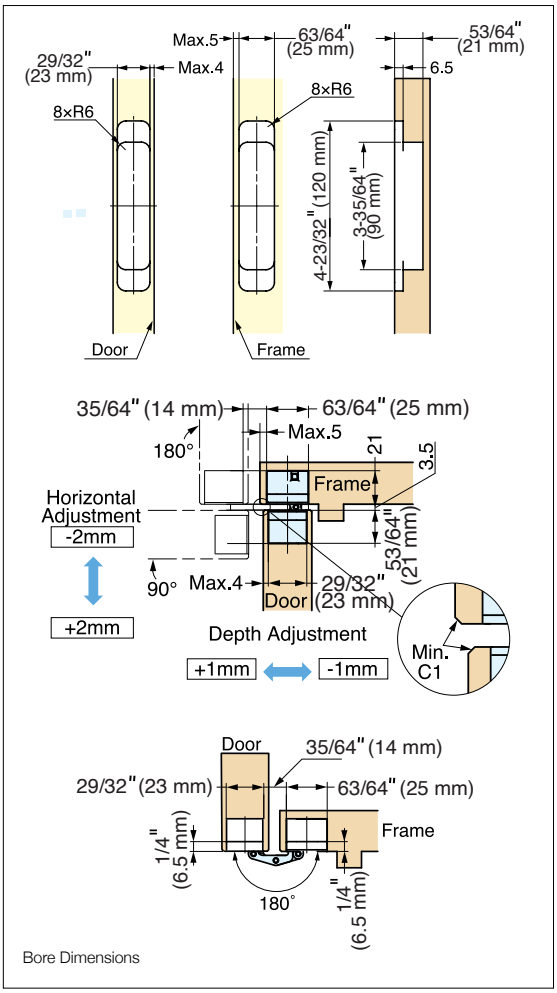


HES3D-120DN

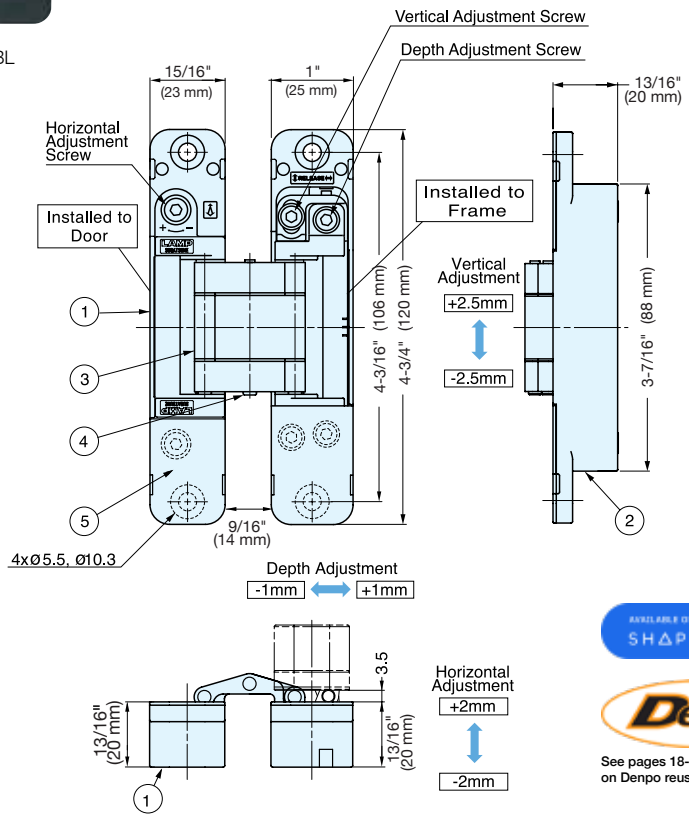


HES3D-120BL

- 3-WAY adjustment function allows vertical, horizontal, and depth adjustment after the hinge is installed.
- Easy installation and adjustment.
- Supplied with steel flat head screw.
- Covers hide all screw heads for a clean appearance.
- Bracket for sheet metal available (HES3D-120BKT).
- Successfully passed 300,000 open/close private cycle tests.



Bore Dimensions



AVAILABLE ON SHAPER HUB

Denpo

See pages 18-19 for more details on Denpo reusable templates .

No.	Part Name	Material	Finish/Color
1	Body	Zinc Alloy	Dull Chrome (DC), Dull Nickel (DN), Black (BL)
2	Base Frame		
3	Arm		
4	Pin	304 Stainless Steel	-
5	Cover	ABS	Dull Chrome (DC), Dull Nickel (DN), Black (BL)

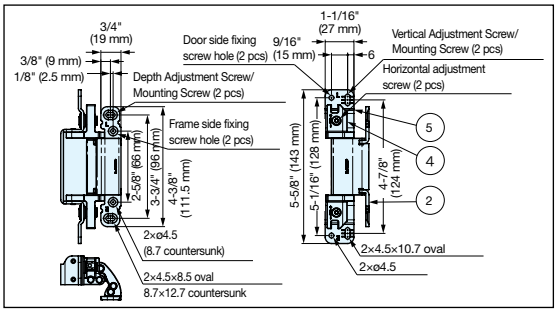
Item No.	Finish	Door Width	Door Height	Door Thickness	Door Weight 2 pcs	Door Weight 3 pcs	Opening Angle	Weight (g)
HES3D-120DC	Dull Chrome	Max. 35-7/16" (900 mm)	Max. 94-1/2" (2400 mm)	Min. 1-1/8" (29 mm)	Max.66 lbs (30 kg)	Max. 88 lbs (40 kg)	180°	380
HES3D-120DN	Dull Nickel							
HES3D-120BL	Black							

ADJ. CONCEALED HINGE Surface Mount on Frame — HES2S-150-A110



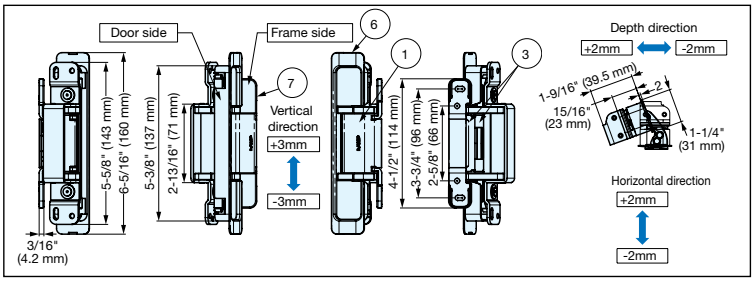


- Surface mounts to the door frame for easy installation.
- Minimum door thickness is 1-3/8" (35 mm) or more.
- Opens to 110°, requires door stopper. Use in combination with SAS-V Door Stopper to maintain minimalistic design.
- Center mounting the hinge on a 1-3/8" (35 mm) door allows the door to be installed as a right-handed or left-handed door.
- 3D ADJUSTABLE: D± 3mm, V± 3mm, H± 1mm.
- Sturdy design combined with an exceptionally simple install.
- Passed 300,000 open/close private cycles.



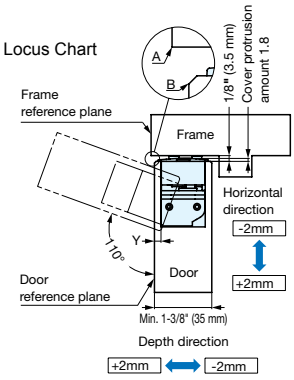
New for 1⅜" THICK DOORS

110° Opening (With Cover)



See pages 18-19 for more details on Denpo reusable templates .

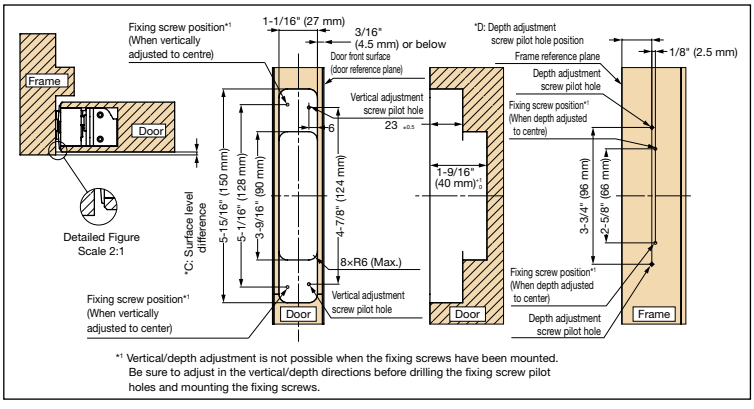
Locus Chart



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

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

Cut Out Dimensions — Drill pilot holes at the positions of the adjustment and locating screws.



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

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

Item No.	Finish	Door Width	Door Height	Door Thickness	Door Weight 2 pcs	Door Weight 3 pcs	Opening Angle
HES2S-150-A110-WT	White	Max. 35-7/16" (900 mm)	Max. 106-5/16" (2700 mm)	Min. 1-3/8" (35 mm)	Max. 88 lbs (40 kg)	Max. 110 lbs (50 kg)	110°
HES2S-150-A110-BL	Black						
HES2S-150-A110-WGR	Warm Grey						

ADJ. CONCEALED HINGE Surface Mount on Frame

RoHS compliant

HES2S-140-A125



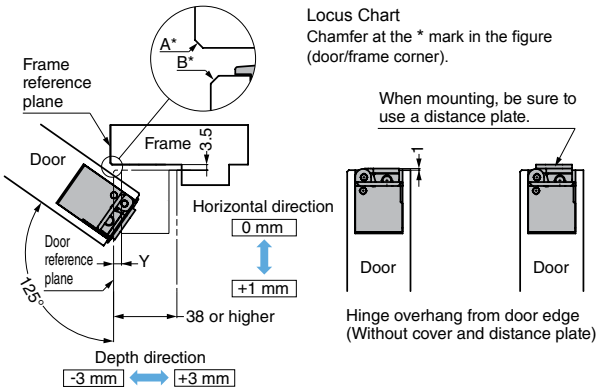
Matte Black

Dark Grey

Light Grey

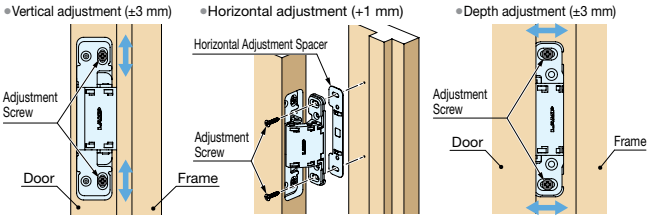
- Surface mounts to the door frame for easy installation.
- Minimum door thickness is 1-1/2" (38 mm).
- Opens to 110°, requires door stopper. Use in combination with SAS-V Door Stopper to maintain minimalistic design.
- 3D ADJUSTABLE: D ± 3mm, V ± 3mm, H ± 1mm.
- Compact and sturdy design combined with an exceptionally simple install.
- Passed 300,000 open/close private cycles.





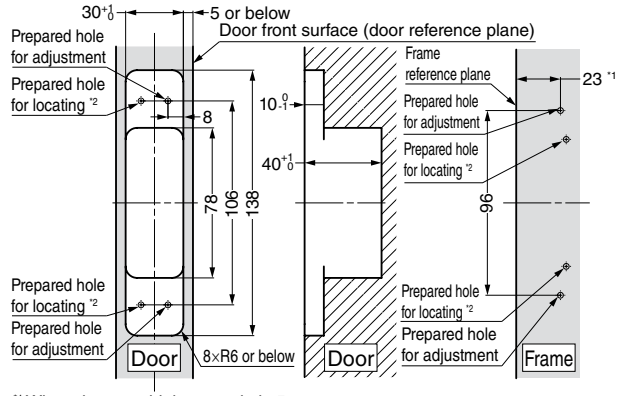
Y: Door Machining Margin	B: Door chamfering	A: Frame chamfering
4 or below	1 or higher	1 or higher
5		

Door Position Adjustment



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

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



*1 When door machining margin is 5 mm.

AVAILABLE ON SHAPER HUB

Denpo

See pages 18-19 for more details on Denpo reusable templates .

Item No.	Finish	Door Width	Door Height	Door Thickness	Door Weight 2 pcs	Door Weight 3 pcs	Opening Angle
HES2S-140-A125-DGR	Dark Grey	Max. 35-7/16" (900 mm)	Max. 106-5/16" (2700 mm)	Min. 1-1/2" (38 mm)	Max. 110 lbs (50 kg)	Max. 143 lbs (65 kg)	125°
HES2S-140-A125-LGR	Light Grey						
HES2S-140-A125-BL	Matte Black						

ADJUSTABLE STAINLESS STEEL CONCEALED HINGE

STAINLESS 304 STEEL

HGS3D-S160



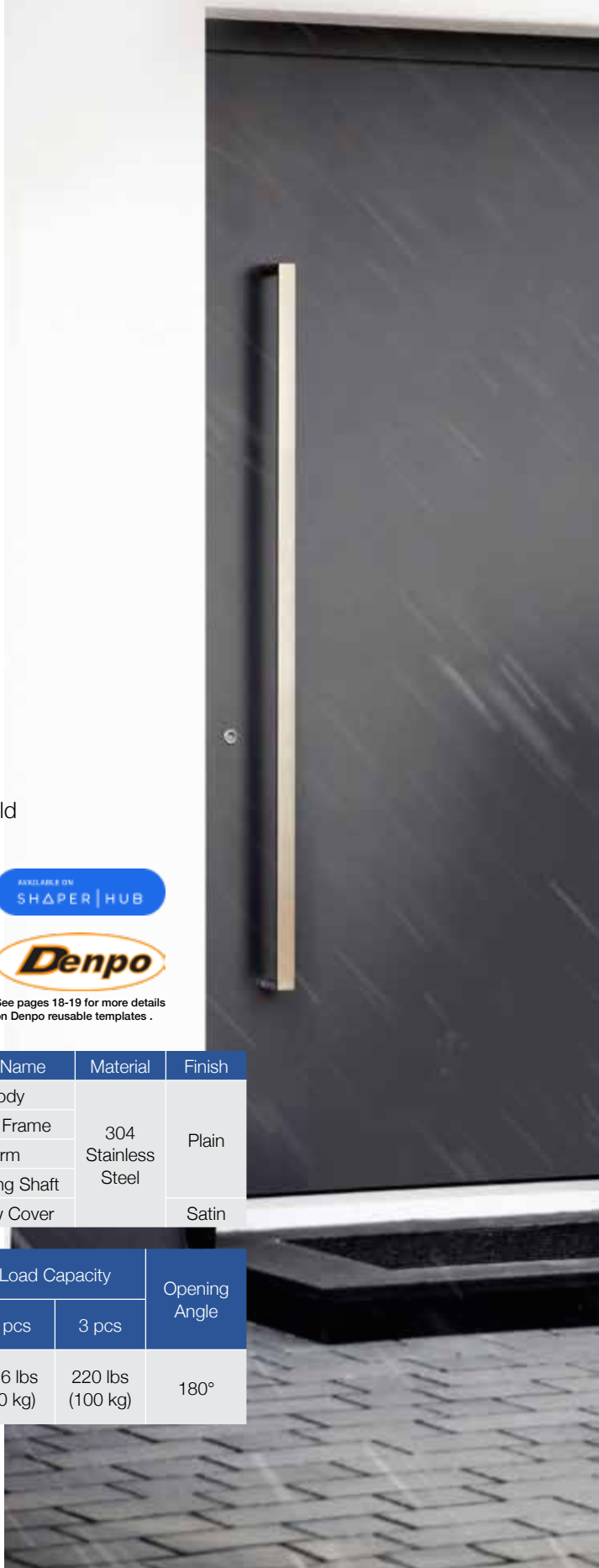


Optional Square Screw Cover



Round Screw Cover





- 304 stainless steel construction, corrosion resistant.
- 3-way adjustable: vertical, horizontal and depth.
- Hinge leaves are designed to separate and feature a temporary hold function making it easier to hang doors.
- Includes round screw covers for a clean finish.
  Square covers sold separately (HGS3D-S160SH-SQPLATE).
- 3 hinges can support doors weighing up to 220 lbs.
- Durability: passed 300,000 cycle test (private).

AVAILABLE ON SHAPER HUB

Denpo

See pages 18-19 for more details on Denpo reusable templates .

Part	Item Number	Material	Finish
Round Cover (Included)	HGS3D-S160RD-SQPLATE	Stainless Steel	Satin
Square Cover (Optional)	HGS3D-S160SH-SQPLATE		

No.	Part Name	Material	Finish
1	Body	304 Stainless Steel	Plain
2	Base Frame		
3	Arm		
4	Rotating Shaft		
5	Screw Cover		Satin

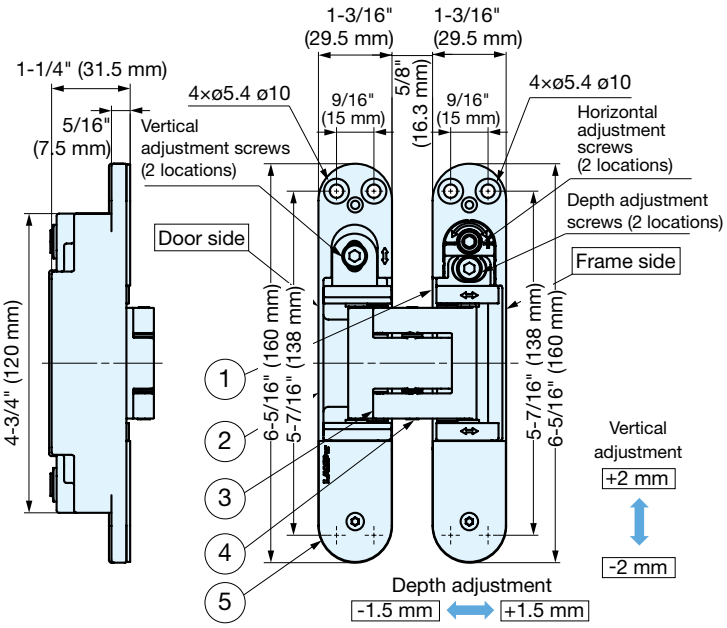
Item No.	Finish	Door Specs			Load Capacity		Opening Angle
		Width	Height	Thickness	2 pcs	3 pcs	
HGS3D-S160SH	Satin	Max. 36" (915 mm)	Max. 96" (2438 mm)	Min. 1-7/16" (36 mm)	176 lbs (80 kg)	220 lbs (100 kg)	180°

ADJUSTABLE STAINLESS STEEL CONCEALED HINGE

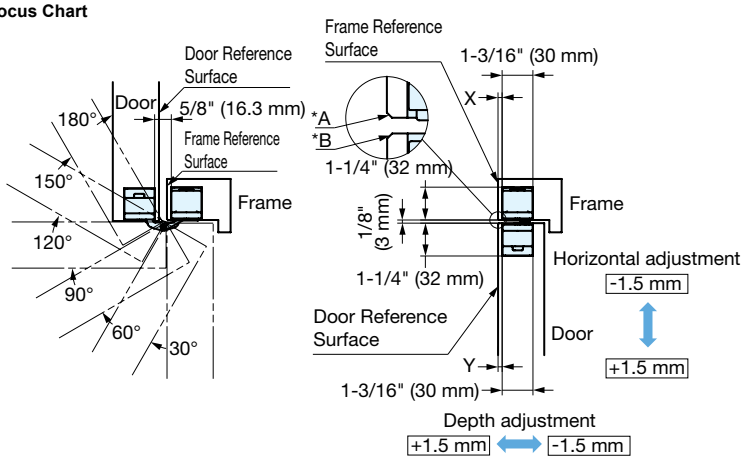
STAINLESS 304 STEEL

HGS3D-S160

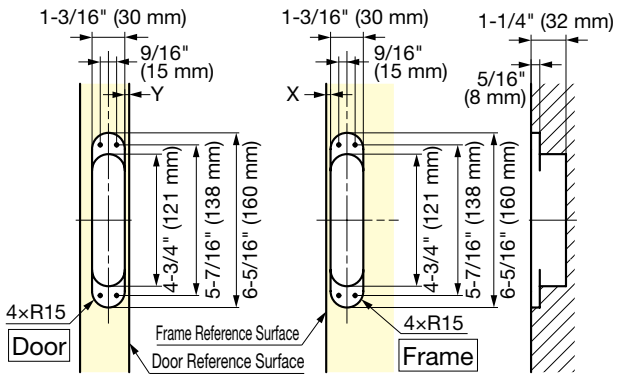




Locus Chart



Cut Out Dimensions



*When using the optional square screw cover, drill the first oval hole in both the door and the frame as a square hole of width 1-3/16" (30 mm) × length 6-5/16" (160 mm) × depth 5/16" (8 mm).

CONCEALED HINGE TEMPLATES DENPO

- Available for full size doors and cabinets.
- Routing template used to mortise HES Concealed hinges into standard and custom size doors.
- Reusable, constructed with durable wood and metal components.
- Allows for shallow and deep cut mortises, adjustable for both door and jamb.
- Easy to install with clear step by step instructions and engraved hinge center lines.
- Available in sets and single hinge templates.



HES3D70-DENPO1-S



HES3D90-DENPO1-S

HES3D90-DENPO1-S



Item No.	Compatible Hinge Model	Door Thickness	Router Bit Size	Routing Format	Material
HES3D70-DENPO1-S	HES3D-70	3/4" ~ 1"	ø1/4"	Single	Wood, Aluminum, Steel
HES3D90-DENPO1-S	HES3D-90	1" ~ 1-5/16"	ø1/4"	Single	

❶ Set the template in place



❷ Do the routing



CONCEALED HINGE TEMPLATES DENPO



HES3D120-DENPO1-S



HES3DE190-DENPO1-S



HES3DE160-DENPO1-S



HES3DW190-DENPO1-S

Item No.	Compatible Hinge Model	Door Thickness	Router Bit Size	Routing Format	Material
HES3D120-DENPO1-S	HES3D-120	1-3/8"	ø1/2"	Single	Wood, Aluminum, Steel
HES3DE160-DENPO1-S	HES3D-E160	1-3/8"	ø1/2"	Single	
HGS3DS160SH-DENPO1-S	HGS3D-S160SH	1-3/4"	ø1/2"	Single	
HES3DE190-DENPO1-S	HES3D-E190	1-3/4"	ø1/2"	Single	
HES3DW190-DENPO1-S	HES3D-W190	1-3/4"	ø1/2"	Single	
HES3D120-DENPO2-F	HES3D-120	1-3/8"	ø1/2"	Multi-Hinge Set (3)	
HES3DE160-DENPO2-F	HES3D-E160	1-3/8"	ø1/2"	Multi-Hinge Set (3)	
HGS3DS160SH-DENPO2-F	HGS3D-S160SH	1-3/4"	ø1/2"	Multi-Hinge Set (3)	
HES3DE190-DENPO2-F	HES3D-E190	1-3/4"	ø1/2"	Multi-Hinge Set (3)	
HES3DW190-DENPO2-F	HES3D-W190	1-3/4"	ø1/2"	Multi-Hinge Set (3)	

❸ Remove template



❹ Install hinge



WATCH DEMO





Sugatsune's HES Concealed Hinges: Tuned to Perfection

A white paper by CE|STRONG, powered by the **Architect's Newspaper**

INTRODUCTION

As small architectural components with larger metaphoric implications go, it is hard to find one more useful and meaningful than the humble hinge. A few ounces of metal can support hundreds of pounds of weight in motion, and as a result, design ideas that generate some of an architect's most dramatic effects: transitions between spaces. A hinge is a simple piece of hardware on which a great deal of creativity can pivot.

The global firm Sugatsune, founded in Tokyo in 1930 and now established on six continents, has built a reputation for hinges and other components that architects and builders rely on for durability, refined aesthetics, and ease of installation. The HES Hinge series in particular takes the concept of the concealed hinge and optimizes its adjustability, expanding its possible applications beyond the luxury sector and bringing elements of elegance and surprise to a wider range of building types.

REFINING AND EXPANDING

Concealed hinges have numerous advantages over traditional butt hinges, including greater durability, as their moving parts are protected from the elements, as well as cleaner visual lines. They can even contribute to a building's security, since the exposed pins of a butt hinge can be vulnerable to intruders and removable with simple tools: A concealed hinge gives a wrongdoer no accessible hardware.



The German manufacturer Soss deserves the credit for the invention of the concealed hinge in the early 1900s. The Soss hinge is popularly used product, said Fernando Vargas, Creative Director for Sugatsune America. However, it is more difficult to install because it lacks any adjustments, so mortising it into the door and frame has to be precise. His solution? "Ours."

In 1992 Sugatsune introduced the adjustable concealed hinge, the HES series (for "Hinge + Esprit," named by Sugatsune's Tokyo office), which features adjustment in three dimensions. You can move the door vertically and horizontally as well as forward and back to ensure perfect flushness and an even reveal.

The customer base for HES hinges comprises both design/construction professionals and do-it-yourselfers, said Michael S., luxury sales consultant at Kurrent (one of many Sugatsune distributors in New York). He estimates that "it's divided, with an even 40 percent contractors, 40 percent architects, and then 20 percent DIYers." Sugatsune provides jigs for easy installation with a DIY-level router, but for contractors using more sophisticated equipment, the San Francisco–based firm Shaper Tools (suppliers of the world's first computer vision, hand-held CNC router, the Origin) provides specific pre-loaded digital templates for Sugatsune HES hinges.

READ FULL ARTICLE

CONTINUE READING ONLINE

SUGATSUNE



Overhead Concealed Door Stop SAS-V

Protects your door as it prevents doors from overextending at your preferred angle.

Pages 80 - 81 for details.



Lid Supports and Stays

Select from dozens of styles and strengths to fit your designs.

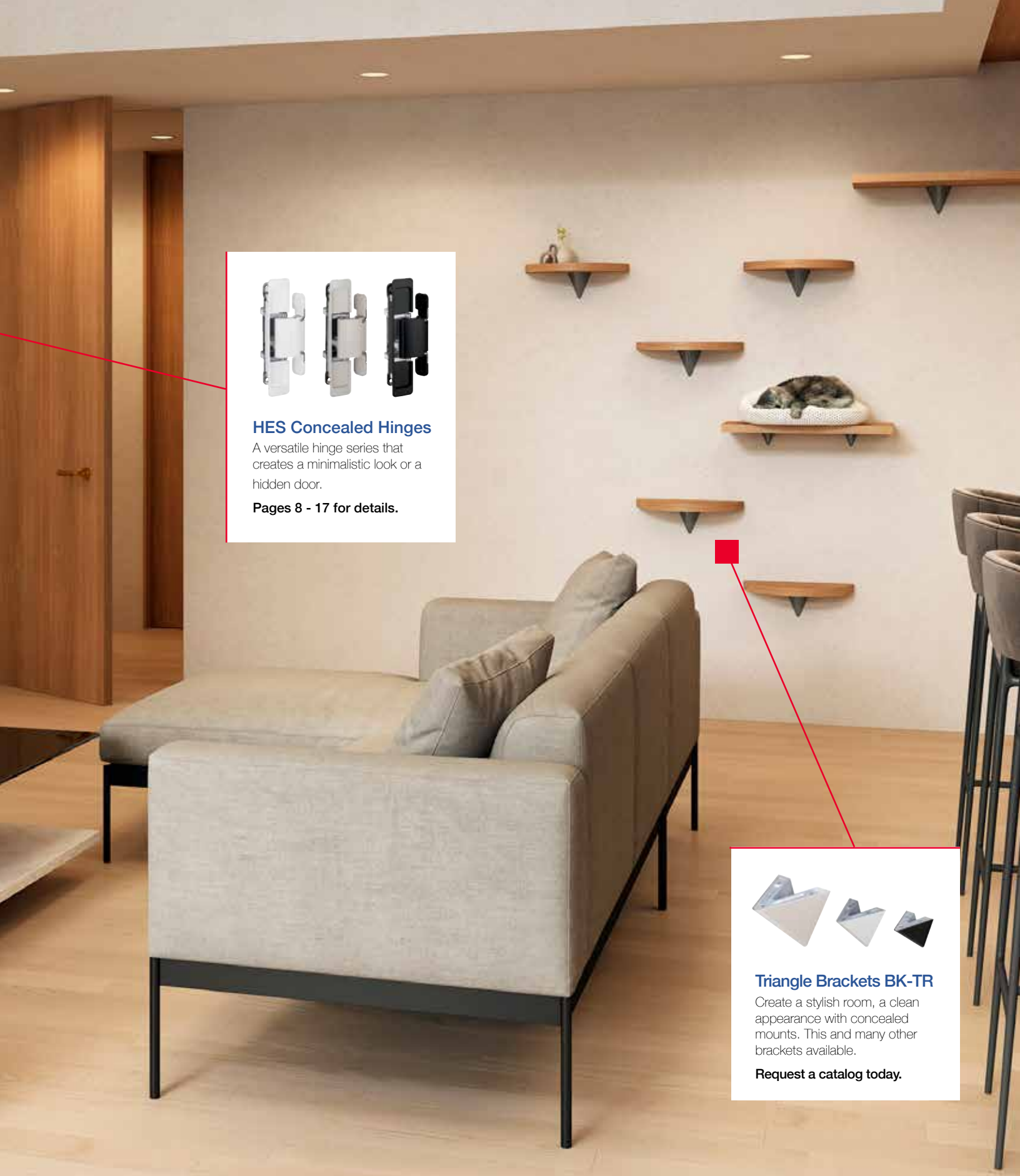
Request a catalog today.



Lift Assist Lid Stays

Add a touch of safety and convenience to your designs with many options to choose from.

Request a catalog today.



HES Concealed Hinges

A versatile hinge series that creates a minimalistic look or a hidden door.

Pages 8 - 17 for details.

Triangle Brackets BK-TR

Create a stylish room, a clean appearance with concealed mounts. This and many other brackets available.

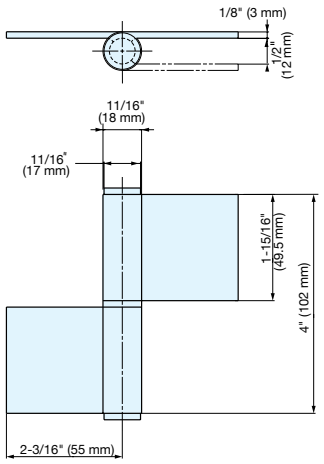
Request a catalog today.

Request your **Cabinet Hardware** catalog today.

STAINLESS STEEL LIFT-OFF HINGE S-6166-2



- Weld-on type stainless steel lift-off hinge.
- Left and Right handed available.
- Door weight:
  Max. 88 lbs (40 kg)/pair.

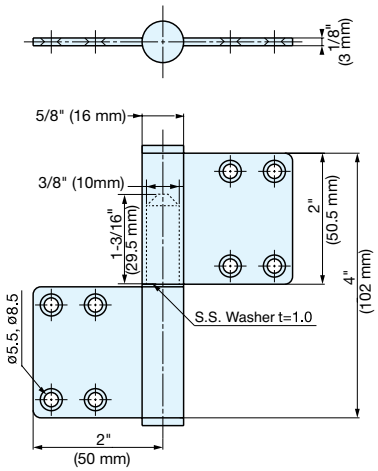


Item No.		Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
Left	Right					
S-6166-2-L	S-6166-2-R	300	12	60	304 Stainless Steel	Satin

STAINLESS STEEL LIFT-OFF HINGE S-6173-2



- Screw hole is countersunk on both sides.
- Non-handed.
- Door weight:
  Max. 88 lbs (40 kg)/pair.

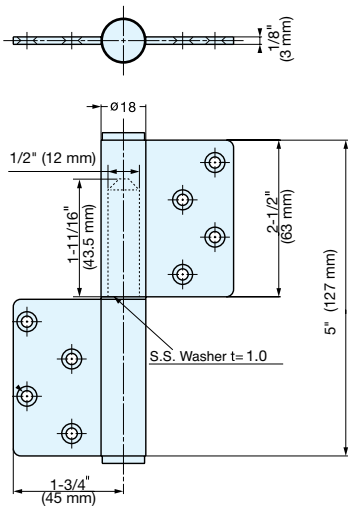


Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
S-6173-2	240	12	60	304 Stainless Steel	Satin

STAINLESS STEEL LIFT-OFF HINGE S-6173-5



- Screw hole is countersunk on both sides.
- Non-handed.
- Door weight:
  Max. 110 lbs (50 kg)/pair.



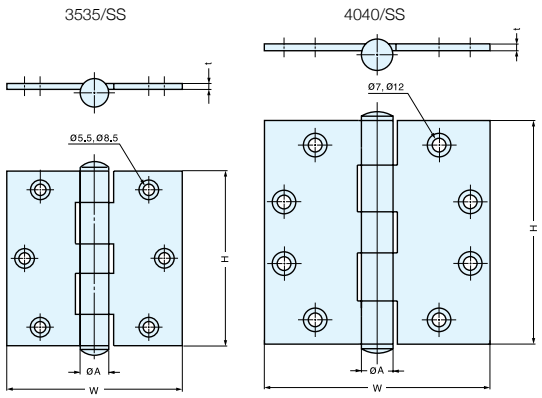
Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
S-6173-5	330	8	40	304 Stainless Steel	Satin



STAINLESS STEEL BUTT HINGE 3535/SS, 4040/SS



- Tamper proof.
- Door weight:
  3535/SS Max. 55 lbs (25 kg)/pair.
  4040/SS Max. 88 lbs (40 kg)/pair.



Material	Finish
304 Stainless Steel	Satin

Item No.	H	W	A	t	Weight (g)	Box (pcs)	Carton (pcs)
3535/SS	3-1/2" (89 mm)	3-1/2" (89 mm)	35/64" (14.0 mm)	1/8" (3.0 mm)	145	2	50
4040/SS	4" (101.6 mm)	4" (101.6 mm)	37/64" (14.8 mm)	9/64" (3.4 mm)	195		50

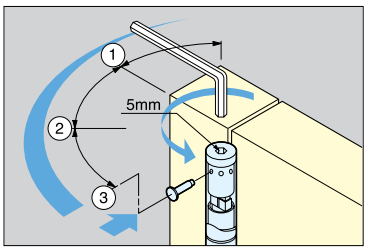
SPRING HINGES

JSA



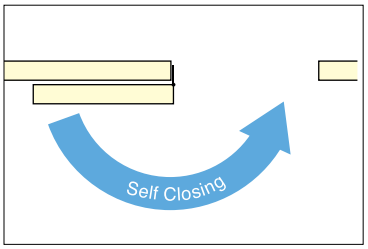
- Spring loaded for self closing.
- Adjustable spring tension.
- Available in 2 sizes/load capacities.
- Available in stainless steel and aluminum.
- Successfully passed 500,000 open/close private cycle tests.

Adjustable Spring Tension





Self Closing





JSA-120A



JSA-180S

Item No.	Material	Finish
JSA-120A	Aluminum	Anodized
JSA-180A		
JSA-120S	304 Stainless Steel	Satin
JSA-180S		

Item No.	Load Capacity		Weight (g)	Box (pcs)	Carton (pcs)
	2 Hinges	3 Hinges			
JSA-120A	44 lbs (20 kg)	66 lbs (30 kg)	175	2	20
JSA-180A	88 lbs (40 kg)	132 lbs (60 kg)	260		
JSA-120S	44 lbs (20 kg)	66 lbs (30 kg)	303		
JSA-180S	88 lbs (40 kg)	132 lbs (60 kg)	526		

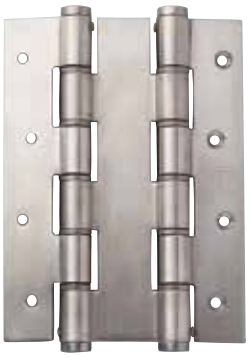
DOUBLE ACTION SPRING HINGE

STAINLESS 304 STEEL | ALUMINUM

JDA



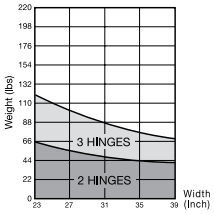
JDA-120-30A



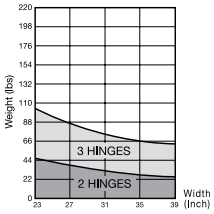
JDA-180-38S



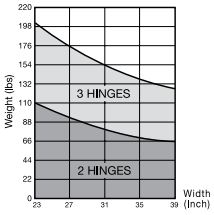
- Spring loaded for self-closing.
- Adjustable spring tension.
- Available in 7 sizes and 2 materials.
- For 2-way swinging doors.
- Successfully passed 500,000 open/close private cycle tests.



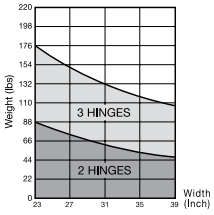
JDA-120-30A



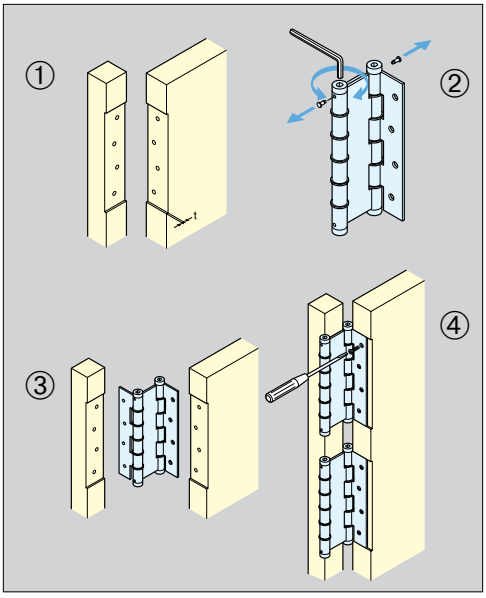
JDA-120-40A
JDA-120-36S



JDA-180-30A



JDA-180-40A
JDA-180-38S



Item No.	Max. Door Thickness	Weight (g)	Material	Finish	Box (pcs)	Carton (pcs)
JDA-120-30A	1-3/16" (30 mm)	275	Aluminum	Anodized	2	20
JDA-120-40A	1-9/16" (40 mm)	320				
JDA-180-30A	1-3/16" (30 mm)	407				
JDA-180-40A	1-9/16" (40 mm)	466				
JDA-180-50A	1-31/32" (50 mm)	510				
JDA-120-36S	1-13/32" (36 mm)	555	304 Stainless Steel	Satin		
JDA-180-38S	1-1/2" (38 mm)	947				

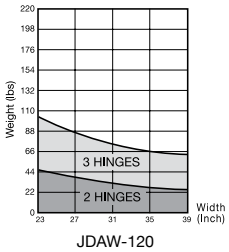
DOUBLE ACTION SPRING HINGE **Wall Mount**

ALUMINUM

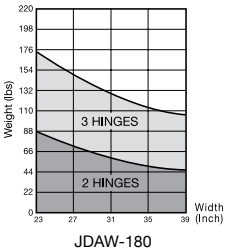
JDAW



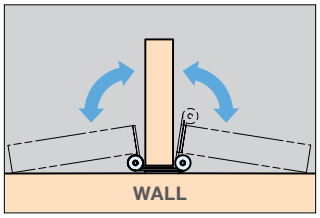
- Spring loaded/self closing.
- Adjustable spring tension.
- Available in 2 sizes/strengths.
- Requires 8 #8 flathead countersunk screws, 3/4" or longer. (not included)

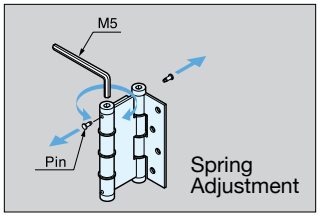


JDAW-120



JDAW-180





Item No.	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
JDAW-120-35A	1-3/8" (35 mm)	350	2	20	Aluminum	Anodized
JDAW-180-35A						

FLUSH SLIDING DOOR SYSTEM MFU1200



MonoFlat UNISON

	MFU1200-40	MFU1200-70
Door Width	31-1/2" ~ 47-1/4" (800~1200 mm)	
Door Height	Max. 106-5/16" (2700 mm)	
Door Thickness	1-3/16" ~ 1-9/16" (30-40 mm)	
Door Weight	44 ~ 88 lbs (20 ~ 40 kg)	88 ~ 154 lbs (40 ~ 70 kg)
Adjustability	Depth: ±3.5 mm (1/8")	
	Horizontal: ±4 mm (3/16")	
	Vertical: ±4 mm (3/16")	

- Designed to CLOSE FLUSH against surrounding walls, providing a sleek appearance.
- UNIQUE MOVEMENT: Recesses in, and then slides sideways in a smooth continuous motion.
- CLEAN APPEARANCE: No floor tracks required on MFU-System.
- Excellent performance, reliable and fully adjustable.
- Features two-way damper to avoid slamming during opening or closing.
- DURABILITY: High durability, passed 100,000 open/close cycle test (private).

SEE IT IN ACTION

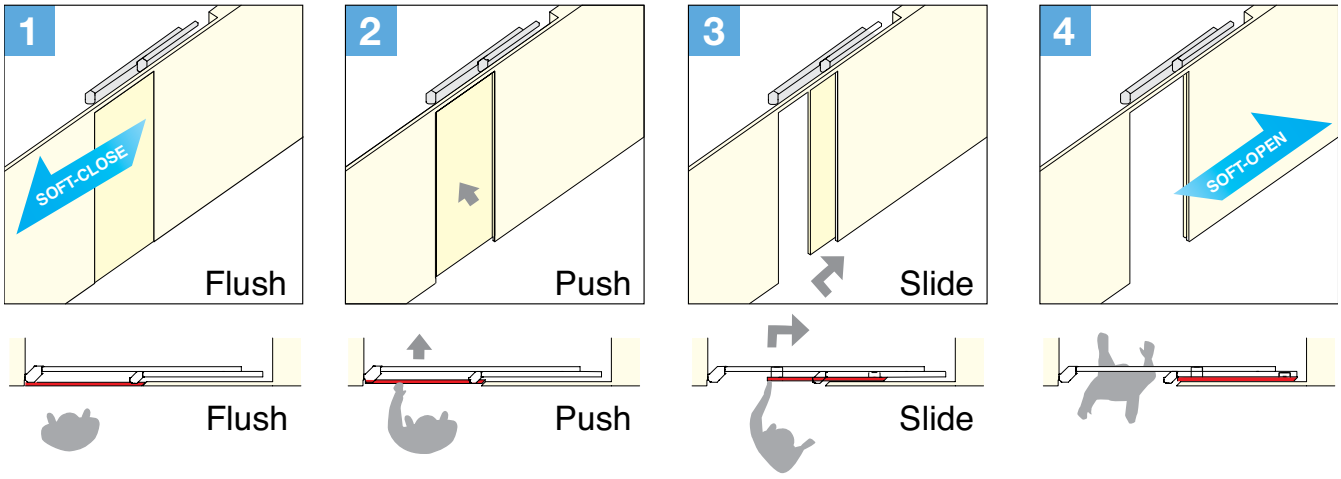
Item No.	Description	Door Weight
MFU1200-40-L (Light duty Left)	Left to Right Opening	44 ~ 88 lbs (20 ~ 40 kg)
MFU1200-40-R (Light duty Right)	Right to Left Opening	
MFU1200-70-L (Heavy duty Left)	Left to Right Opening	88 ~ 154 lbs (40 ~ 70 kg)
MFU1200-70-R (Heavy duty Right)	Right to Left Opening	



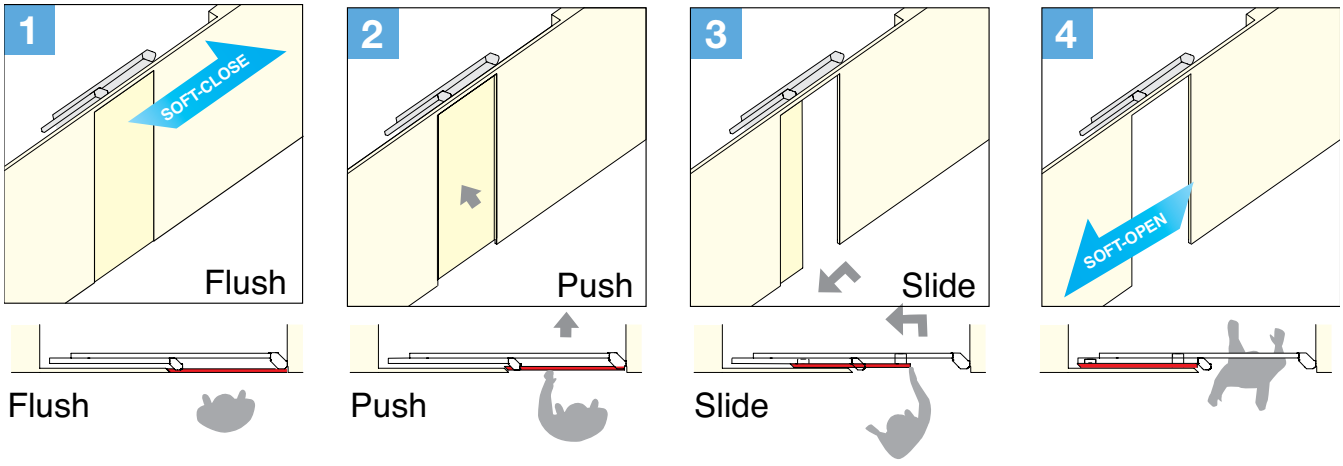




Left to Right Opening Model



Right to Left Opening Model



* The door cannot be opened from the inside without a handle (not included).

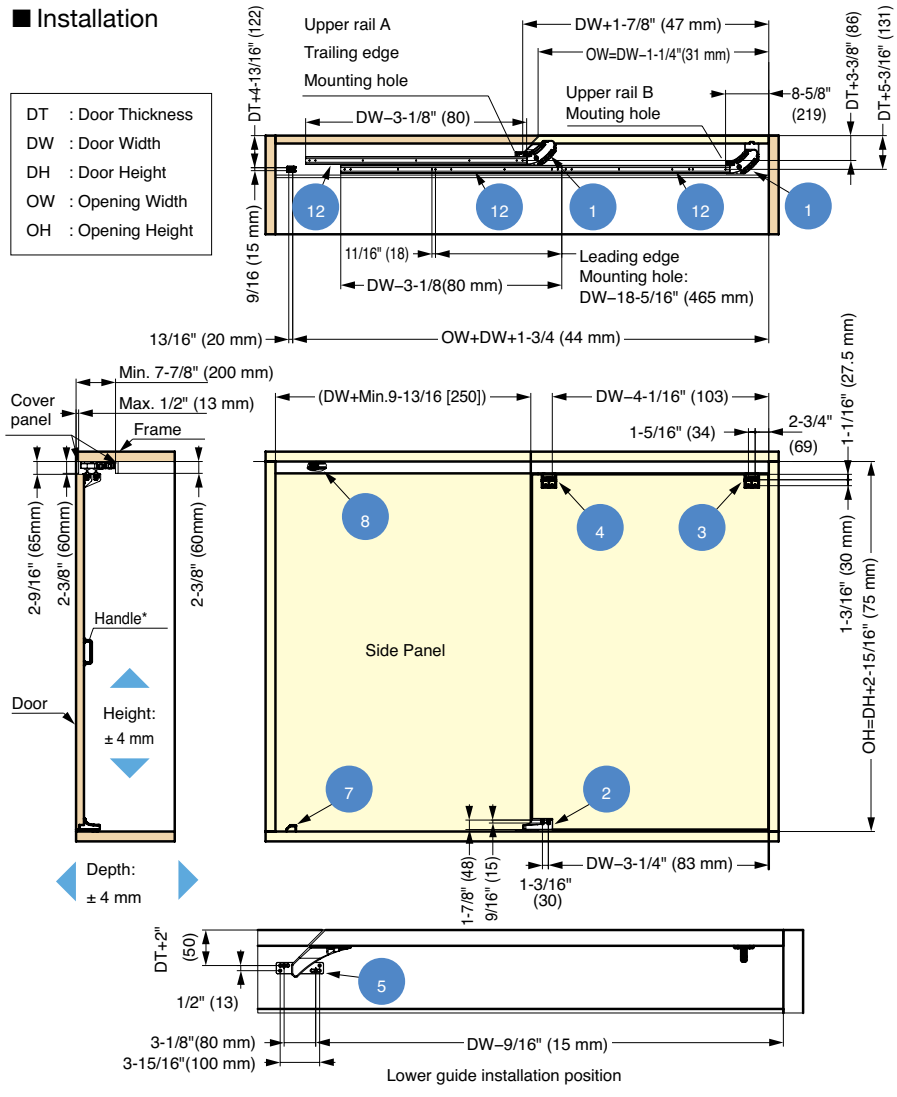
FLUSH SLIDING DOOR SYSTEM MFU1200



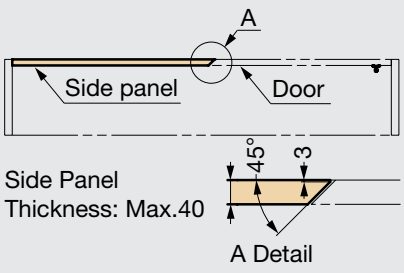


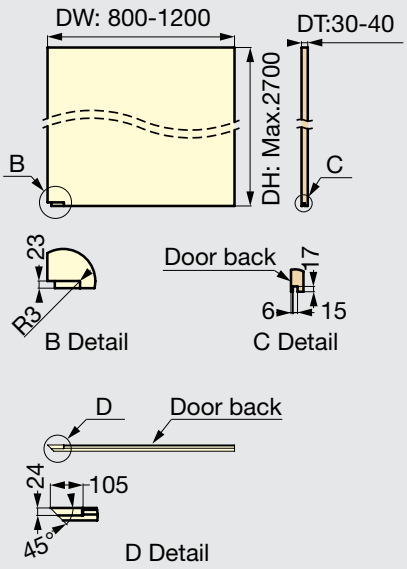
■ Installation

DT	: Door Thickness
DW	: Door Width
DH	: Door Height
OW	: Opening Width
OH	: Opening Height



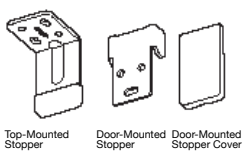
■ Chamfering





■ Optional Part

Center Stop for Bi-parting Sliding Doors
Item No. MFU1200-CS-BL

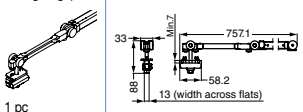
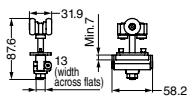


- Door stopper for Bi-parting Sliding Doors.
- Material: steel, EPDM, ABS
- Finish: black

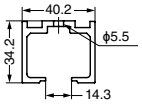
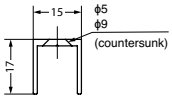
PART DETAILS

Self-Close Rollers — included

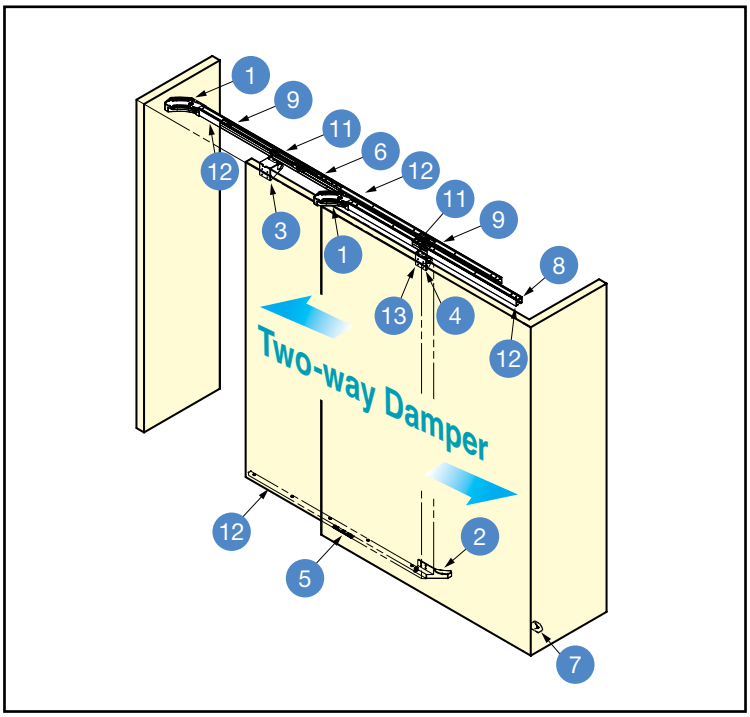
Item No. determined by door weight

No.	Type	Item No.	Part Name	Drawing	Description
11	**Door Weight** 44-88 lbs (20-40 kg)	**MFU1200-40DSC-BL**	Soft closer (leading edge) 1 pc		●Material: steel/POM ●Finish: electro-deposition / black
	Door Weight 88-154 lbs (40-70 kg)	**MFU1200-70DSC-BL**	Door roller (trailing edge) 1 pc		●Material: steel ●Finish: electro-deposition / black

Tracks — included

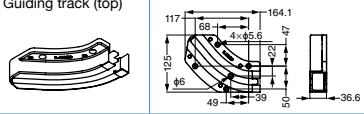
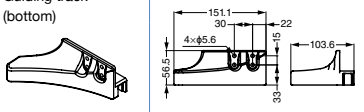
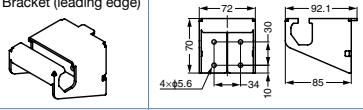
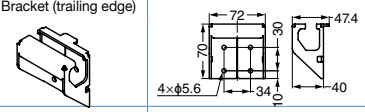
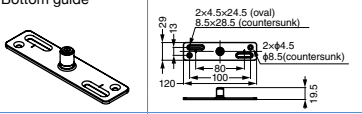
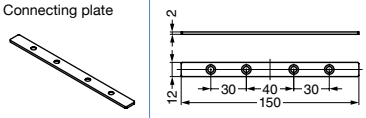
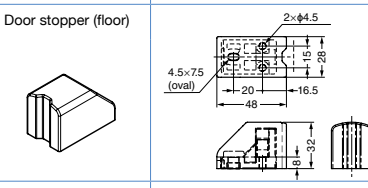
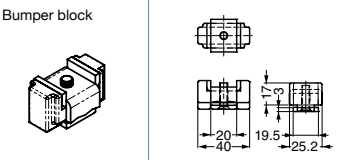
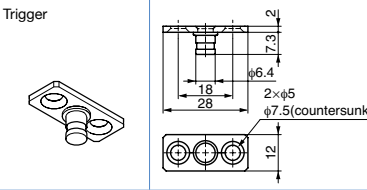
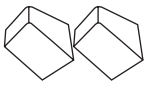
No.	Item No.	Part Name	Drawing	Description
12	**MFU1200-RS-BL**	Upper track A* 1120mm 2 pcs		●Material: aluminium alloy ●Finish: black anodising + coating / clear
		Upper track B 850mm 1 pc		
		Bottom guide channel 1100mm 1 pc		●Material: aluminium alloy ●Finish: silver anodising + coating / clear

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



Item Name	Description
MFU1200-L-BL	**Left to Right Opening**
MFU1200-R-BL	**Right to Left Opening**

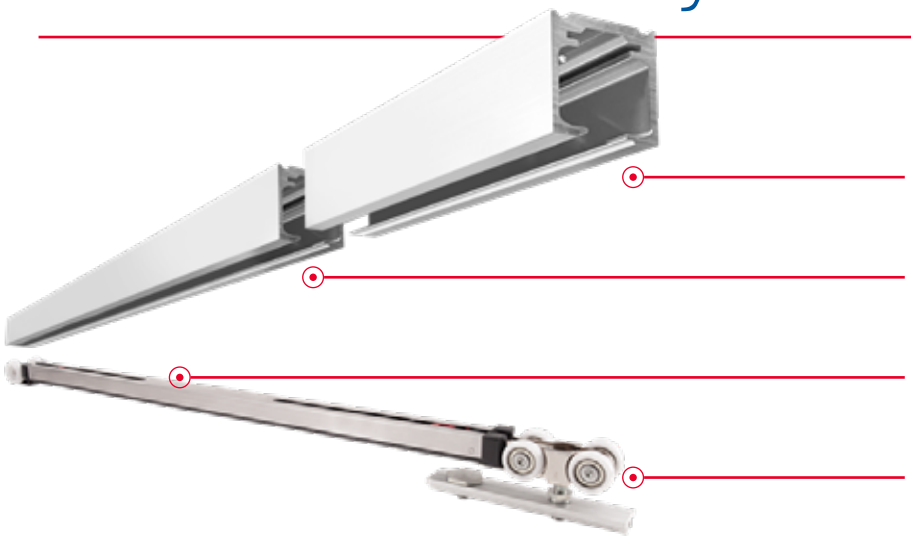
Detail

No.	Qty	Part Name	Drawing (L type) in mm	Description
1	2	Guiding track (top)		●Material: aluminium alloy ●Finish: enamel / black
2	1	Guiding track (bottom)		●Material: aluminium alloy ●Finish: enamel / black
3	1	Bracket (leading edge)		●Material:steel ●Finish: enamel / black
4	1	Bracket (trailing edge)		●Material:steel ●Finish: enamel / black
5	1	Bottom guide		●Material: steel / POM ●Finish/Color: electro-deposition / black
6	1	Connecting plate		●Material:steel ●Finish: electro-deposition / black
7	1	Door stopper (floor)		●Material: zinc alloy / elastomer ●Finish/Color: chromate treatment (trivalent)/grey
8	1	Bumper block		●Material: steel/elastomer ●Finish/Color: chromate/grey
9	2	Trigger		●Material:steel ●Finish: chromate treatment (trivalent)
10	1	Jig	- **Can be ordered separately.**	Item Name: FD80-TRJ ●Material:POM ●Color: green
13	2		**Black overs provided with set.** White covers sold separately MFU1200-LC-WT: Leading Edge MFU1200-TC-WT: Trailing Edge	Item Name: Bracket Covers ●Material:Acrylonitrile Styrene Acrylate (ASA) ●Color: black



WATCH INTRO

The New FD120 Pocket Door System



Track system with access to all parts.

Easy installation.

Two-way soft-close.

265 lb. load capacity.

	Recessed Mount	Surface Mount
Roller	Recessed on Top of Door	Surface on Top of Door
Track Mounting	Ceiling	
Door Weight	Min. 77 lbs (35 kg)	
	Max. 265 lbs (120 kg)	
Min. Door Thickness	1-5/16" (34mm)	1-3/16" (30mm)
Max Door Dimensions	**H 98-7/16" *if* W 30" ~ 59-1/16"** (H 2500 mm if W 762 ~ 1500 mm) **H 98-7/16" ~ 126" *if* W 31-1/2" ~ 78-3/4"** (H 2501 ~ 3200 mm if W 800 ~ 2000 mm	
Door Height	Max. 126" (3200 mm)	

- Door can be effortlessly operated with less than 5 lbs. of force.
- Rollers are recess or surface mounted to top of door.
- Designed for easy installation and maintenance.
- Built in soft-close/open damper.
- Two-rail system allows all components to be easily accessed through the opening.

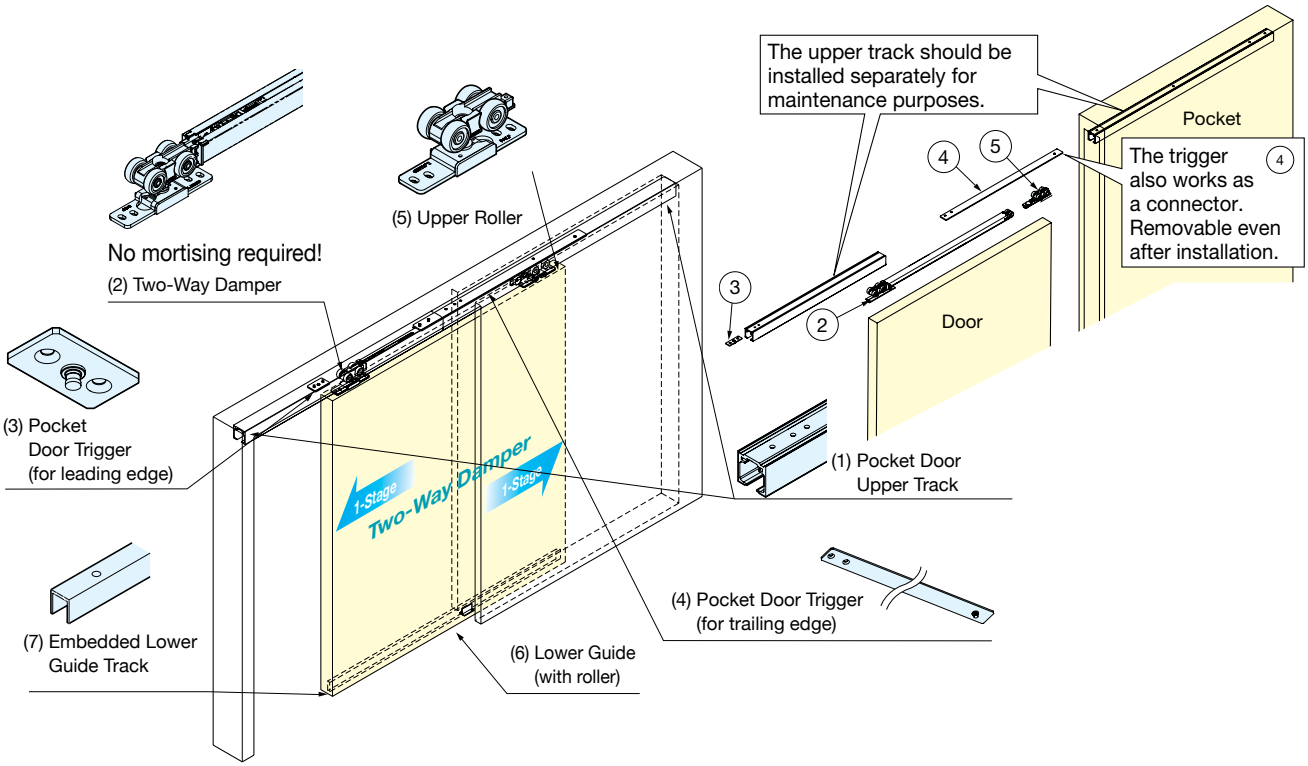
See pages 34 ~ 37

SLIDING POCKET DOOR SYSTEM (Surface Mount) FD120DHCMP-PD



Door Weight	Min. 77 lbs (35 kg), Max. 264 lbs (120 kg)
Door Thickness	1-3/16" (30 mm)
Door Width	29-15/16" ~ 59-1/16" (760-1500 mm) [98-7/16" (2500 mm) or less in height] 31-1/2" ~ 78-3/4" (800-2000 mm) [98 7/16" ~ 126" (2501-3200 mm) in height]
Door Height	Max. 126" (3200 mm)

- Enjoy smooth, quiet door operation from both directions with integrated two-way soft-close, ideal for refined interior spaces.
- The two-track system allows you to service and adjust the door and hardware through the opening without breaking your wall.
- The gap between the upper track and the door can be adjusted within a range of +4 mm.
- **High durability, passed 200,000 cycle test (private)**
- Operate heavy doors effortlessly with **less than 5 lbs of force**, supporting users of all ages and mobility levels.



Standard Parts List

For details of (1) Pocket Door Upper Track, see "Types of Pocket Door Upper Track".

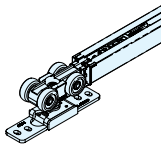
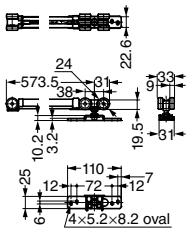
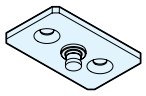
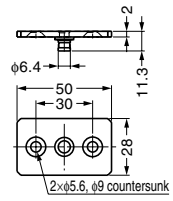
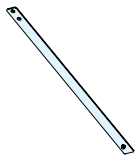
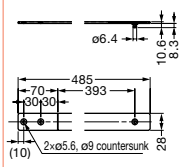
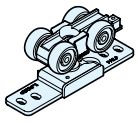
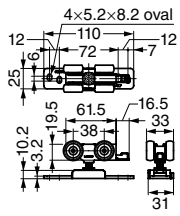
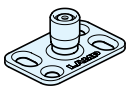
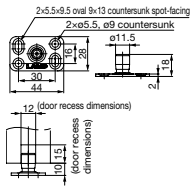
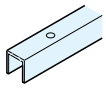
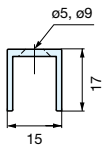
Parts	Selection	Required Parts					
	(1) Pocket Door Upper Track	(2) Two-Way Damper (surface mount)	(3) Pocket Door Trigger (for leading edge)	(4) Pocket Door Trigger (for trailing edge)	(5) Upper Roller	(6) Lower Guide (with roller)	(7) Embedded Lower Guide Track
Item Name		FD90-WRM-DSC	FD80-TRGPF	FD120-TRGPB	FD120-WRM	FD50-BGR18	FD30-HBRT1500SIL
Pocket Door	Length 2160 mm×1 pc (cut for use)	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc

*1 Can also be purchased separately.

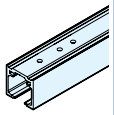
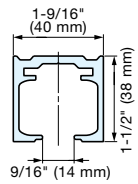
Parts Set (Per Door) — Necessary Parts

Item Code	Item Name	Description
250-059-603	FD120DHCMP-PD	Surface Mount Roller Two-Way Soft Close

Parts Included

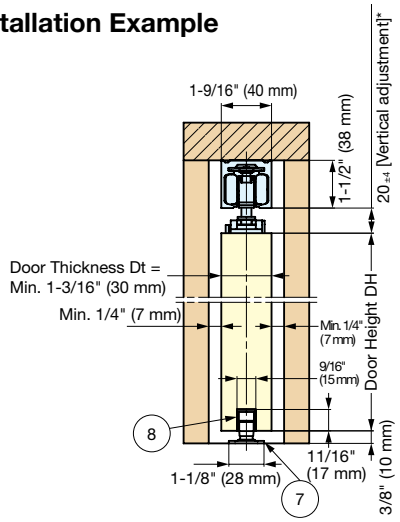
Qty	Part Name	Dimensions (mm)	Description
1 pc	**Surface Mount Roller Two-Way Soft Close** 		**Item Name:** **FD120-WRM-DSC** • Material: Steel / Polyacetal (POM) • Finish: Chromate / Black • Screw: Pan Head Tapping Screw 4×45 Remark: Do not use the included trigger.
1 pc	**Front Trigger** 		**Item Name: FD80-TRGPF** • Material: 304 Stainless Steel • Finish: Plain
1 pc	**Pocket Trigger** 		**Item Name: FD120-TRGPB** • Material: 304 Stainless Steel • Finish: Plain
1 pc	**Surface Mount Roller** 		**Item Name: FD120-WRM** • Material: Zinc Alloy (ZDC) / Polyacetal (POM) • Finish: Nickel / Natural • Screw: Pan Head Tapping Screw 4×45
1 pc	**Lower Guide Roller** 		**Item Name: FD50-BGR18** • Material: Stainless Steel (SUS430) / Polyacetal (POM) • Finish: Countersunk / Natural • Screw: Pan Head Tapping Screw 4×45
1 pc	**Bottom Guide Rail (1500 mm)** 		**Item Name: FD30-HBRT1500SIL** • Material: Aluminium Alloy • Finish: Anodized Silver

Upper Track — Necessary Parts

Length	Item Code	Part Name	Dimensions	Desc.
49-5/8" (1260 mm)	FD80-TRP1260-SL (Silver)	Upper Track 		• Material Aluminium Alloy • Finish Anodized Silver & Black
85-1/16" (2160 mm)	FD80-TRP2160-SL (Silver)			
108-11/16" (2760 mm)	FD80-TRP2760-SL (Silver)			
155-15/16" (3960 mm)	FD80-TRP3960-SL (Silver)			
49-5/8" (1260 mm)	FD80-TRP1260-BL (Black)			
85-1/16" (2160 mm)	FD80-TRP2160-BL (Black)			
108-11/16" (2760 mm)	FD80-TRP2760-BL (Black)			
155-15/16" (3960 mm)	FD80-TRP3960-BL (Black)			

Included screws: Cross-recessed flat head tapping screws 5 x 40

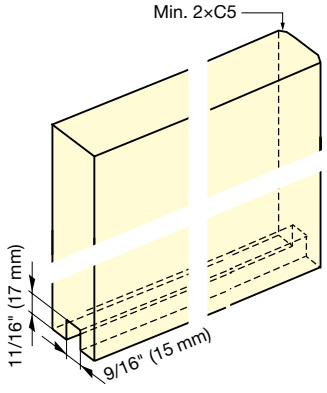
Installation Example



* The door position can be adjusted vertically within a range of -4 mm to +4 mm.

Cut Out Dimensions

Leading edge side | Trailing edge side

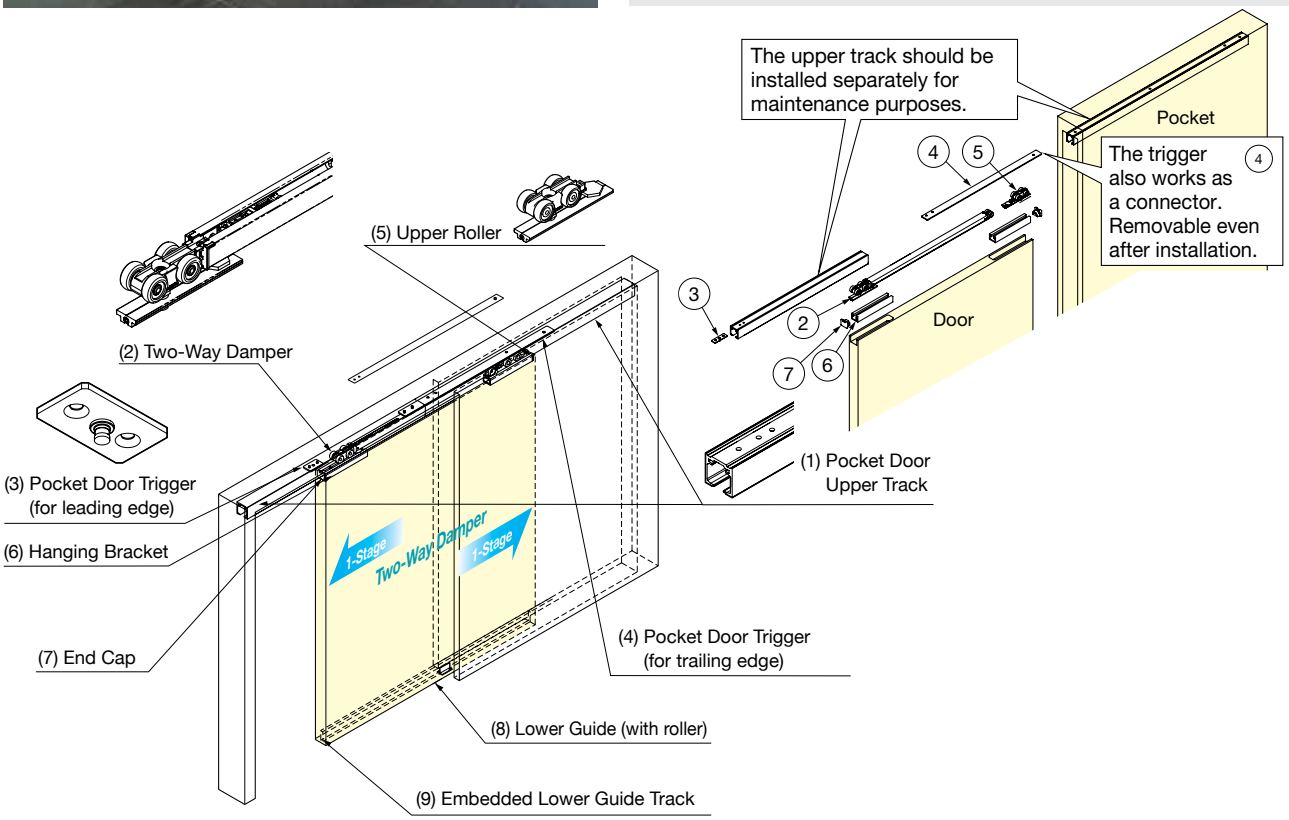


POCKET DOOR SYSTEM (Recessed Mount) FD120DHCHP-PD



Door Weight	Min. 77 lbs (35 kg), Max. 264 lbs (120 kg)
Door Thickness	Min. 1-5/16" (34 mm)
Door Width	29-15/16" ~ 59-1/16" (760-1500 mm) [98-7/16" (2500 mm) or less in height] 31-1/2" ~ 78-3/4" (800-2000 mm) [98 7/16" ~ 126" (2501-3200 mm) in height]
Door Height	Max. 126" (3200 mm)

- Enjoy smooth, quiet door operation from both directions with integrated two-way soft-close, ideal for refined interior spaces.
- The two-track system allows you to service and adjust the door and hardware through the opening without breaking your wall.
- The gap between the upper track and the door can be adjusted within a range of -1 mm to +4 mm.
- **High durability, passed 200,000 cycle test (private)**
- Operate heavy doors effortlessly with **less than 5 lbs of force**, supporting users of all ages and mobility levels.



Standard Parts List For details of (1) Pocket Door Upper Track, see "Types of Pocket Door Upper Track". (P.E083)

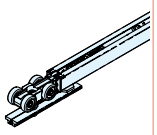
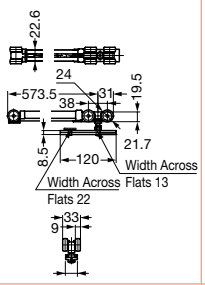
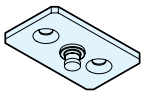
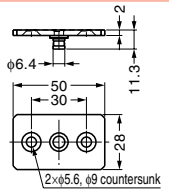
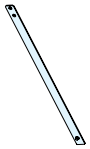
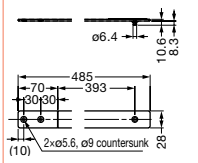
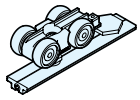
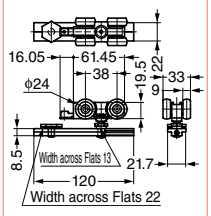
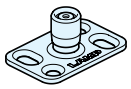
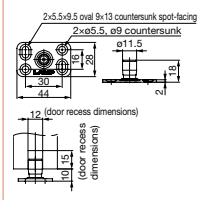
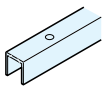
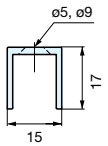
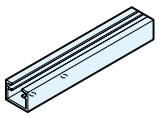
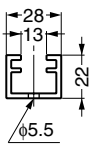
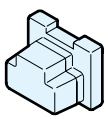
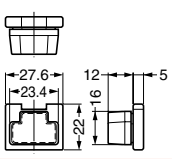
Parts	Selection	Required Parts								
	(1) Pocket Door Upper Track	(2) Two-Way Damper	(3) Pocket Door Trigger (for leading edge)	(4) Pocket Door Trigger (for trailing edge)	(5) Upper Roller	(6) Hanging Bracket	(7) End Cap	(8) Lower Guide (with roller)	(9) Embedded Lower Guide Track	(10) Adjusting Spanner
Item Name		FD120-WRH-DSC	FD120-TRGPB	FD120-TRGPB	FD120-WRH	FD70B-HB160	FD70B-EC-BL	FD50-BGR18	FD30-HBRT1500SIL	FD80-HHSP
Pocket Door	Length 2160 mm ×1 pc (cut for use)	1 pc	1 pc	1 pc	1 pc	2 pcs	2 pcs	1 pc	1 pc	1 pc

*1 Can also be purchased separately.

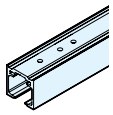
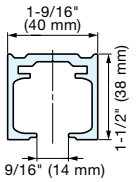
Parts Set (Per Door) — Necessary Parts

Item Code	Item Name	Description
250-059-600	FD120DHCHP-PD	Recessed Roller Two-Way Soft Close

Parts Included

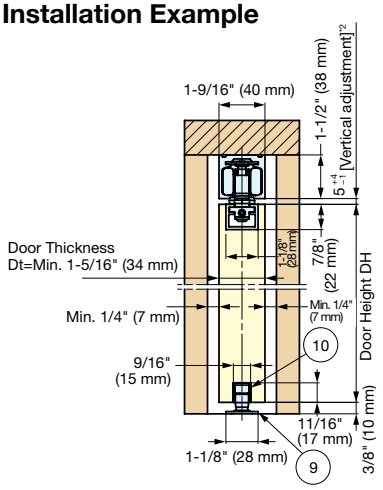
Qty	Part Name	Dimensions (mm)	Description
1 pc	**Recessed Mount Roller Two-Way Soft Close** 		**Item Name: FD90-WRH-DSC** • Material: Steel / Polyacetal (POM) • Finish: Chromate / Black • Screw: Pan Head Tapping Screw 4×45 Remark: Do not use the included trigger.
1 pc	**Front Trigger** 		**Item Name: FD80-TRGPF** • Material: 304 Stainless Steel • Finish: Plain
1 pc	**Pocket Trigger** 		**Item Name: FD120-TRGPB** • Material: 304 Stainless Steel • Finish: Plain
1 pc	**Recessed Mount Roller** 		**Item Name: FD90-WRH** • Material: Zinc Alloy (ZDC) / Polyacetal (POM) • Finish: Nickel / Natural • Screw: Pan Head Tapping Screw 4×45
1 pc	**Lower Guide Roller** 		**Item Name: FD50-BGR18** • Material: Stainless Steel (SUS430) / Polyacetal (POM) • Finish: Countersunk / Natural • Screw: Pan Head Tapping Screw 4×45
1 pc	**Bottom Guide Rail (1500 mm)** 		**Item Name: FD30-HBRT1500SIL** • Material: Aluminium Alloy • Finish: Anodized Silver
1 pc	**Hanging Bracket (160 mm)** 		**Item Name: FD70B-HB160** • Material: Aluminium Alloy • Finish: Anodized Silver
1 pc			**Item Name: FD70B-EC-BL** • Material: Elastomer (TPE) • Finish: Black

Upper Track — Necessary Parts

Length	Item Code	Part Name	Dimensions	Desc.
49-5/8" (1260 mm)	FD80-TRP1260-SL (Silver)	Upper Track 		• Material Aluminium Alloy • Finish Anodized Silver & Black
85-1/16" (2160 mm)	FD80-TRP2160-SL (Silver)			
108-11/16" (2760 mm)	FD80-TRP2760-SL (Silver)			
155-15/16" (3960 mm)	FD80-TRP3960-SL (Silver)			
49-5/8" (1260 mm)	FD80-TRP1260-BL (Black)			
85-1/16" (2160 mm)	FD80-TRP2160-BL (Black)			
108-11/16" (2760 mm)	FD80-TRP2760-BL (Black)			
155-15/16" (3960 mm)	FD80-TRP3960-BL (Black)			

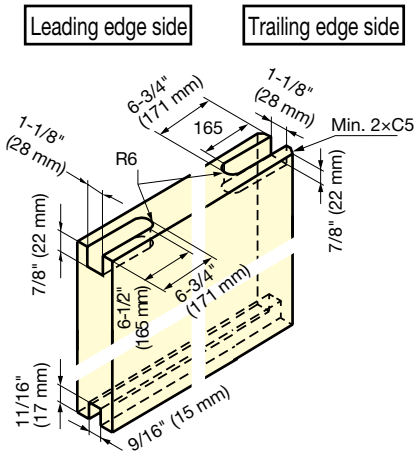
Included screws: Cross-recessed flat head tapping screws 5 x 40

Installation Example



The gap between the upper track and the door can be adjusted within a range of -1 mm to +4 mm.

Cut Out Dimensions



Luxury in Every Space



This soft-close damper will add *A Touch of Posh* to your spaces. Our new **Sliding Door System,** the SDR-P70-RT, features two-way soft close for doors as small as 24” wide and load capacity of up to 154 lbs. Did we mention it is extremely durable and it includes the track?

Visit us at **www.sugatsune.com** or call **800-562-5267** for more information.

Complete Boxed Kits Available

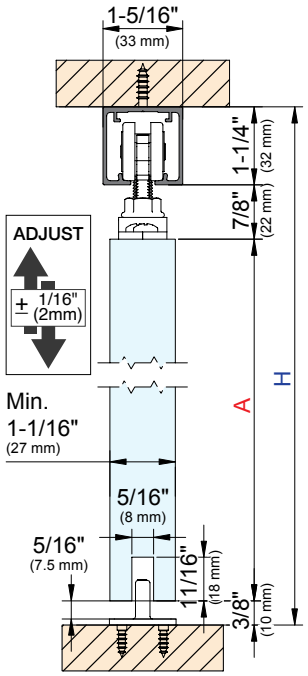
SLIDING DOOR HARDWARE (Door Weight 154 lbs) SDR-P70-RT



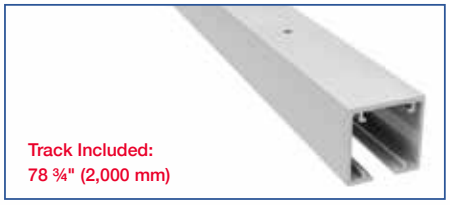
Type	Surface Mount Sliding Door
Roller	Top Surface, Ball Bearings
Track Mounting	Ceiling
Door Weight	Min. 77 lbs (35 kg) Max. 154 lbs (70 kg)
Door Thickness	Min. 1-1/16" (27 mm)
Door Width	Min. 23-5/8" (600 mm) Max. 39-3/8" (1000 mm)

- Load Capacity of 154 lbs (70kg) per door.
- Ceiling Mount, brackets surface mounted to door.
- Double rollers with ball bearings provide quiet precision movement.
- Built in soft-close and soft-open damper.
- Vertical adjustment ± 1/8" (2 mm).
- Durable, passed 100,000 cycles test (private).





$A = H - 2\frac{9}{16}"$





SLIDING DOOR HARDWARE (Door Weight 275 lbs) SDR-A125

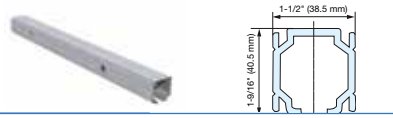
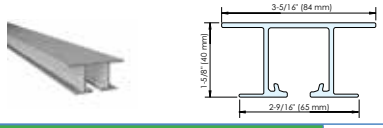


Type	SDR-A125	
	Standard Sliding	
Roller	Top Recessed	Top Surface
Door Weight	Max. 275 lbs (125 kg)	
Door Thickness	Min. 1-3/8" (35 mm)	
Door Width	Min. 19-11/16" (500 mm)	
Door Height	Max. 98-7/16" (2500 mm)	

- Weight Capacity 275 lbs (125 kg).
- Ceiling mount.
- Recessed and Top Surface Mounted door brackets.
- Double rollers with ball bearings.
- Quiet precision movement.
- Low profile minimum gap of 1/8" (3 mm) Recess mount.
- Vertical Adjustment:
  Recessed mount ± 1/16" (1 mm), Surface mount ± 1/8" (2.5 mm).

Ordering Information

1. Track Options

Track Type	Length	Item No.	Description
Standard Aluminum Track	118-1/8" (3000 mm)	SDR-A125-3000	
False Ceiling Aluminum Track	118-1/8" (3000 mm)	SDR-A125-12532	

1A Optional Parts for Track

 SDR-A125-10433 Clip on Fascia	 SDR-A-6056 Clip on Bracket for Timber	 SDR-A125-12557 End Caps for Track	 SDR-A81-6961 Aluminum Separator
 SDR-A-4131 Bottom Guide Channel	 SDR-A-4140 Bottom Guide Roller	 SDR-A300-30064 Short Bracket	

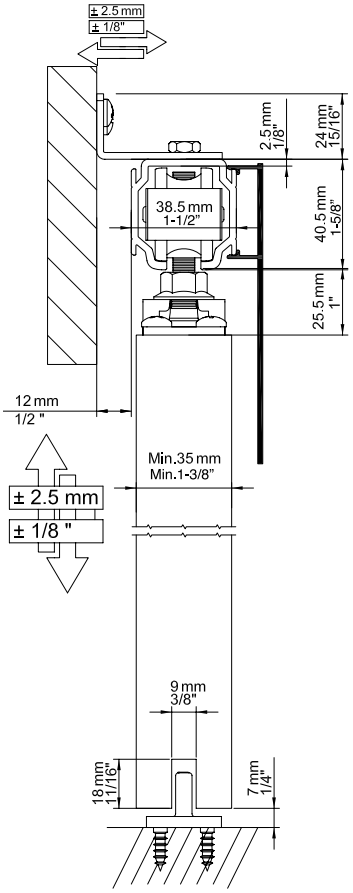
2. Hardware Set

Door Mount	Item No.	Set Details
Top Recessed	SDR-A125TR-PRT	 Top Recessed Roller Set
Top Surface	SDR-A125TS-PRT	 Top Surface Roller Set

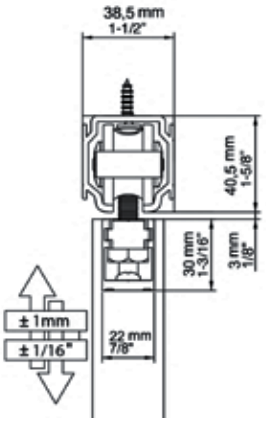
- How to order:

1. Select track and track length
1A. Select any optional parts for track
2. Choose hardware set

TRACK MOUNTING OPTIONS

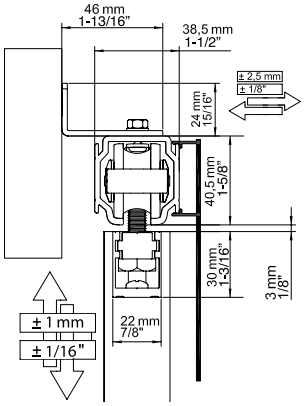


Top Recessed (SDR-A125TR)



Ceiling Mount

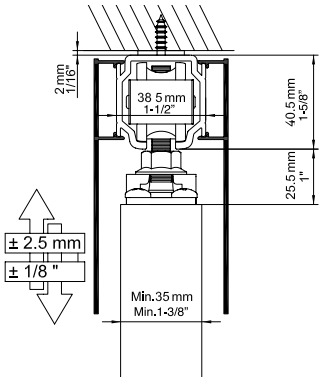
Traditional Ceiling mount option shown with recessed rollers.



Wall Mount w/ Short Bracket

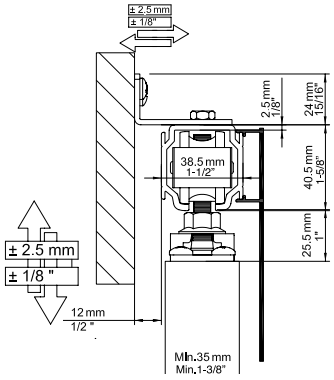
Top track short bracket for Barn Door style mounting that allows fast and simple installation.

Top Surface (SDR-A125TS)



Ceiling Mount

Traditional Ceiling mount option shown. Fascia can be mounted on both sides if needed

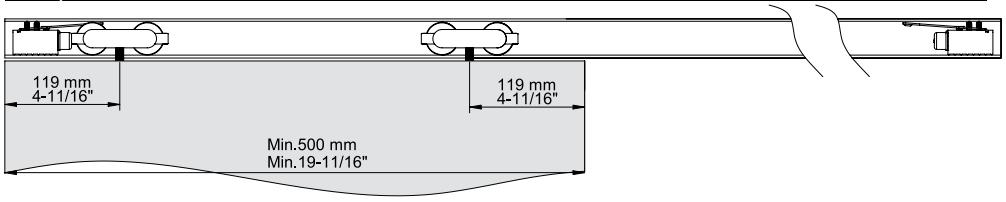


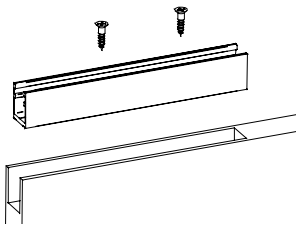
Wall Mount w/ Short Bracket

Top track short bracket for Barn Door style mounting that allows fast and simple installation.

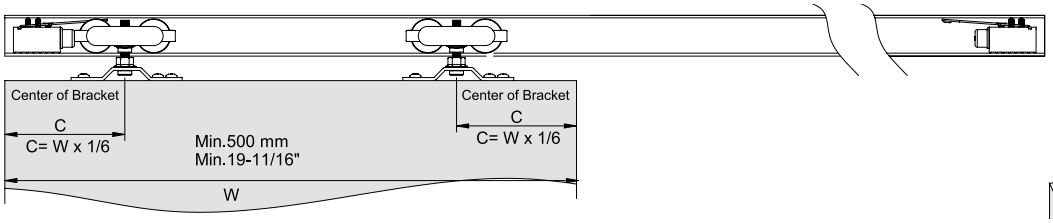
Track Details

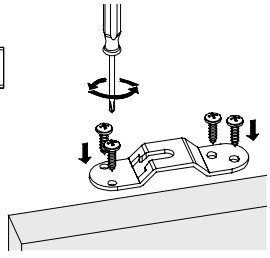
Top Recessed





Top Surface





SLIDING DOOR HARDWARE (Door Weight 660 lbs) SDR-A300

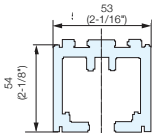


Type	SDR-A300	
	Standard Sliding	
Roller	Top Recessed	Top Surfaced
Door Weight	Max. 660 lbs (300 kg)	
Door Thickness	Min. 1-3/8" (35 mm)	
Door Width	Min. 23-5/8" (600 mm)	

- Load Capacity: 660 lbs (300 kg) Heavy Duty Model.
- Ceiling and Barn Door Mount.
- Recessed and Top Surface Mounted door brackets.
- Double rollers with ball bearings.
- Quiet precision movement.
- Low profile minimum gap of 1/8" (3 mm) Recess Mount.
- Vertical Adjustment:
  - Recessed mount ± 1/4" (6 mm)
  - Surface mount ± 1/16" (2 mm)

Ordering Information

1. Track Options

Track Type	Length	Item No.	Description
Standard Aluminum Track	118-1/8" (3000 mm)	SDR-A300-3000	 

1A Optional Parts for Track

 SDR-A-4131 Bottom Guide Channel	 SDR-A300-30057 End Caps for Tracks	 SDR-A-4140 Bottom Guide Roller	 SDR-A300-30064 Short Bracket

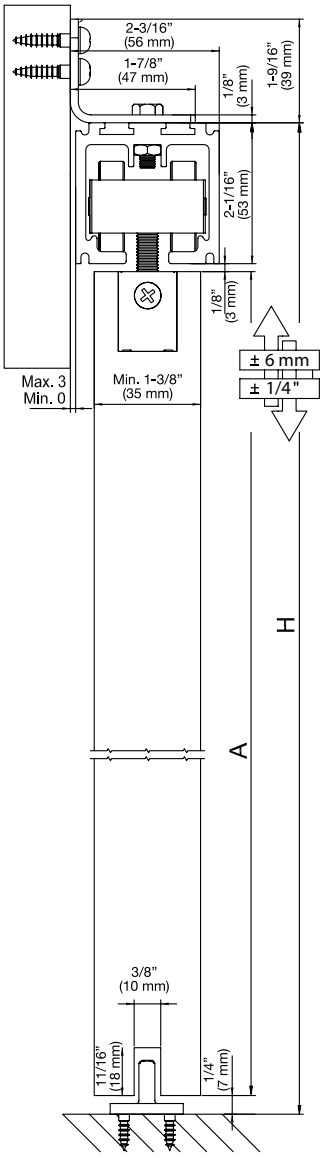
2. Hardware Set

Door Mount	Item No.	Set Details
Top Recessed	SDR-A300TR-PRT	 Top Recessed Roller Set
Top Surface	SDR-A300TS-PRT	 Top Surface Roller Set

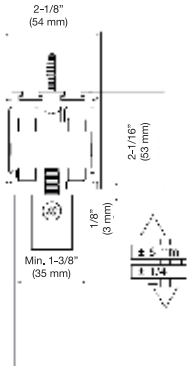
- How to order:

1. Select track and track length
1A. Select any optional parts for track
2. Choose hardware set

TRACK MOUNTING OPTIONS

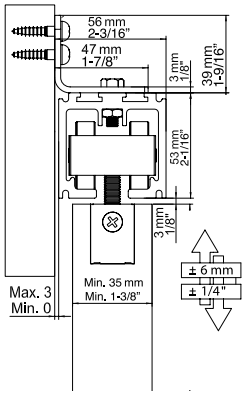


Top Recessed (SDR-A300TR)



Ceiling Mount

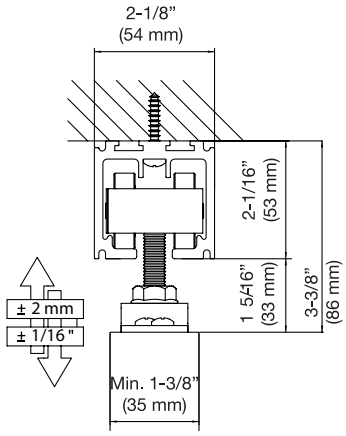
Traditional Ceiling mount option shown with recessed rollers.



Wall Mount w/ Short Bracket

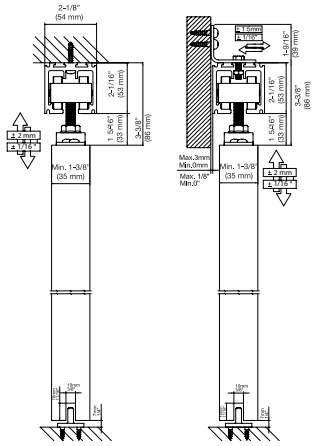
Top track short bracket for Barn Door style mounting that allows fast and simple installation.

Top Surface (SDR-A300TS)



Ceiling Mount

Traditional Ceiling mount option shown. Fascia can be mounted on both sides if needed

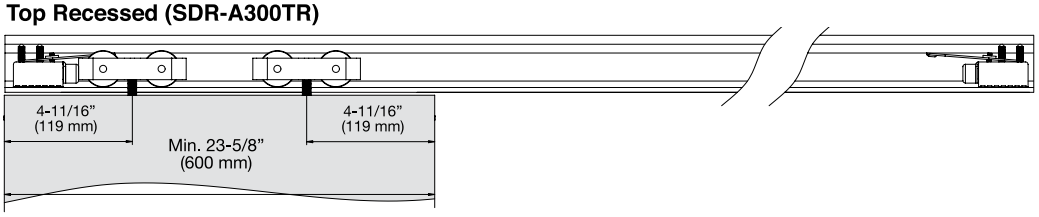


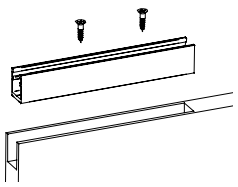
Wall Mount w/ Short Bracket

Top track short bracket for Barn Door style mounting that allows fast and simple installation.

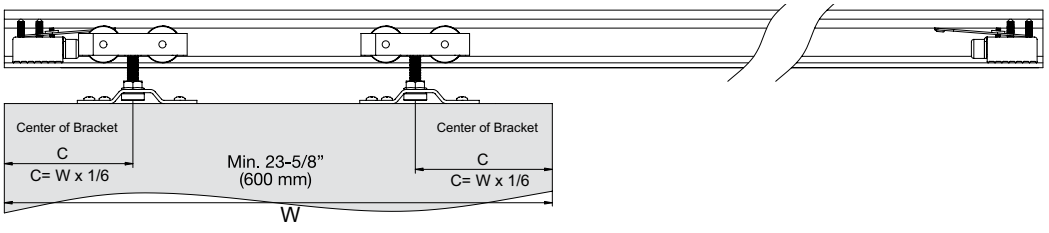
Track Details

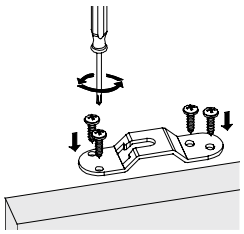
Top Recessed (SDR-A300TR)





Top Surface (SDR-A300TS)





FOLDING DOOR HARDWARE (Door Weight 88 lbs per door) SDR-A84D

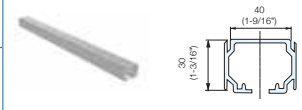
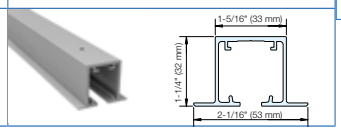


Type	SDR-A84D	
	Folding Door	
Roller	Top Recessed	
Track Mounting	Ceiling	
Door Weight	Max. 88 lbs (40 kg) per panel	
Door Thickness	1-3/8" ~ 2" (35 mm ~ 50 mm)	
Door Panel Width	Min. 21-1/32" (550 mm)	
Door Width	Two Doors: Max. 39-3/8" (1000 mm)	Four Doors: Max. 29-1/2" (750 mm)

- Load capacity: 88 lbs per door/panel.
- Compatible with 2 or 4 doors.
- Ceiling mount options.
- Recessed Mounted door brackets.
- Concealed Hinges Recommended.
- Double rollers with ball bearings with quiet precision movement.
- Low profile minimum gap of 3/16" (5 mm).
- Recess Mount.
- Optional bottom track (not required).

Ordering Information

1. Track Options

Track Type	Length	Item No.	Description
Standard Aluminum Track	78-3/4" (2000 mm)	SDR-A84D-2000	
	118-1/8" (3000 mm)	SDR-A84D-3000	
False Ceiling Aluminum Track	118-1/8" (3000 mm)	SDR-A84D-TC-3000	

1A Optional Parts for Track



SDR-A-4131
Bottom Guide Channel



SDR-A-4110
Bottom Guide Roller

- How to order:

1. Select track and track length
1A. Select any optional parts for track
2. Choose hardware set
2A. Select any optional parts for hardware set

2. Hardware Set

Door Mount	Load Rating Per Door	Item No.	Set Details	
Two Door Assembly	Up to 66 lbs	SDR-A84D-2D2HDC	 (1) Set for (1) Pair of Doors	 (2) HES3D-120DC
	Up to 88 lbs	SDR-A84D-2D3HDC		 (3) HES3D-120DC
Four Door Assembly	Up to 66 lbs	SDR-A84D-4D4HDC	 (1) Set for (1) Pair of Doors +  (1) SDR-A84D-8802 Set for SECOND Pair of Doors	 (6) HES3D-120DC
	Up to 88 lbs	SDR-A84D-4D6HDC		 (9) HES3D-120DC

2A Optional Parts for Hardware Set



SDR-A84D-8800
Set for
Pair of Doors

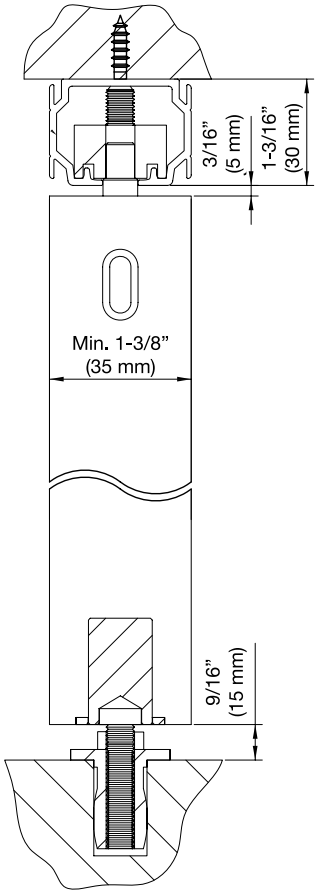


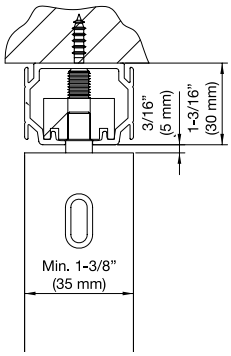
SDR-A84D-8801
Set for
Single Door



SDR-A84D-8802
Set for
SECOND PAIR
of Doors

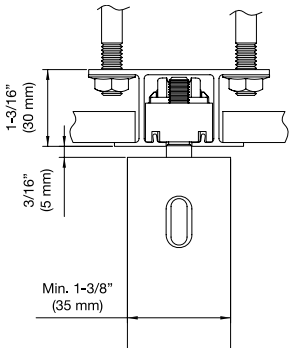
TRACK MOUNTING OPTIONS





Ceiling Mount

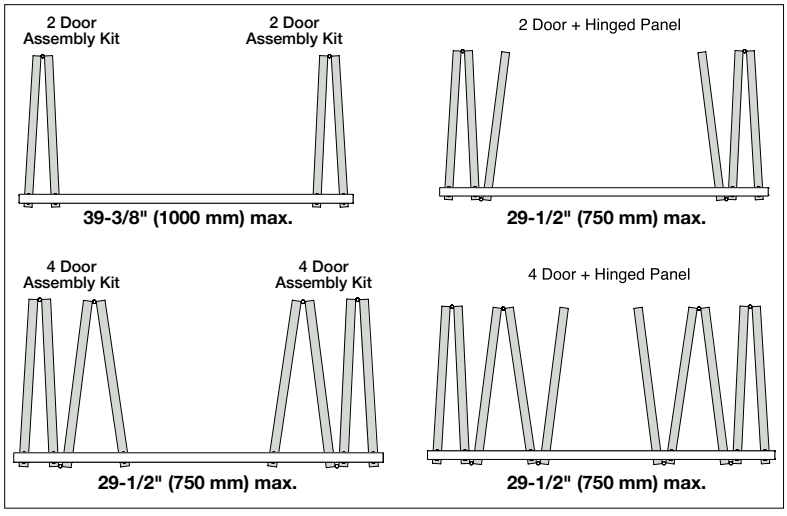
Standard ceiling mount for doorways and closets. Requires 1-3/8" thick doors.

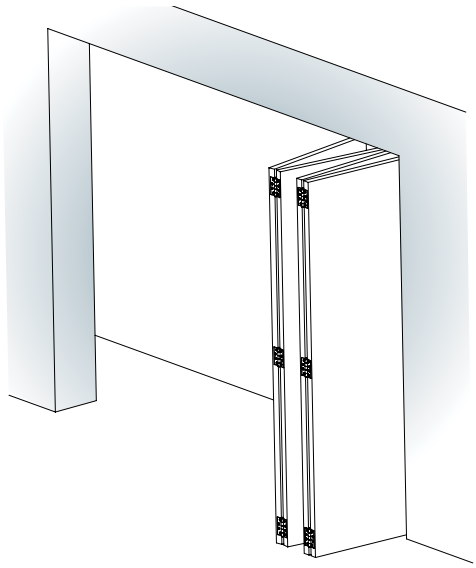


False Ceiling Mount

False ceiling mount for room partition applications. Requires 1-3/8" minimum thick doors. Hardware for sliding doors is completely concealed.

■ Configuration Options





SYNCHRONIZED SLIDING DOOR HARDWARE SDR-A125SYN

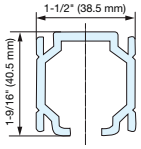


Type	SDR-A125SYN
	Bi-Parting Synchronizing
Track Mounting	Ceiling
Door Weight	Max. 275 lbs (125 kg)
Door Thickness	Min. 1-3/8" (35 mm)
Door Width	23-5/8" ~ 47-1/4" (600 ~ 1200 mm)

- Load capacity: 275 lbs (125 kg).
- Smooth Bi-Parting synchronized function.
- Ceiling Mount.
- Surface Mounted door brackets.
- Double rollers with ball bearings.
- Quiet precision movement.
- Vertical Adjustment ± 1/8" (2.5 mm).

Ordering Information

1. Track Options

Track Type	Length	Item No.	Description
Standard Aluminum Track	118-1/8" (3000 mm)	SDR-A125-3000	 

1A Optional Parts for Track

 SDR-A-125-10433 Anodized Aluminum Fascia (3000 mm)	 SDR-A81-6061 Aluminum Separator

* If installing fascia for ceiling mount, one per each fixing point

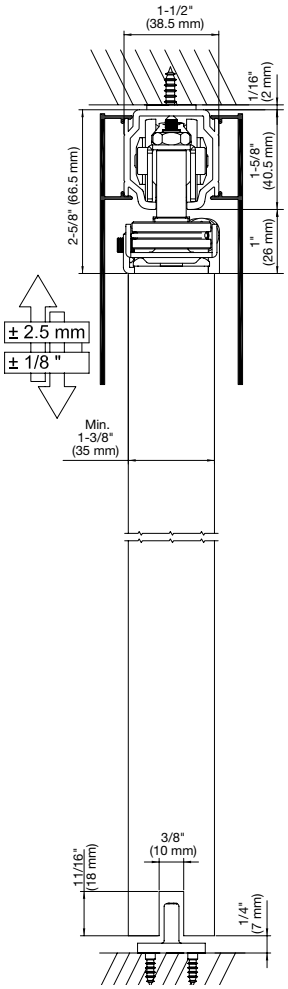
- How to order:

1. Select track and track length
1A. Select any optional parts for track
2. Choose hardware set

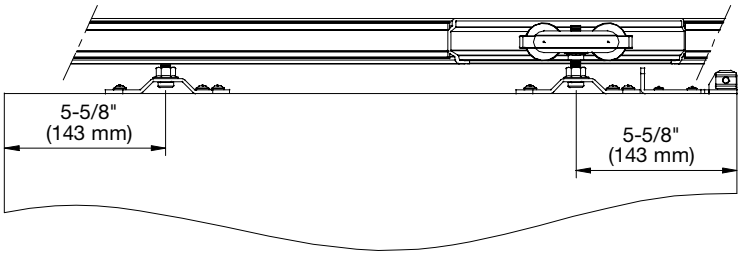
2. Hardware Set

Door Mount	Item No.	Set Details
Surface Bracket with Synchronized Bracket Set	SDR-A125SYN-KIT	 (2) SDR-A125TS-PRT +  (1) SDR-A125SYN-PRT

TRACK MOUNTING OPTIONS

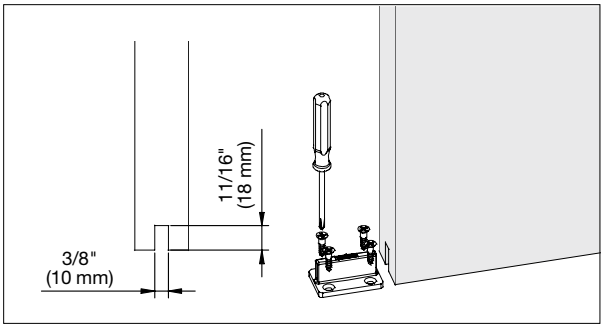


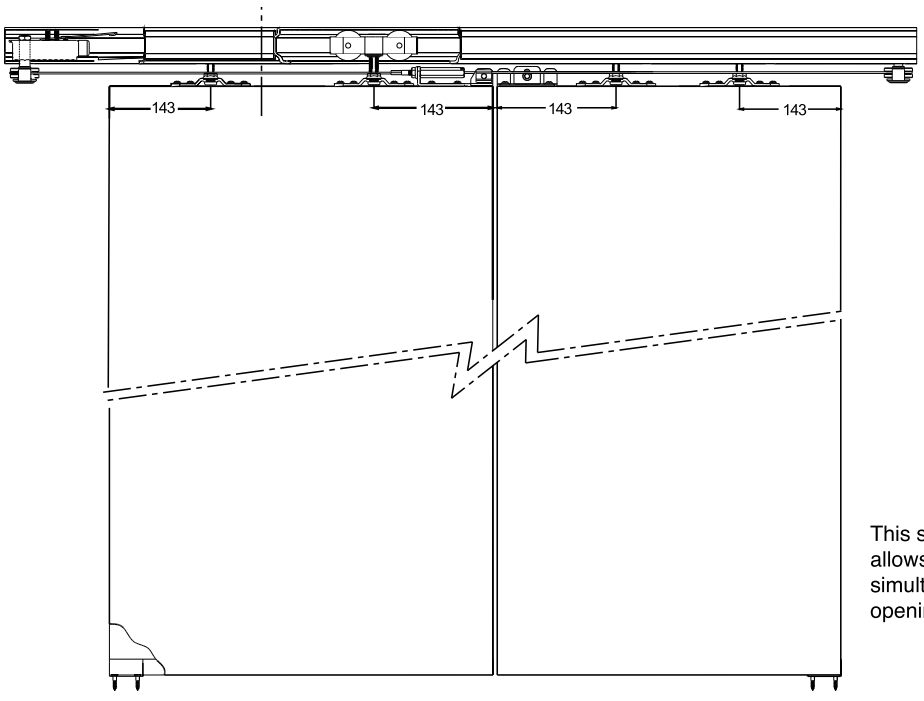
Ceiling Mount



The Bi-parting Synchronized door system allows for wider door openings in a variety of spaces. The top hung doors leave the floor free of tracks and make this system desirable for entrances to conference rooms, kitchen or bathrooms.

Floor Guide Installation





This synchronous system allows 2 sliding doors to open simultaneously. Can be applied to opening of 7' and 10-1/2".

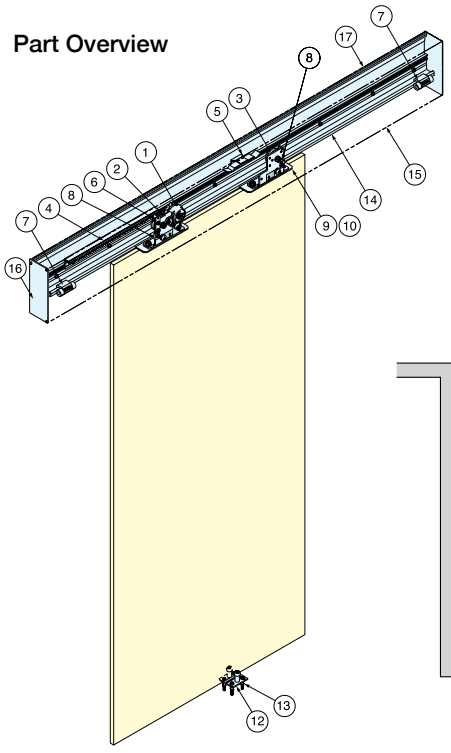
SELF CLOSING SLIDING DOOR SYSTEM LM-80

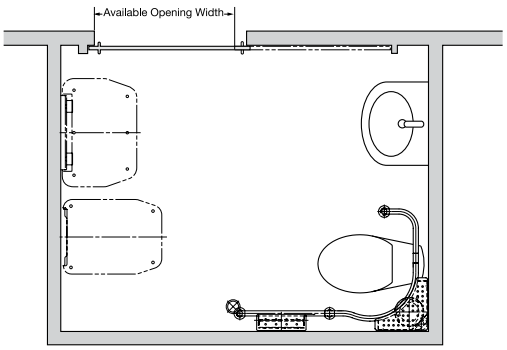


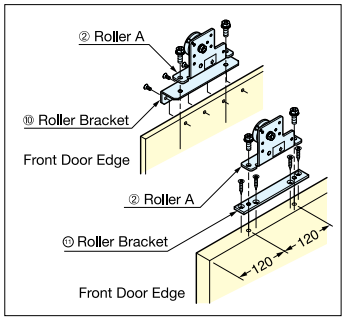
Item No.	LM-80
Door Width	27-9/16" ~ 47-1/4" (700 ~ 1200 mm)
Door Thickness	1/2" (13 mm) or 1-1/8" ~ 1-9/16" (28 ~ 40 mm)
Door Weight	66 ~ 176 lbs (30 ~ 80 kg)/door
Door Travel	Max. 43-5/16" (1100 mm) in case of door width 47-1/4" (1200 mm)

- Self-closing sliding door system.
- Equipped with damper for smooth and soft-closing, eliminating door slamming.
- Dampening speed adjustable for best soft-closing.
- Wall surface mount type for easy installation.
- No bottom rail needed for clean appearance.
- Door opens lightly for easy operation.
- Door catch included to hold door in fully open position.
- Designed for 1/2" (13 mm) solid phenolic panel or 1-1/8" ~ 1-9/16" (28 ~ 40 mm) thick wood doors.
- Non-handed.
- Glass door system available.

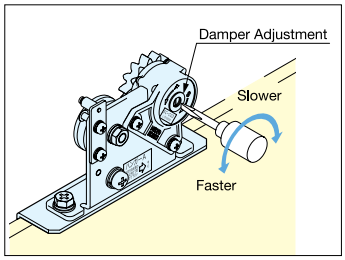
Part Overview





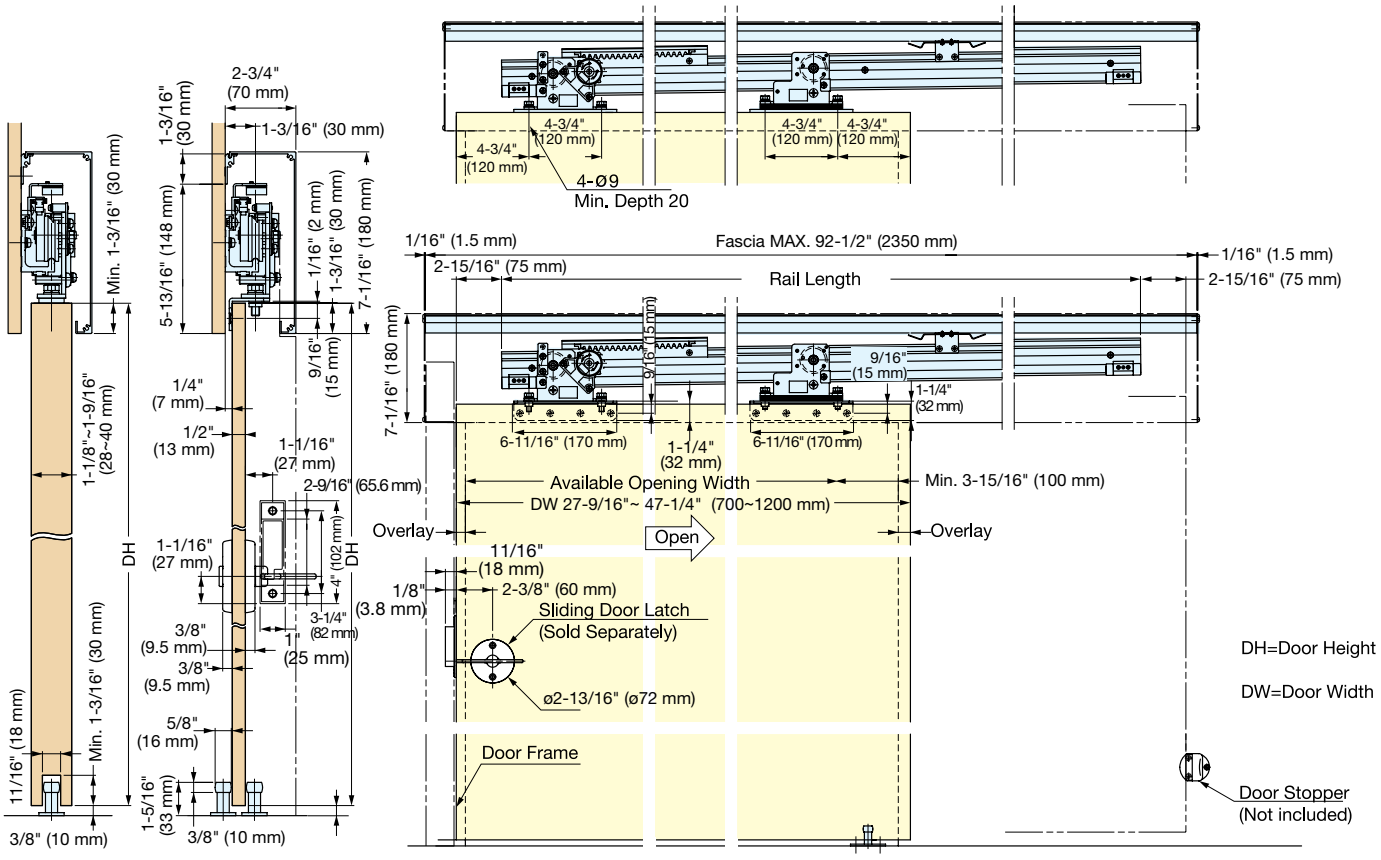


Roller Brackets for solid phenolic panel and wood door included.



Closing speed adjustable by turning adjustment screw on damper.

TRACK MOUNTING OPTIONS



Part Details

No.	①	②	③	④	⑤	⑥	⑦
Name	Damper	Roller A	Roller B	Gear Rack	Spring	Stopper Roller	Door Stopper
							
Qty. / Set	1 pc	1 pc	1 pc	1 pc	1 pc	1 pc	2 pcs

No.	⑧	⑨	⑩	⑪	⑫	⑬	⑭
Name	Stopper Plate	Height Adjustment Spacer	Roller Bracket (For Solid Phenolic)	Roller Bracket (For Wood)	Bottom Roller Guide	Anchor	Roller Rail (2200 mm)
							
Qty. / Set	2 pcs	t1:15 pcs, t0.5:1 pc	2 pcs	2 pcs	2 pcs	4 pcs	1 pc

No.	⑮	⑯	⑰
Name	Fascia (2350 mm)	Side Cover	Mounting Plate (For Fascia) (2350 mm)
			
Qty. / Set	1 pc	1 pc ea. (Left & Right)	1 pc

No.	Option
Name	Latch w/indicator
Item No.	ET-125T
	
Qty. / Set	1 pc

CASE STUDY

Future Farm House

The Story. The Products. The Future.



Push-to-open
Door Latch
ML-ZN80
See pg. 72

After a beautiful 1-hour drive South from Albany New York, we approached our destination in German Town. Pulling up to park, next to a Tesla that was tethered to the home, we were greeted by Roscoe, our four-legged welcoming committee. And on the porch leading into this gorgeous house was Everett Kramer, his wife Jeni and son Hawk. We were in awe seeing the completed build of a modernized farmhouse set in front of a 45-acre backdrop of fall shades of red, brown and orange. What is most impressive is that we were looking at a home built to be almost 90% more efficient than most houses being built across the U.S.

This project began with Everett Kramer's desire to build the farmhouse of tomorrow on the land where he and his wife Jeni were married. Inspired by Wolfgang Pheist's passive home concept and motivated by cold Winters and hot Summers, Everett was able to learn, design and accomplish his dream of building a home that his family could enjoy for years to come.

The passive home concept dates back to the 1990's when it was introduced in Europe with a goal of building homes that would contribute to providing a more sustainable environment. The basic objective is to eliminate thermal bridging so that a steadier temperature can be maintained inside the home. Put simply, it is designing your home to be like a stainless steel Yeti® tumbler where there is minimal air flow to maintain a consistent temperature within. Hence requiring little energy to heat or cool your home. For the more tech-gifted, there are 4 key requirements that make up a passive house. The first is space heating which can't use more than 15 kwh/M2. The second pertains to the overall energy consumption for





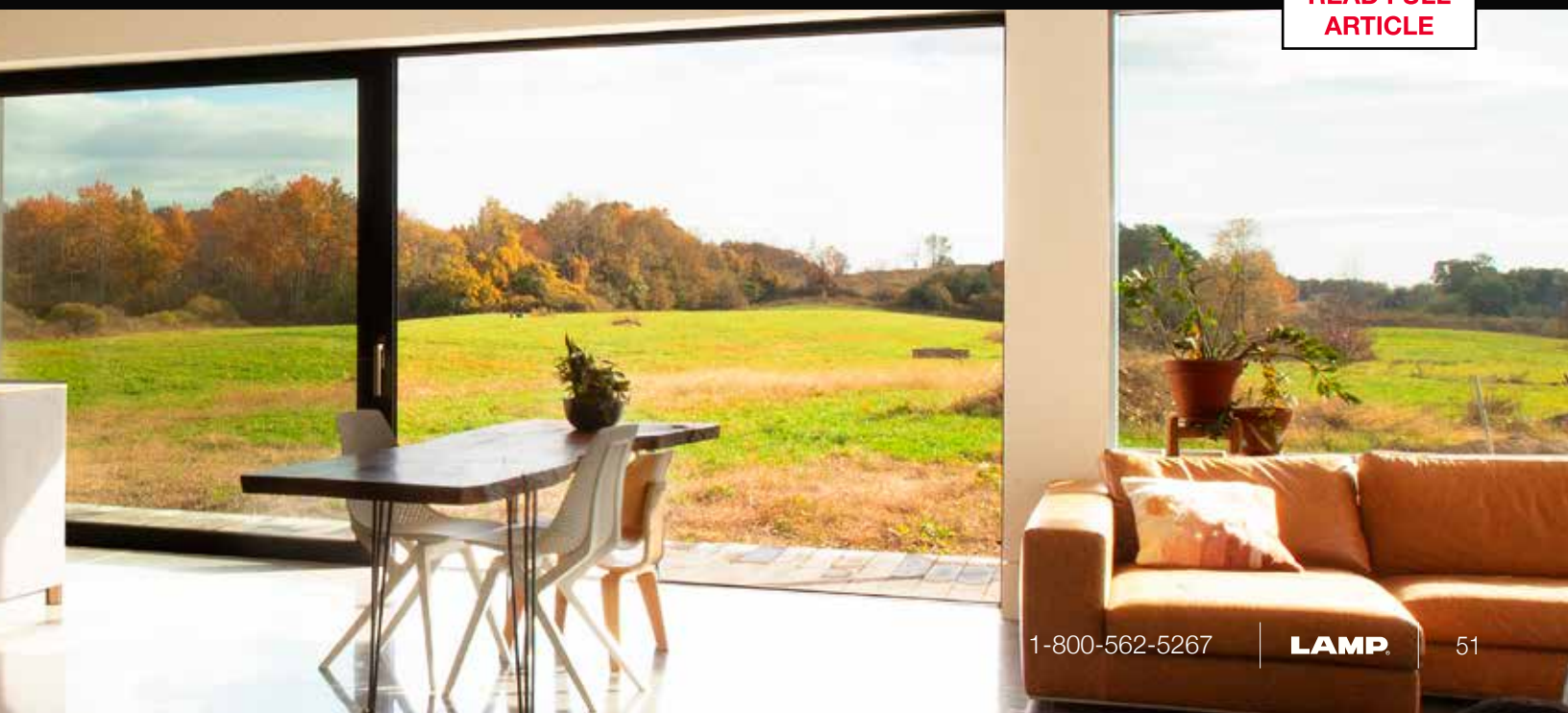
LIN-X800
Lateral
Door System
See pg. 52

electricity, heating water, gas etc. which needs to be less than 60 kwh/M2 per year. As mentioned above, minimal airflow is critical to minimize the dissipation of energy which means the house needs to be as airtight as possible. The requirement is that there can be no more than 0.6 air changes per hour at 50 pascals of pressure.

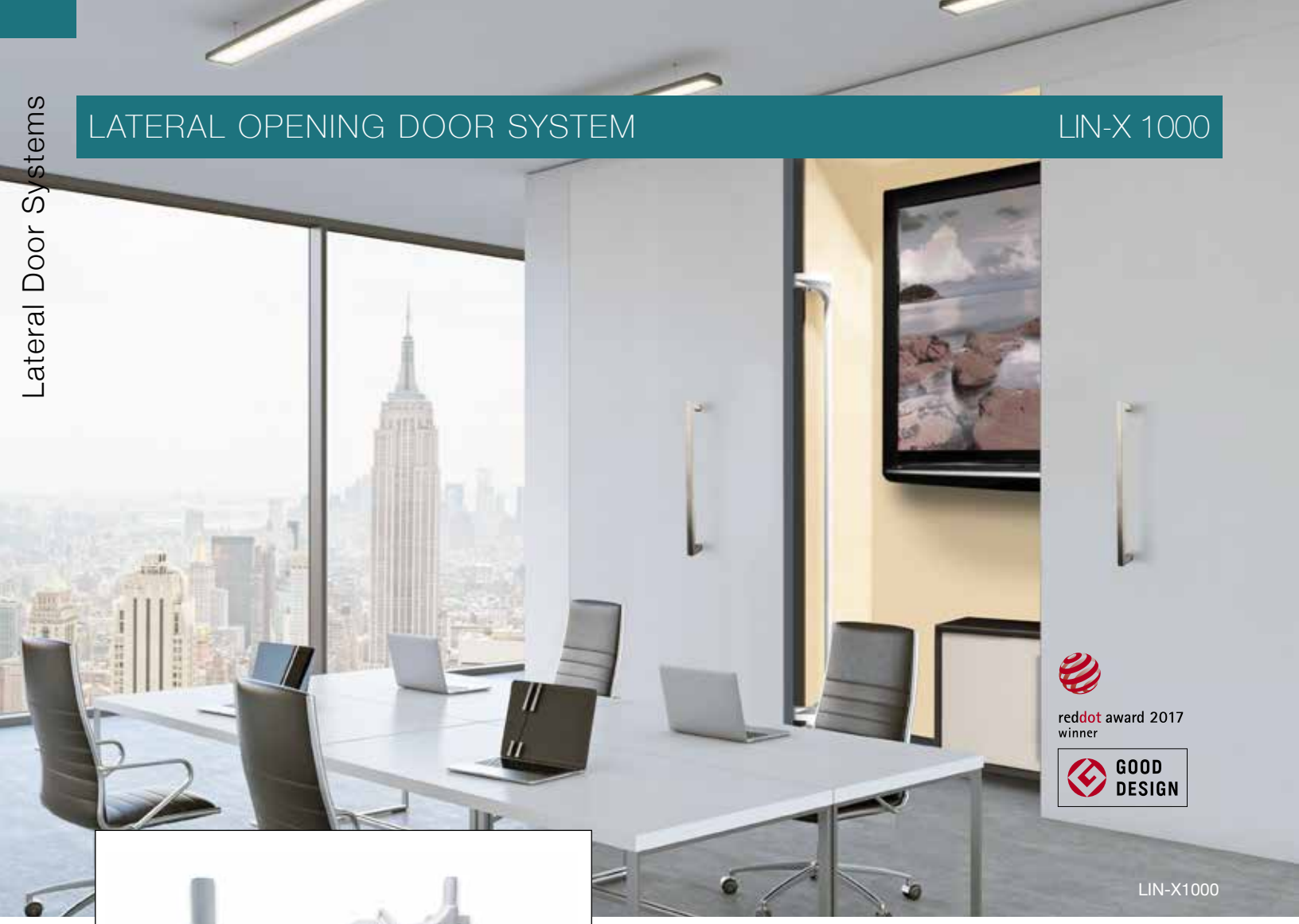
Sugatsune: You incorporated more Sugatsune products, in fact, I see you used the new Push-to-Open Door Latch (ML-ZN80) in conjunction with our LIN-X800. In doing this, don't you lose the soft-closing benefits of the lateral door system?

Everett: Functionality was critical in wanting to use the LIN-X800 system. We wanted to use larger, heavier doors but didn't want to lose access if a door was kept open. But aesthetics, especially in this hallway, was important. I was really inspired by Tesla which the new cyber truck is supposed to not have any exterior handles on their doors and I wanted that look so we couldn't add handles on especially because we really wanted these doors to be hidden. Your Technical Team did advise against this but I believe sacrificing the soft-close feature was worth it and we are happy with how it is truly, a hidden door.

READ FULL ARTICLE



LATERAL OPENING DOOR SYSTEM LIN-X 1000





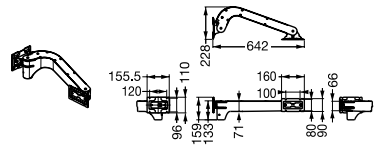
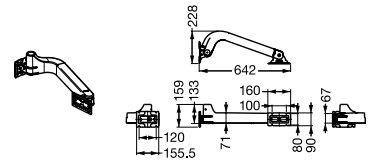
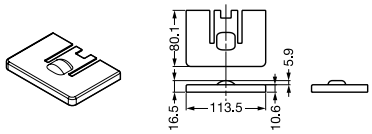
Door Width	29-1/2" ~ 43-5/16" (750 ~ 1100 mm)
Max. Door Height	117-5/16" (2980 mm)
Door Thickness	15/16" ~ 1-9/16" (24 ~ 40 mm)
Max. Door Weight	198 lbs (90 kg/door)

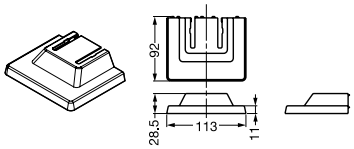
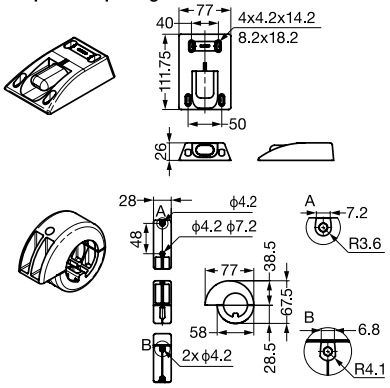
Item No.	Overlay	Material	Finish
LIN-X1000/WT-S	3/4" (19 mm)	Steel, Aluminum	White
LIN-X1000/BL-S			Black

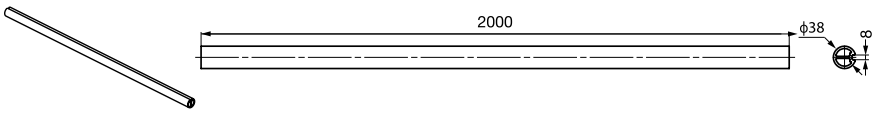
FULL SIZE DOORS LIN-X1000

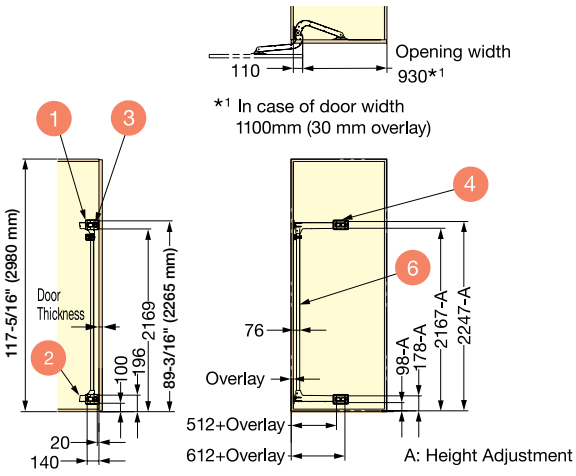
- Lateral Opening Mechanism: Allows doors to swing out laterally in a small radius, ideal for tight front space application.
- Heavy Duty: Max. weight 198 lbs.(90 kg).
- 4-Way Adjustable: Vertical, horizontal, depth and parallel adjustment.
- Smooth Movement: Built-in dampers provide a smooth soft-closing movement.
- Use in various applications: Ideal for closet entryways, large pantry doors, storage, hidden rooms, etc.
- Hardware is non-handed: can be used for left-opening or right-opening doors.
- Designed for overlay installation, but can be installed flush with the surrounding cabinet or wall. Please contact customer service for details on inset installations.

LATERAL OPENING DOOR SYSTEM LIN-X1000

No.	Qty	Dimensions	Description
1	1 pc	**Upper Arm** 	Material: Aluminum Alloy Finish: White/Black Powder Coated
2	1 pc	**Lower Arm** 	Material: Aluminum Alloy Finish: White/Black Powder Coated
3	4 pcs	**Cover for Mounting Plate (Hinge Side)** 	Material: ABS Finish: White/Black

No.	Qty	Dimensions	Description
4	4 pcs	**Cover for Mounting Plate (Door Side)** 	Material: ABS Finish: White/Black
5	1 pc	**Damper for Opening** 	Material: PBT Finish: White/Black

No.	Qty	Dimensions	Description
6	1 pc	**Connecting Bar** 	Material: Aluminum Alloy Finish: White Anodized/Black Anodized



Range of Motion

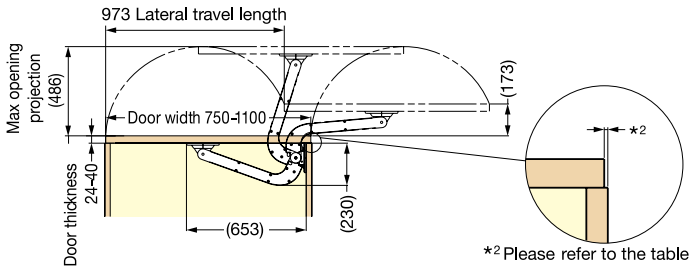


Table 1: Handle position area (for door thickness 40 mm)

Door width \ Hinge side clearance	10 mm	15 mm	20 mm
750 mm - 900 mm	Max. 300 mm	Max. 350 mm	Max. 500 mm
900 mm - 1000 mm	Max. 200 mm	Max. 250 mm	Max. 400 mm
1000 mm - 1100 mm	Max. 100 mm	Max. 150 mm	Max. 300 mm

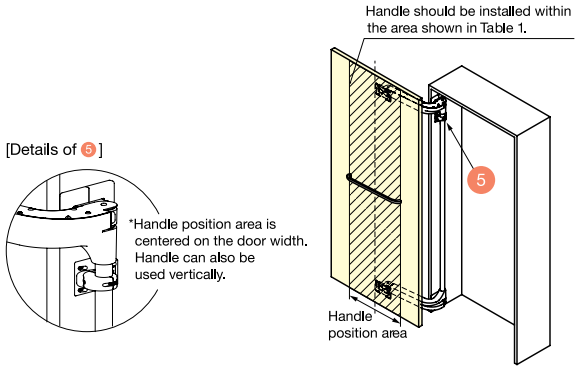


Table 2: Please follow Height Adjustment (A) based on the following table so that the door will not contact the floor.

Door weight	Height Adjustment
44 lbs (20 kg)	2.0 mm
66.1 lbs (30 kg)	3.5 mm
88.2 lbs (40 kg)	5.0 mm
110.2 lbs (50 kg)	6.5 mm
132.2 lbs (60 kg)	8.0 mm
154.3 lbs (70 kg)	9.5 mm
176.3 lbs (80 kg)	11.0 mm
198.4 lbs (90 kg)	12.5 mm



Where Innovation Meets Beauty

Introducing the newest addition to our LIN-X Lateral Opening Door System Series and already social media sensation, the LIN-X800, Ideal for closet entry ways, large pantry doors, storage units, hidden rooms and much more.



LIN-X800

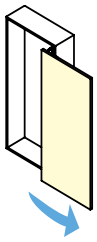
- Lateral Opening Mechanism: Allows doors to swing out laterally in a small radius, ideal for tight front space application.
- 4-Way Adjustable: Vertical, horizontal, depth and parallel adjustment.
- Smooth Movement: Built-in dampers provide a smooth soft-closing movement.
- Use in various applications: Ideal for closet entryways, large pantry doors, storage, hidden rooms, etc. Can be used on L shaped corner spaces.
- Hardware is non-handed: can be used for left or right opening doors.
- Designed for overlay installation, but can be installed flush with the surrounding surfaces. Please contact customer service for details on inset installations.

	LIN-X800	LIN-X800H
Door Width	750 ~ 850 mm (29-1/2" ~ 33-7/16")	
Max. Door Height	94-1/2" (2400 mm)	117-5/16" (2980 mm)
Door Thickness	24 ~ 40 mm (15/16" ~ 1-9/16")	
Max. Door Weight	40 kg/door (88 lbs/door)	

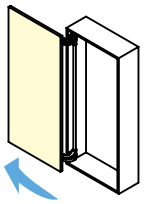
Item No.	Material	Finish
LIN-X800-WT-S	Steel, Aluminum	White
LIN-X800-BL-S		Black
LIN-X800H-WT-S		White
LIN-X800H-BL-S		Black

LATERAL OPENING DOOR SYSTEM LIN-X800

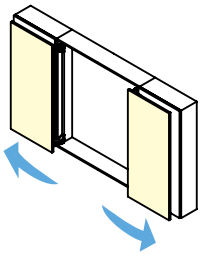
Installation Examples



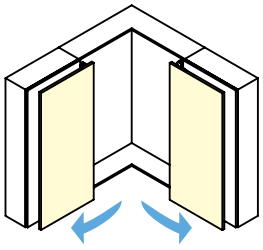
Right



Left

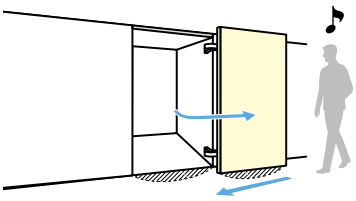


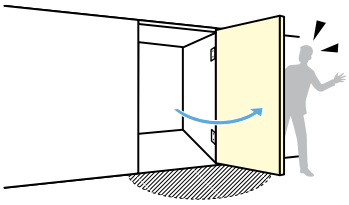
Right/Left Combination

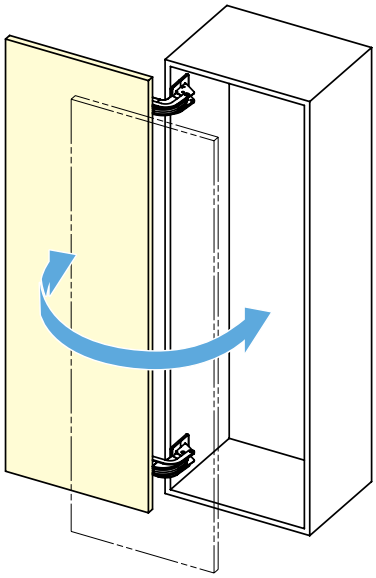


Blind Corner Use

Minimize opening clearance required with LIN-X800, compared to traditional swinging doors.
When closed, the LIN-X door can be flush with the surrounding walls.



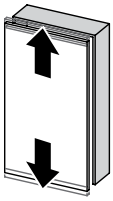




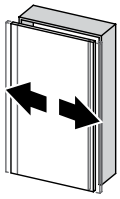
Adjustability

Adjustable in vertical, horizontal, depth and parallel directions.

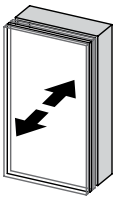
Vertical adjustment ±7 mm



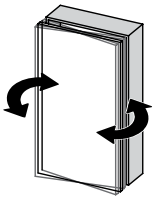
Horizontal adjustment ±7 mm

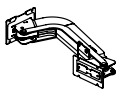
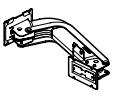
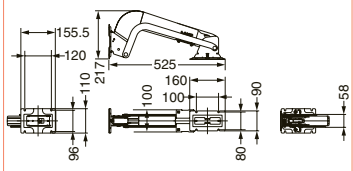
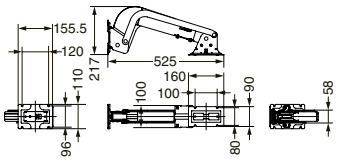


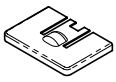
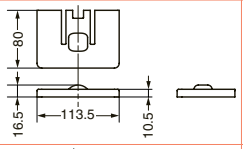
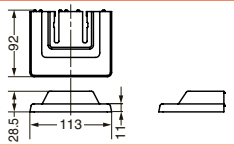
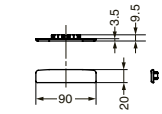
Depth adjustment ±5 mm

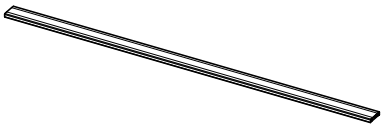
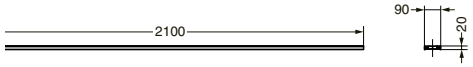
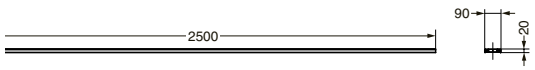


Parallel adjustment ±3°



No.	Qty.	Parts in Set	Dimensions	Material
1	A· B 1 each	Hinge A  Hinge B 	 	Steel, Plastic (POM) Finish: White, Matte Black

No.	Qty.	Parts in Set	Dimensions	Material
2	4 pcs	Washer cover (hanging side) 		Plastic (ABS)
3	4 pcs	Washer cover (leading edge) 		Plastic (ABS)
4	2 pcs	Rod cover 		Plastic (POM)

No.	Qty.	Parts in Set	Dimensions	Material
5	1	Connecting Rod 		Aluminium Alloy Finish: Anodised: Black/silver
				Aluminium Alloy Finish: Anodised: Black/silver



Pure Elegance

Similar to that of a fine handcrafted timepiece, precision is at the heart of the process to blend its gentle edges with an immaculate finish. A process that requires the expertise of a jeweler. With its intricate design details bestowed upon marine grade stainless steel, Zwei L® delivers a simple, natural beauty that compliments a variety of luxurious environments.

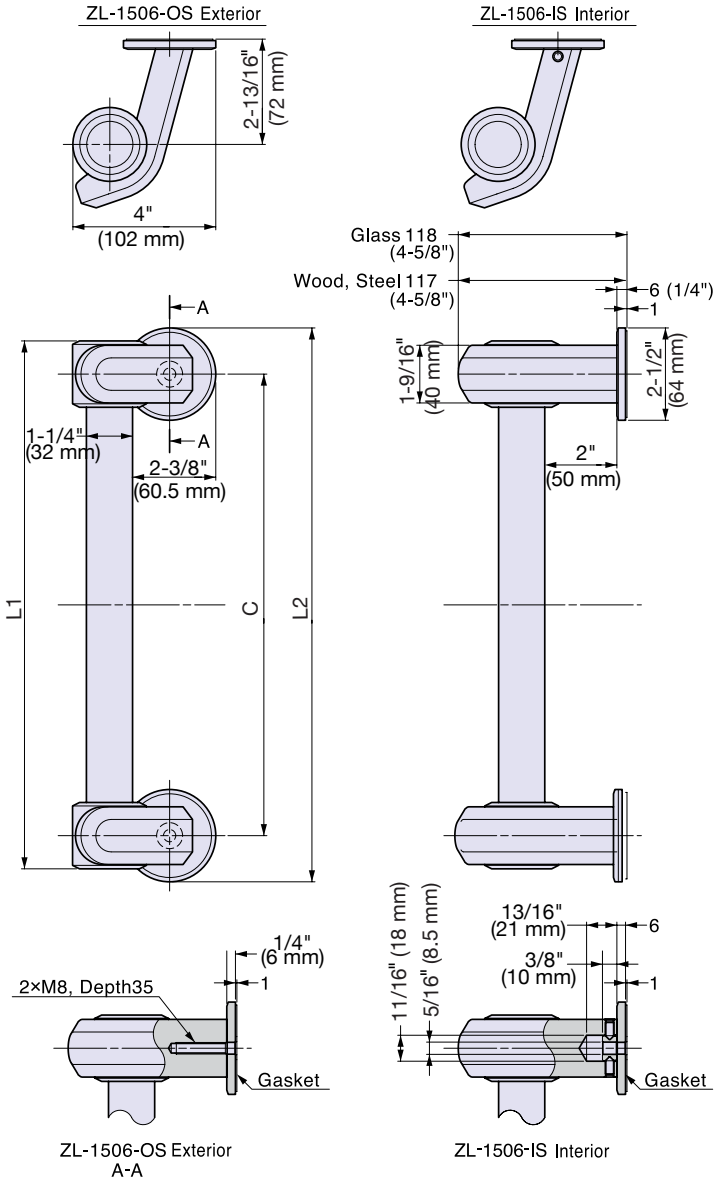
Zwei L®
by Sugatsune

Zweil L® PREMIUM DOOR HANDLE

RoHS compliant | STAINLESS 316 STEEL

ZL-1506

- Can be installed on Glass Door, Wooden or Metal Frame Door.
- Tolerance of screw pitch is ± 1 mm.
- Base Plate included.







Material	Finish
316 Stainless Steel	Zwei L

Item No.			L1	L2	C
Exterior	Interior	Back-to-Back			
ZL-1506-OS-192	ZL-1506-IS-192	ZL-1506-WR-192	9-5/16" (237 mm)	10-1/16" (256 mm)	7-9/16" (192 mm)
ZL-1506-OS-320	ZL-1506-IS-320	ZL-1506-WR-320	4-3/8" (365 mm)	15-1/8" (384 mm)	12-5/8" (320 mm)
ZL-1506-OS-640	ZL-1506-IS-640	ZL-1506-WR-640	27" (685 mm)	27-3/4" (704 mm)	25-3/8" (640 mm)
ZL-1506-OS-960	ZL-1506-IS-960	ZL-1506-WR-960	39-9/16" (1005 mm)	40-5/16" (1024 mm)	37-13/16" (960 mm)

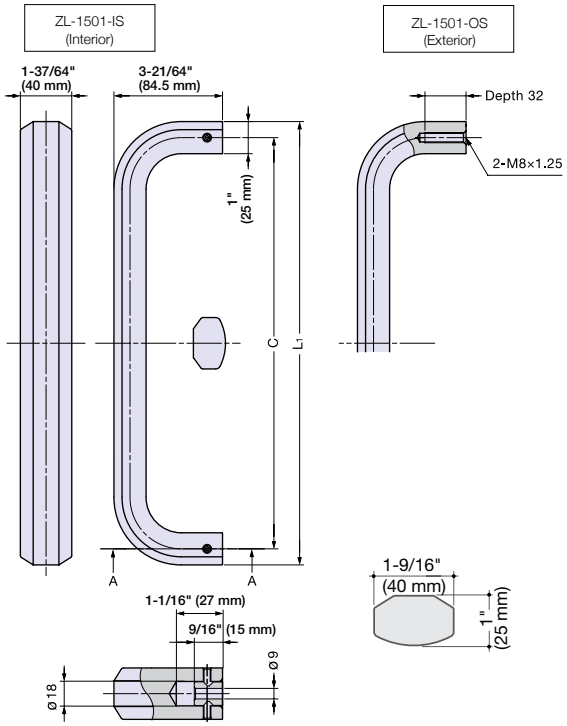
Zweil L® PREMIUM DOOR HANDLE

RoHS company | STAINLESS 316 STEEL

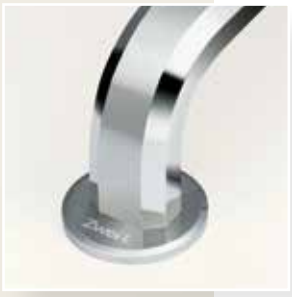
ZL-1501

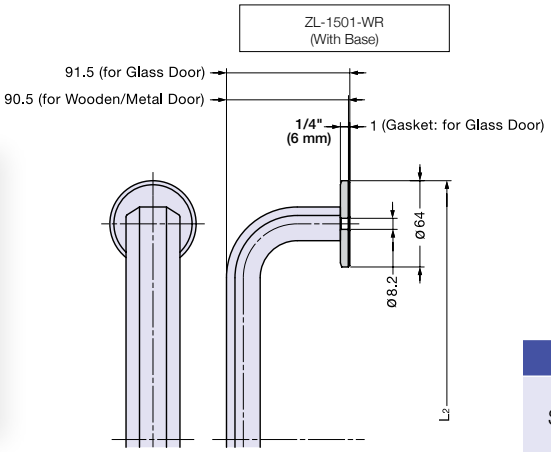


- Can be installed on Glass Door, Wooden or Metal Frame Door.
- Tolerance of screw pitch is ± 1 mm.
- Order base ZL1501-R separately if baseplate is needed for exterior/interior.



ZL-1501-WR (with optional base)





Material	Finish
316 Stainless Steel	Zwei L

Item No.				Dimensions		
Exterior	Interior	Back-to-Back	Back-to-Back with Base	C	L_1	L_2
ZL-1501-OS-320	ZL-1501-IS-320	ZL-1501-WN-320	ZL-1501-WR-320	12-19/32" (320 mm)	13-37/64" (345 mm)	15-1/16" (384 mm)
ZL-1501-OS-640	ZL-1501-IS-640	ZL-1501-WN-640	ZL-1501-WR-640	25-13/64" (640 mm)	26-3/16" (665 mm)	27-3/4" (704 mm)
ZL-1501-OS-960	ZL-1501-IS-960	ZL-1501-WN-960	ZL-1501-WR-960	37-51/64" (960 mm)	38-25/32" (98 mm)	40-5/16" (1024 mm)
*ZL-1501-OS-1280	*ZL-1501-IS-1280	*ZL-1501-WN-1280	*ZL-1501-WR-1280	50-25/64" (1280 mm)	51-3/8" (1305 mm)	52-15/16" (1344 mm)
*ZL-1501-OS-1600	*ZL-1501-IS-1600	*ZL-1501-WN-1600	*ZL-1501-WR-1600	62-63/64" (1600 mm)	63-31/32" (1625 mm)	65-1/2" (1664 mm)
*ZL-1501-OS-1920	*ZL-1501-IS-1920	*ZL-1501-WN-1920	*ZL-1501-WR-1920	75-19/32" (1920 mm)	76-37/64" (1945 mm)	78-1/8" (1984 mm)

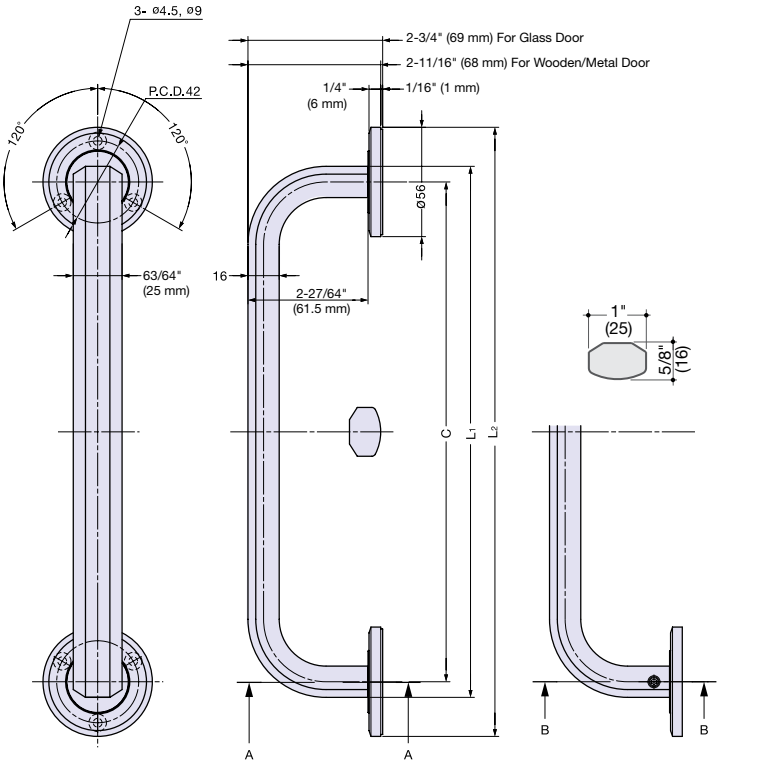
*Length over 960 are special order item.

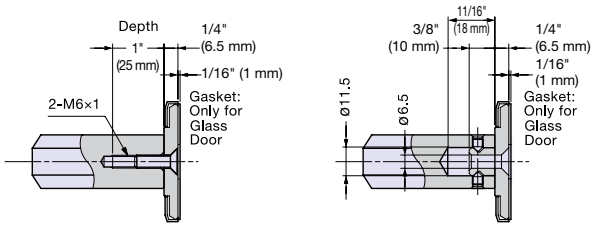
Zwei L® PREMIUM DOOR HANDLE

RoHS compliant | STAINLESS 316 STEEL

ZL-1502

- Can be installed on Glass Door, Wooden or Metal Frame Door.
- Tolerance of screw pitch is ± 1 mm.
- Base Plate included.







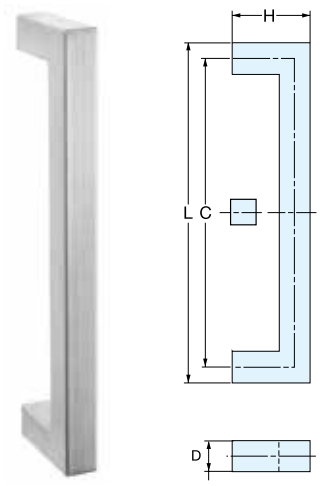
Material	Finish
316 Stainless Steel	Zwei L

Item No.			Dimensions		
Exterior	Interior	Back-to-Back	C	L_1	L_2
ZL-1502-OS-192	ZL-1502-IS-192	ZL-1502-WR-192	7-9/16" (192 mm)	8-3/16" (208 mm)	9-3/4" (248 mm)
ZL-1502-OS-320	ZL-1502-IS-320	ZL-1502-WR-320	12-19/32" (320 mm)	13-15/64" (336 mm)	14-13/16" (376 mm)
ZL-1502-OS-640	ZL-1502-IS-640	ZL-1502-WR-640	25-13/64" (640 mm)	25-53/64" (656 mm)	27-3/8" (696 mm)
ZL-1502-OS-960	ZL-1502-IS-960	ZL-1502-WR-960	37-51/64" (960 mm)	38-27/64" (976 mm)	40" (1016 mm)

STAINLESS STEEL DOOR HANDLES

STAINLESS 304 STEEL

DSI-4400



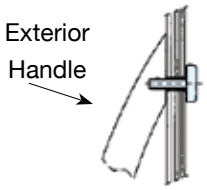
- For use with DSI mounting kits.
- Please specify Interior/Exterior type when ordering:
  Posts for Exterior handles are threaded to accept screws.
  Posts for Interior handles have set screws for DSI mounting kits.

Material	Finish
304 Stainless Steel	Satin

Item No.		D	L	C	H	Box (pcs)	Carton (pcs)
Interior	Exterior						
DSI-4400-15-15I	DSI-4400-15-15E	9/16" (15 mm)	6-1/2" (165 mm)	5-29/32" (150 mm)	2-3/16" (55 mm)	1	10
DSI-4400-15-20I	DSI-4400-15-20E		8-1/2" (215 mm)	7-7/8" (200 mm)			
DSI-4400-15-30I	DSI-4400-15-30E		12-3/8" (315 mm)	11-13/16" (300 mm)			
DSI-4400-20-20I	DSI-4400-20-20E	13/16" (20 mm)	8-11/16" (220 mm)	7-7/8" (200 mm)	2-9/16" (65 mm)		
DSI-4400-20-25I	DSI-4400-20-25E		10-5/8" (270 mm)	9-27/32" (250 mm)			
DSI-4400-20-30I	DSI-4400-20-30E		12-5/8" (320 mm)	11-13/16" (300 mm)			
DSI-4400-30-25I	DSI-4400-30-25E	1-3/16" (30 mm)	11" (280 mm)	9-27/32" (250 mm)	3-9/16" (90 mm)		
DSI-4400-30-30I	DSI-4400-30-30E		12" (330 mm)	11-13/16" (300 mm)			
DSI-4400-30-35I	DSI-4400-30-35E		14-15/16" (380 mm)	13-25/32" (350 mm)			
DSI-4400-30-60I	DSI-4400-30-60E		24-13/16" (630 mm)	23-5/8" (600 mm)			

MOUNTING KITS FOR DSI SERIES DOOR HANDLES

Single handle installation kit for wood/glass/metal doors

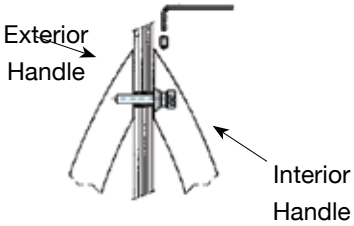


Max. Door Thickness:

DSI-1630-30:100 mm (4")
DSI-2000-20: 80 mm (3-3/16")
DSI-2000-30: 80 mm (3-3/16")
DSI-3310-15: 60 mm (2-3/8")
DSI-3310-20: 60 mm (2-3/8")
DSI-3310-30: 60 mm (2-3/8")
DSI-3330-30:100 mm (4")
DSI-4400-15: 60 mm (2-3/8")
DSI-4400-20: 60 mm (2-3/8")
DSI-4400-30: 60 mm (2-3/8")

Item No.	For use with
DKIT-2/15-1	DSI-3310-15
DKIT-2/15-2	DSI-4400-15
DKIT-2/20-1	DSI-2000-20/DSI-3310-20
DKIT-2/20-2	DSI-4400-20
DKIT-2/30-1	DSI-1630-30/DSI-2000-30 DSI-3310-30/DSI-3330-30
DKIT-2/30-2	DSI-4400-30

Back-to-back handle installation kit for wood/glass/metal doors

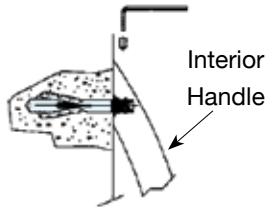


Max. Door Thickness:

DSI-1630-30: 90 mm (3-1/2")
DSI-2000-20:100 mm (4")
DSI-2000-30: 45 mm (1-3/4")
DSI-3310-15:100 mm (4")
DSI-3310-20:100 mm (4")
DSI-3310-30:100 mm (4")
DSI-3330-30:100 mm (4")
DSI-4400-15:100 mm (4")
DSI-4400-20:100 mm (4")
DSI-4400-30:100 mm (4")

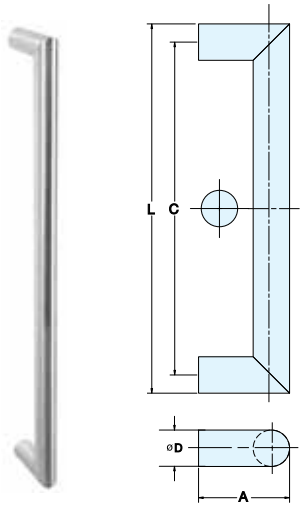
Item No.	For use with
DKIT-4/15-1	DSI-3310-15
DKIT-4/15-2	DSI-4400-15
DKIT-4/20-1	DSI-2000-20/DSI-3310-20
DKIT-4/20-2	DSI-4400-20
DKIT-4/30-1	DSI-1630-30/DSI-2000-30 DSI-3310-30/DSI-3330-30
DKIT-4/30-2	DSI-4400-30

Single handle installation for concrete walls



Item No.	For use with
DKIT-5/15	DSI-3310-15/DSI-4400-15
DKIT-5/20	DSI-2000-20/DSI-3310-20 DSI-4400-20
DKIT-5/30	DSI-1630-30/DSI-2000-30 DSI-3310-30/DSI-3330-30 DSI-4400-30

STAINLESS STEEL DOOR HANDLES — DSI-3310

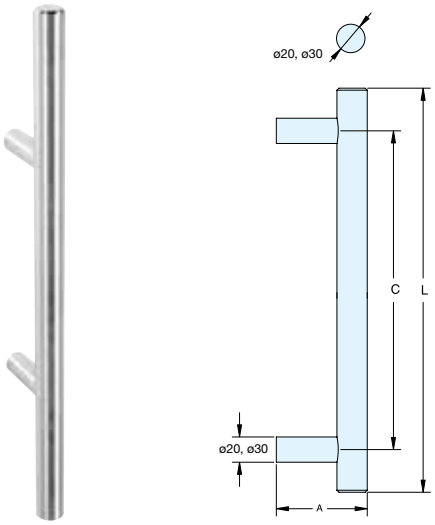


- For use with DSI mounting kits.
- Please specify Interior/Exterior type when ordering:
  Posts for Exterior handles are threaded to accept screws.
  Posts for Interior handles have set screws for DSI mounting kits.

Item No.		D	L	C	A	Box (pcs)	Carton (pcs)
Interior	Exterior						
DSI-3310-15-15I	DSI-3310-15-15E	9/16" (15 mm)	6-1/2" (165 mm)	5-29/32" (150 mm)	2-3/16" (55 mm)	1	10
DSI-3310-15-20I	DSI-3310-15-20E		8-1/2" (215 mm)	7-7/8" (200mm)			
DSI-3310-15-30I	DSI-3310-15-30E		12-3/8" (315 mm)	11-13/16" (300 mm)			
DSI-3310-20-20I	DSI-3310-20-20E	13/16" (20 mm)	8-11/16" (220 mm)	7-7/8" (200 mm)	2-9/16" (65 mm)		
DSI-3310-20-25I	DSI-3310-20-25E		10-5/8" (270 mm)	9-27/32" (250 mm)			
DSI-3310-20-30I	DSI-3310-20-30E		12-5/8" (320 mm)	11-13/16" (300 mm)			
DSI-3310-30-25I	DSI-3310-30-25E	1-3/16" (30 mm)	11" (280 mm)	9-27/32" (250 mm)	3-9/16" (90 mm)		
DSI-3310-30-30I	DSI-3310-30-30E		12" (330 mm)	11-13/16" (300 mm)			
DSI-3310-30-35I	DSI-3310-30-35E		14-15/16" (380 mm)	13-25/32" (350 mm)			
DSI-3310-30-60I	DSI-3310-30-60E		24-13/16" (630 mm)	23-5/8" (600 mm)			

Material	Finish
304 Stainless Steel	Satin

STAINLESS STEEL DOOR HANDLES — DSI-2000



- For use with DSI mounting kits.
- Please specify Interior/Exterior type when ordering:
  Posts for Exterior handles are threaded to accept screws.
  Posts for Interior handles have set screws for DSI mounting kits.

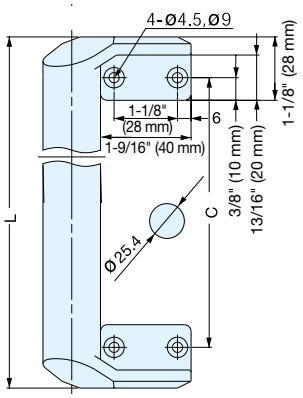
Material	Finish
304 Stainless Steel	Satin

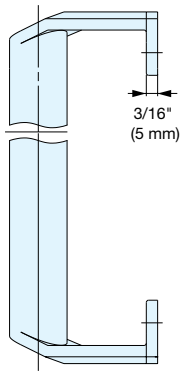
Item No.		L	C	A	Weight (kg)	Box (pcs)	Carton (pcs)
Interior	Exterior				Interior/Exterior		
DSI-2000-20-20I	DSI-2000-20-20E	11-13/16" (300 mm)	7-7/8" (200 mm)	2-9/16" (65 mm)	0.89	2	10
DSI-2000-20-25I	DSI-2000-20-25E	15-3/4" (400 mm)	9-7/8" (250 mm)		1.11		
DSI-2000-20-30I	DSI-2000-20-30E	17-3/4" (450 mm)	11-13/16" (300 mm)		1.26		
DSI-2000-20-50I	DSI-2000-20-50E	27-9/16" (700 mm)	19-11/16" (500 mm)		0.54		

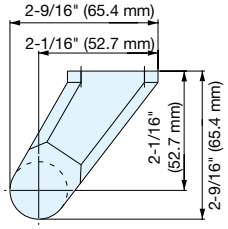
Item No.		L	C	A	Weight (kg)		Box (pcs)	Carton (pcs)
Interior	Exterior				Interior	Exterior		
DSI-2000-30-25I	DSI-2000-30-25E	21-5/8" (500 mm)	9-7/8" (250 mm)	3-9/16" (90 mm)	1.34	1.11	2	10
DSI-2000-30-35I	DSI-2000-30-35E	25-9/16" (650 mm)	13-3/4" (350 mm)		1.22	1.20		
DSI-2000-30-45I	DSI-2000-30-45E	29-1/2" (750 mm)	17-3/4" (450 mm)		1.34	1.29		
DSI-2000-30-60I	DSI-2000-30-60E	35-7/16" (900 mm)	23-5/8" (600 mm)		1.50	1.50		

LARGE STAINLESS STEEL HANDLE — MP SERIES









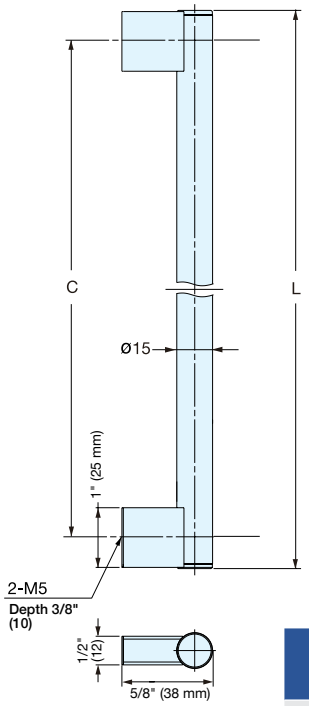
- Ideal for high corrosive environments.
- Designed for machinery applications where a heavy duty handle is required.

Material	Finish
316 Stainless Steel	Mirror

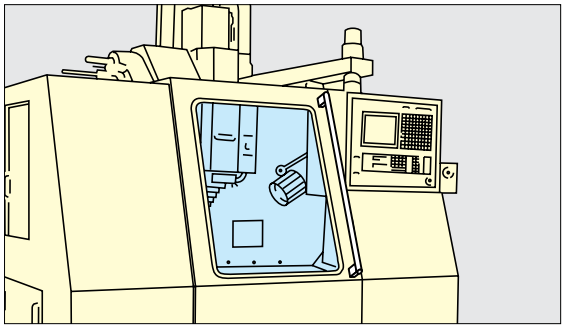
Item No.	L	C	Weight (g)	Box (pcs)	Carton (pcs)
MP-500	19-11/16" (500 mm)	18-17/64" (464 mm)	1000	2	20
MP-750	29-1/2" (750 mm)	28-7/64" (714 mm)	1300		16
MP-1000	39-3/8" (1000 mm)	37-61/64" (964 mm)	1600		12

LARGE STAINLESS STEEL HANDLE — RH-760





- Low profile design.
- Designed for machinery applications where a heavy duty handle is required.
- Recommended screw size: M5.

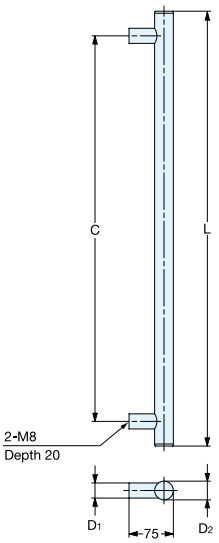


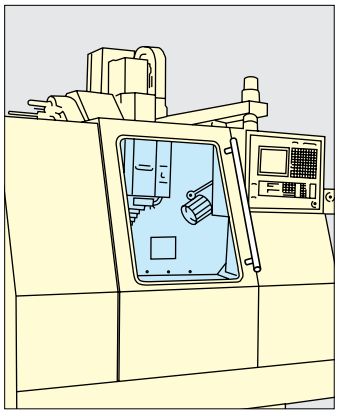
Material	Finish
304 Stainless Steel	Satin

Item No.	L	C	Weight (g)	Box (pcs)	Carton (pcs)
RH-760	30-15/16" (786 mm)	29-59/64" (760 mm)	340	20	200

LARGE STAINLESS STEEL HANDLE — SSH SERIES







- Ideal in high corrosive environments and machinery applications.
- Designed for applications where a heavy duty handle is required.
- Recommended screw size: M8.

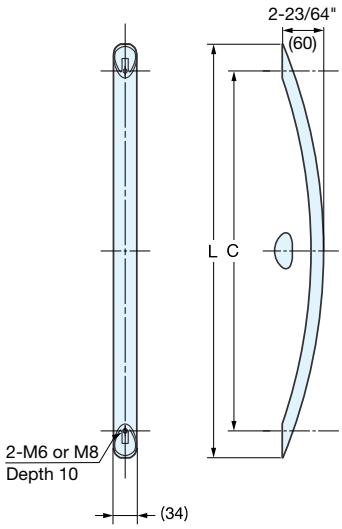
Material	Finish
304 Stainless Steel	Satin

Item No.	L	C	D_1	D_2	Weight (g)	Box (pcs)	Carton (pcs)
SSH-2540	15-3/4" (400mm)	12-7/16" (316 mm)	3/4" (19 mm)	1" (25 mm)	665	10	100
SSH-2560	29-5/8" (600 mm)	20-5/16" (516 mm)			750		
SSH-2580	31-1/2" (800 mm)	28-3/16" (716 mm)			840		
SSH-3240	15-3/4" (400mm)	12-7/16" (316 mm)	1" (25 mm)	1-3/4" (32 mm)	1175	5	50
SSH-3260	29-5/8" (600 mm)	20-5/16" (516 mm)			1290		
SSH-3280	31-1/2" (800 mm)	28-3/16" (716 mm)			1400		

LARGE ALUMINUM HANDLE — SOR SERIES



Black (BL) Anodized (S)



- Ideal for machinery applications where a large handle is required.
- Recommended screw size:
  M6 (400 and 600)
  M8 (800)

Material	Finish
Aluminum	Anodized (S), Black (BL)

Item No.		L	C	Weight (g)	Box (pcs)	Carton (pcs)
SOR-400/S	SOR-400/BL	15-23/64" (390 mm)	13-3/16" (335 mm)	385	30	300
SOR-600/S	SOR-600/BL	23-5/8" (600 mm)	20-35/64" (522 mm)	495	20	200
SOR-800/S	SOR-800/BL	32-1/8" (816 mm)	27-61/64" (710 mm)	605	15	150

We got a **Handle** on this...



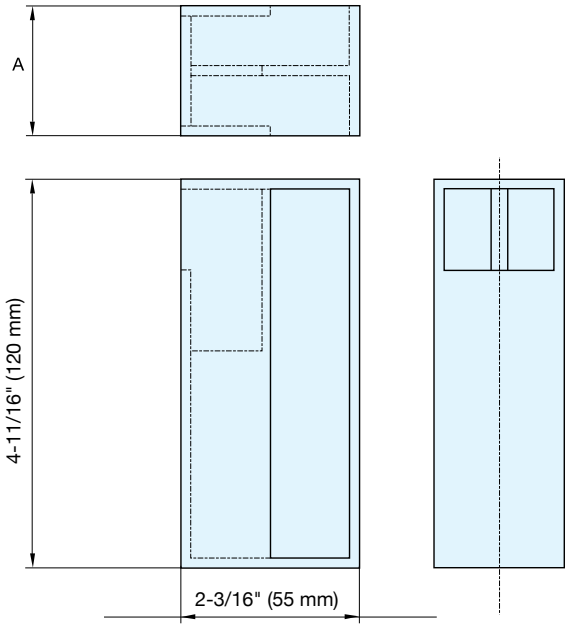
SLIDING DOOR HANDLE

STAINLESS 304 STEEL

DSI-4251



- Contemporary handle design that can be accessed from door front, back, or edge.
- Requires adhesive for installation, such as 2-part epoxy, not supplied.



Item No.	A	Weight (g)	Box (pcs)	Carton (pcs)
DSI-4251-35	1-3/8" (35 mm)	490	1	10
DSI-4251-38	1-1/2" (38 mm)	515		
DSI-4251-40	1-9/16" (40 mm)	530		
DSI-4251-43	1-11/16" (43 mm)	550		
DSI-4251-45	1-3/4" (44.5 mm)	570		
DSI-4251-50	1-31/32" (50 mm)	590		

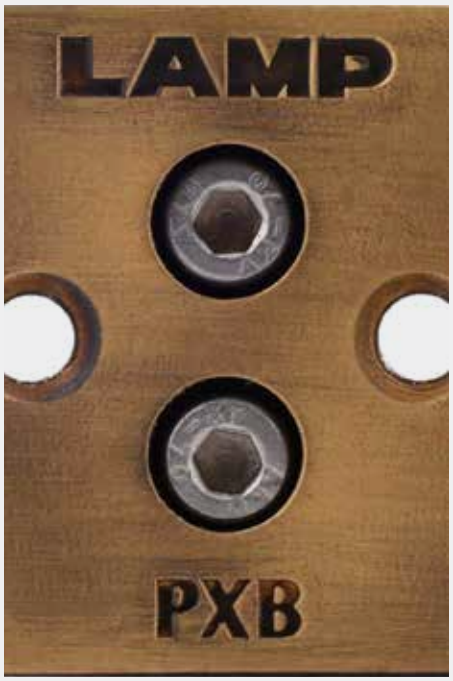
Material	Finish
304 Stainless Steel	Satin

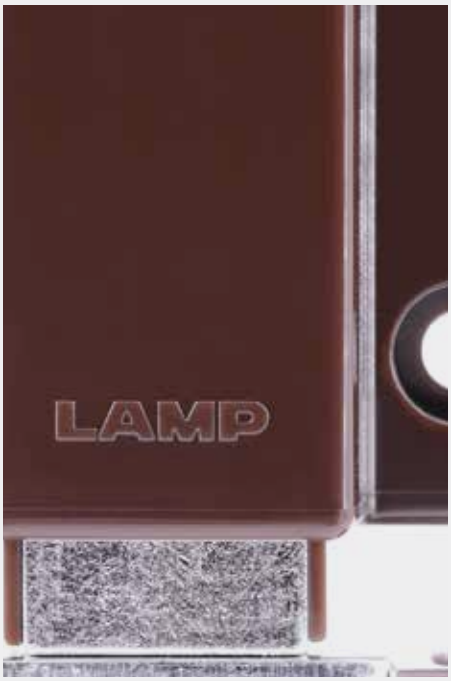


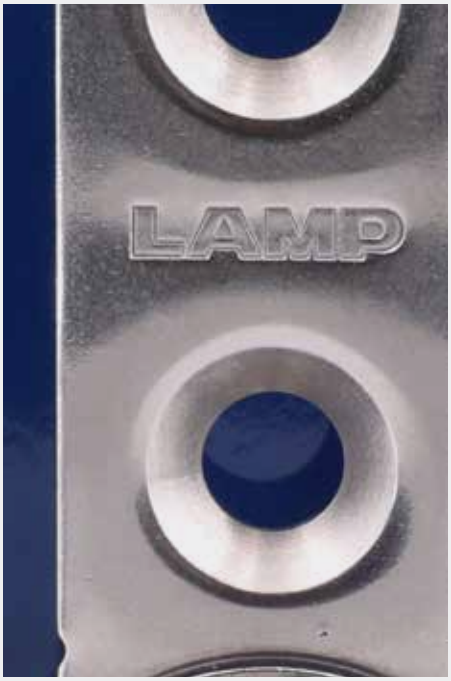
LAMP®

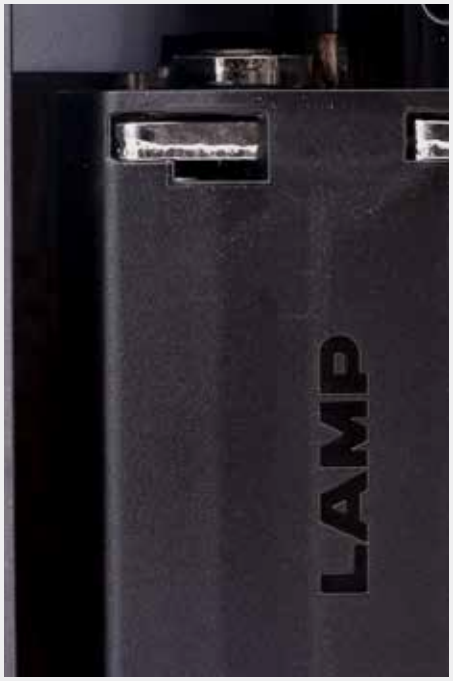
If you know this logo, then you know us!











For more than 90 years Sugatsune has manufactured **LAMP**® brand products while innovating unique movements, materials and designs.

SLIDING DOOR HANDLE

STAINLESS 304 STEEL

DSI-3250

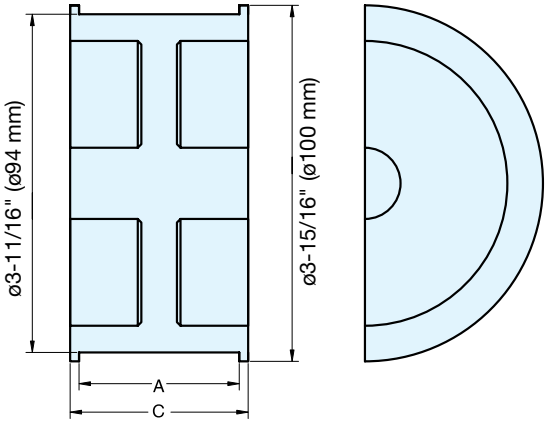


Matte Black



Satin

- Contemporary handle design that can be accessed from door front, back, or edge.
- Requires adhesive for installation, such as 2-part epoxy, not supplied.



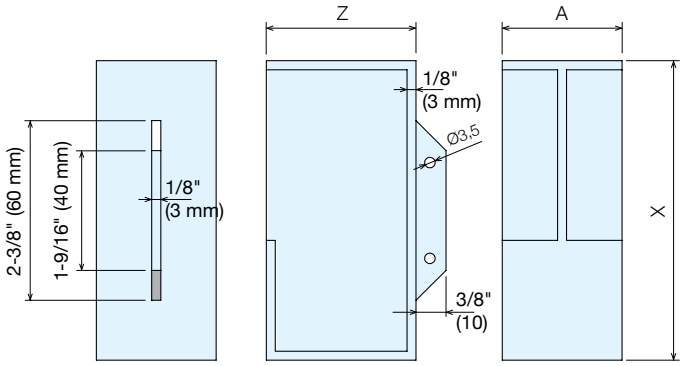
Material	Finish
304 Stainless Steel	Satin
Brass (AB model only)	Antique Brass (AB)

Item No.	C	A	Weight (g)	Box (pcs)	Carton (pcs)
DSI-3250-12-1	11/16" (17 mm)	1/2" (12.7 mm)	280	1	10
DSI-3250-35	1-17/32" (39 mm)	1-3/8" (35 mm)	440		
DSI-3250-35-BL					
DSI-3250-45	1-15/16" (49 mm)	1-49/64" (45.0 mm)	550		
DSI-3250-45-BL					
DSI-3250-50	2-1/8" (54 mm)	1-31/32" (50 mm)	670		

SLIDING DOOR HANDLE

STAINLESS 304 STEEL

DSI-4254



- Contemporary handle design that can be accessed from door front, back, or edge.
- Requires adhesive for installation, such as 2-part epoxy, not supplied.



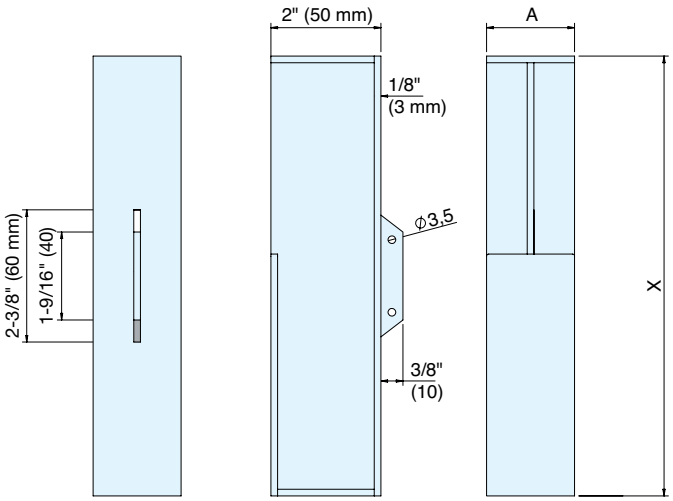
Item No.	A	X	Z	Weight (g)	Box (pcs)	Carton (pcs)
DSI-4254-100-35	1-3/8" (35 mm)	3-15/16" (100 mm)	2" (50 mm)	293	1	10
DSI-4254-100-35-BL						
DSI-4254-100-45	1-3/4" (45 mm)	3-15/16" (100 mm)	2" (50 mm)	345		
DSI-4254-100-45-BL						
DSI-4254-200-35	1-3/8" (35 mm)	7-7/8" (200 mm)	3-3/8" (85 mm)	746		
DSI-4254-200-45	1-3/4" (45 mm)	7-7/8" (200 mm)	3-3/8" (85 mm)	822		
DSI-4254-300-35	1-3/8" (35 mm)	11-13/16" (300 mm)	3-3/8" (85 mm)	1110		
DSI-4254-300-45	1-3/4" (45 mm)	11-13/16" (300 mm)	3-3/8" (85 mm)	1231		
DSI-4254-300-45-BL						
DSI-4254-500-35	1-3/8" (35 mm)	19-11/16" (500 mm)	3-3/8" (85 mm)	1795		
DSI-4254-500-45	1-3/4" (45 mm)	19-11/16" (500 mm)	3-3/8" (85 mm)	2019		

Material	Finish
304 Stainless Steel	Satin, Black (BL

SLIDING DOOR HANDLE

STAINLESS 304 STEEL

DSI-4254S



- Contemporary handle design that can be accessed from door front, back, or edge.
- Requires adhesive for installation such, as 2-part epoxy, not supplied.



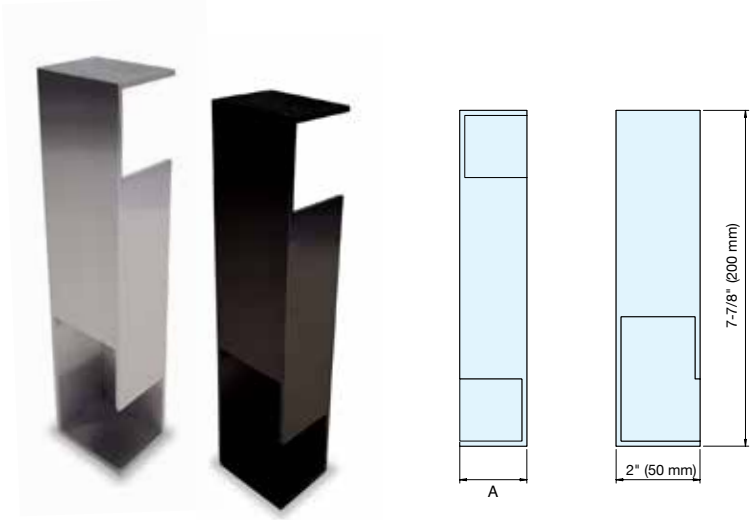
Item No.	A	X	Weight (g)	Box (pcs)	Carton (pcs)
DSI-4254S200-35	1-3/8" (35 mm)	7-7/8" (200 mm)	541	1	10
DSI-4254S200-45	1-3/4" (45 mm)	7-7/8" (200 mm)	626		
DSI-4254S300-35	1-3/8" (35 mm)	11-13/16" (300 mm)	811		
DSI-4254S300-35-BL					
DSI-4254S300-45	1-3/4" (45 mm)	11-13/16" (300 mm)	941		
DSI-4254S300-45-BL					

Material	Finish
304 Stainless Steel	Satin

SLIDING DOOR HANDLE

STAINLESS 304 STEEL

DSI-4257



- Contemporary handle design that can be accessed from door front, back, or edge.
- Requires adhesive for installation such as 2-part epoxy, not supplied.



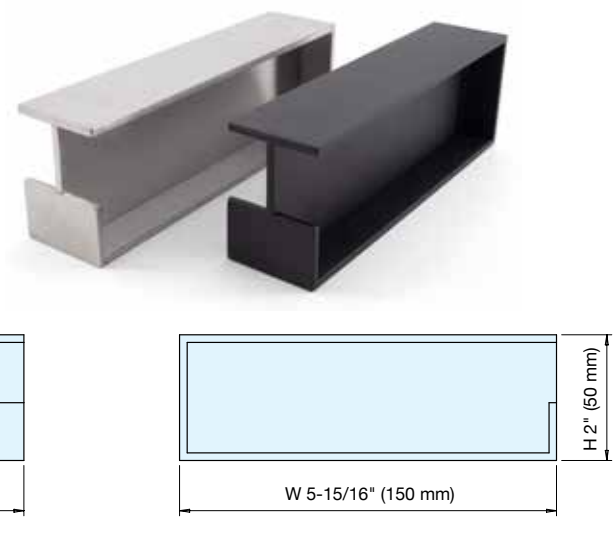
Item No.	Finish	A	Weight (g)	Box (pcs)	Carton (pcs)
DSI-4257-35	Satin	1-3/8" (35 mm)	528	1	8
DSI-4257-35-BL	Black				
DSI-4257-45	Satin	1-3/4" (45 mm)	625		
DSI-4257-45-BL	Black				

Material	Finish
304 Stainless Steel	Satin, Black (BL

SLIDING DOOR HANDLE

STAINLESS 304 STEEL

DSI-4258



- Contemporary handle design that can be accessed from door front, back, or edge.
- Requires adhesive for installation, such as 2-part epoxy, not supplied.
- Unique, horizontal design.



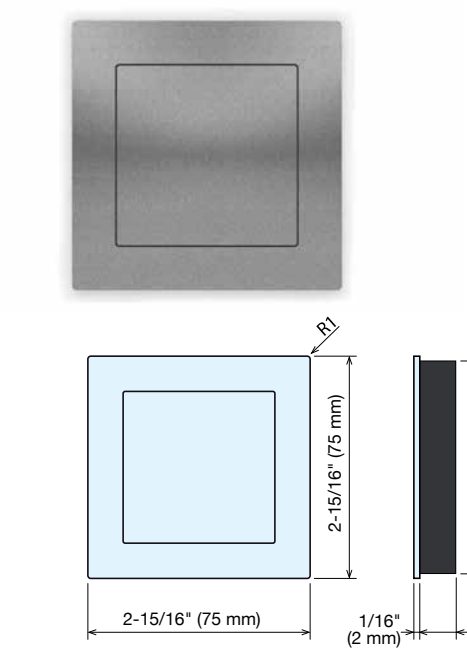
Item No.	W	H	A	Weight (g)	Box (pcs)	Carton (pcs)
DSI-4258-35	5-15/16" (150)	2" (50)	1-3/8" (35)	496	1	18
DSI-4258-35-BL						
DSI-4258-45			1-3/4" (45)	542		
DSI-4258-45-BL						

Material	Finish
304 Stainless Steel	Satin, Black (BL

RECESSED PULLS

STAINLESS 304 STEEL

DSI-4501



- Modern, unobtrusive design.
- 1/16" (2 mm) projection, ideal for furniture or pocket doors.

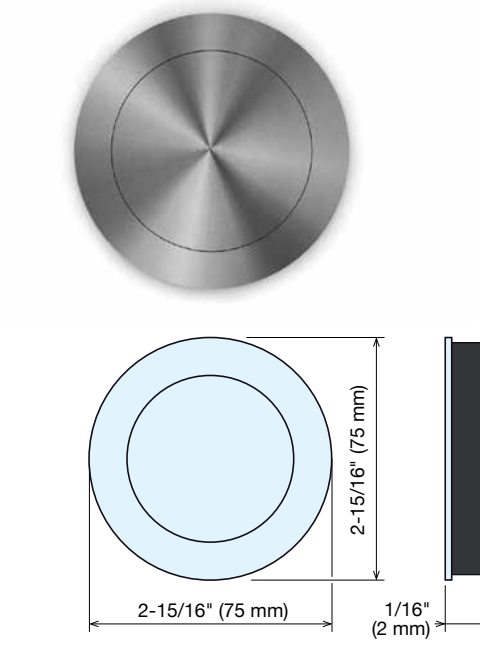


Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
DSI-4501-75	141	10	40	304 Stainless Steel, Plastic, Steel	Satin

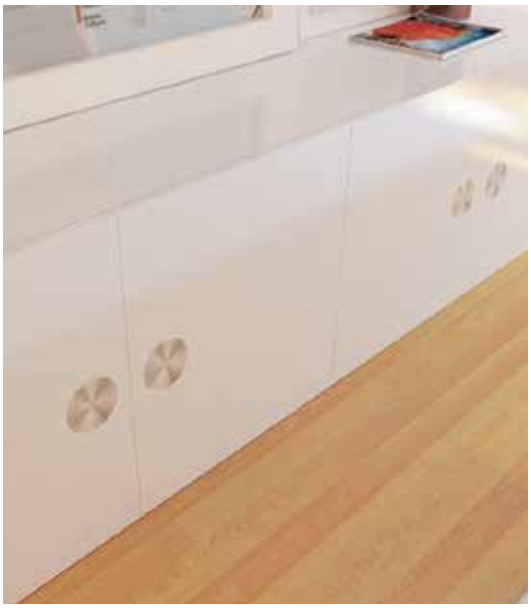
RECESSED PULLS

STAINLESS 304 STEEL

DSI-4502



- Modern, unobtrusive design.
- 1/16" (2 mm) projection, ideal for furniture or pocket doors.

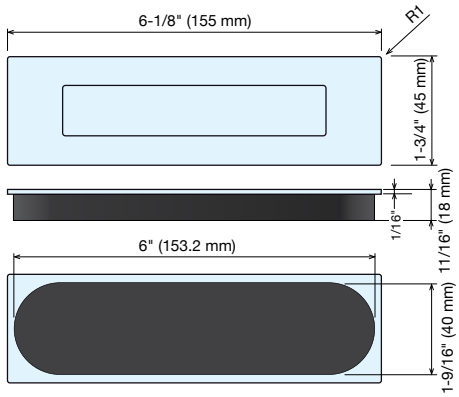


Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
DSI-4502-75	122	10	40	304 Stainless Steel, Plastic, Steel	Satin

RECESSED PULLS — DSI-4503

STAINLESS 304 STEEL





- Modern, unobtrusive design.
- 1/16" (2 mm) projection, ideal for furniture or pocket doors.

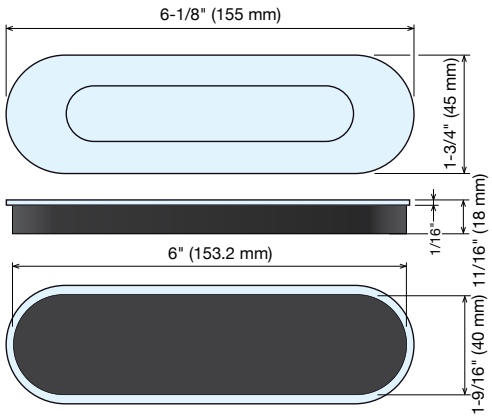


Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
DSI-4503-155	173	10	40	304 Stainless Steel, Plastic, Steel	Satin

RECESSED PULLS — DSI-4504

STAINLESS 304 STEEL





- Modern, unobtrusive design.
- 1/16" (2 mm) projection, ideal for furniture or pocket doors.



Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
DSI-4504-155	170	10	40	304 Stainless Steel, Plastic, Steel	Satin



PUSH-TO-OPEN DOOR LATCHES ML-ZN80

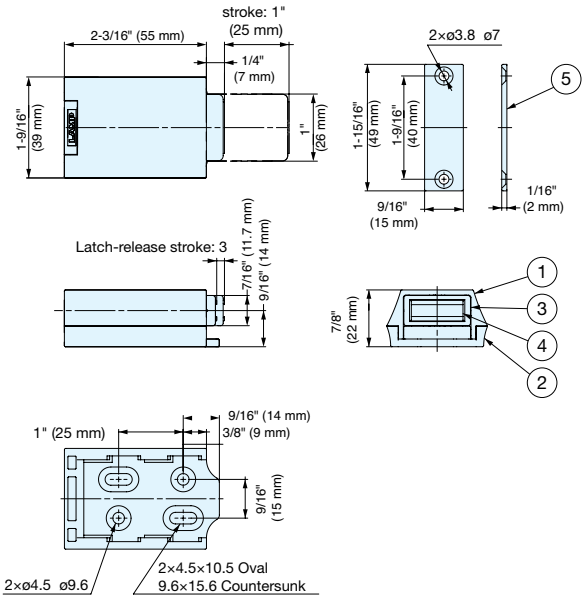
The Magnetic Touch

- For doors up to 36" x 96". Ideal for use with the HES3D-E190/W190 Concealed Door Hinge Series.
- Push force of 11 lbs. Can push up to 275 lbs door.
- Hidden Mounting Screw Design for clean appearance and easy installation.
- Both models passed 100,000 open/close private cycle test.



The mighty **ML-ZN80** and **ML-ZN130 Push-To-Open Door Latches** feature a strong 11 lbs push force, making them ideal for large doors up to 275 lbs. The ML-ZN130 offers a longer stroke for easier opening, while both models feature a durable metal fabrication for long-lasting performance. A built-in magnet allows for tolerance with up to a 1.5° swivel, and the hidden mounting screw design delivers a clean appearance with an easy two-part installation. Both sizes available in three finishes.

These are the only Push-To-Open Door Latches in this category currently available on the market.



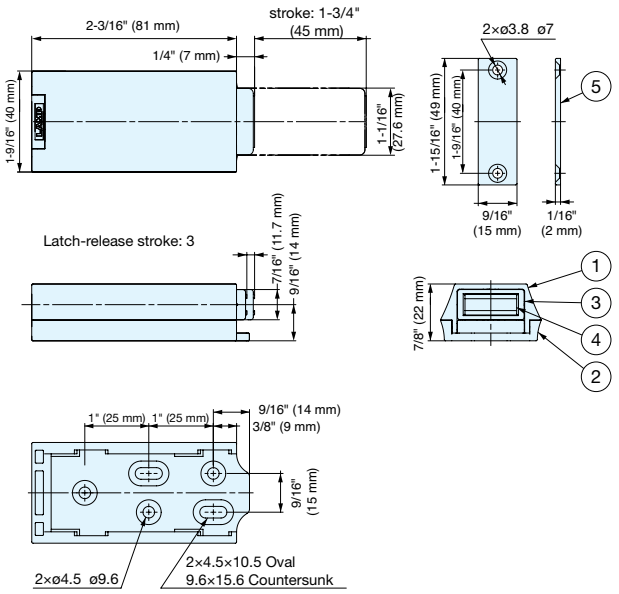
Item No.	Magnetic Force	Push Force	Max. Door Specs (Reference)			Box (pcs)	Carton (pcs)	Weight (g)
			Height	Width	Weight			
ML-ZN80-WT	6.6 lbs (3 kg)	11 lbs (5 kg)	96-1/16" (2440 mm)	36" (915 mm)	275 lbs. (125 kg)	10	40	160
ML-ZN80-BL								
ML-ZN80-BR								
ML-ZN130-WT						10	50	212
ML-ZN130-BL								
ML-ZN130-BR								

ML-ZN130

NEW



- In addition to all the great benefits of the ML-ZN80, the ML-ZN130 also features a large 45mm stroke, providing ample door grip space for easier opening and pulling.
- **Flame resistance:** Resin parts for both models use UL94V-0 compliant material.
- Metal body provides high strength and durability.



No.	Part Name	Material	Finish/Color
1	Body	Zinc Alloy	White (WT), Black (BL) Brown (BR)
2	Mounting Plate		
3	Latch	Plastic (PA)	-
4	Magnet	Ferrite	
5	Strike Plate	Stainless Steel	Polished

Create This Look with Sugatsune

Sugatsune's collection of premium catches and latches for cabinets, sliding doors or versatile storage systems. Our selection includes a wide range of magnetic and non-magnetic catches, push-to-open knobs and touch latches.



Touch Latch, MLC-100
Self adjusting, non magnetic.



Touch Latch, MC-37
Push-to-open, non magnetic.

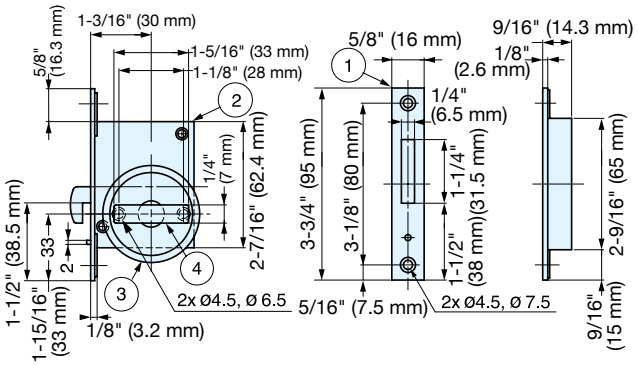


Magnetic Touch Latch, ML-80
Push to latch/unlatch.

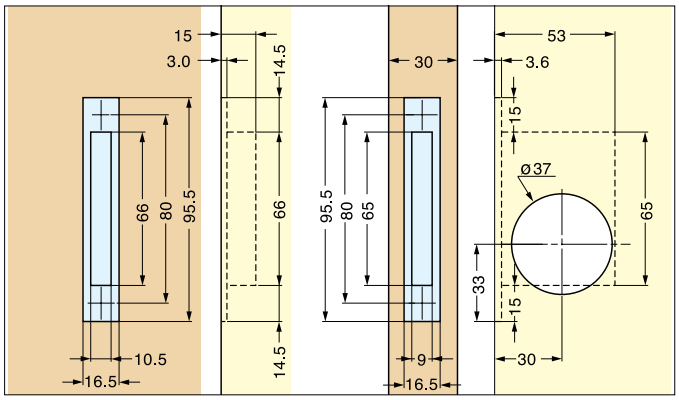
Request your **Cabinet Hardware** catalog today.

SLIDING DOOR LATCH HC-30R





- Sliding door latch for thick doors 1-1/8" ~ 2" (28 ~ 52 mm).
- Thumbturn on both sides for easy access.
- Slim design suitable for various applications.
- Non-Handed.
- For sliding doors only.
- Includes screws.

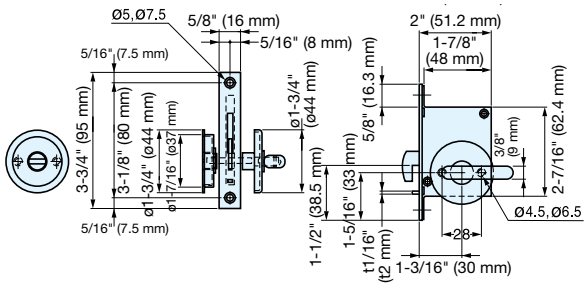


Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HC-30R	283	5	50

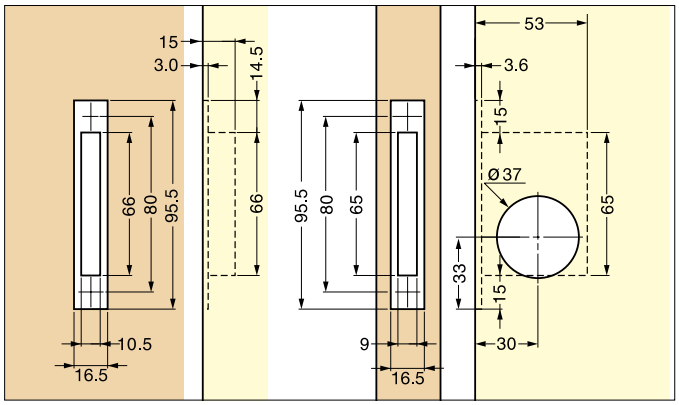
Material	Finish
304 Stainless Steel, Steel, Zinc Alloy	Satin

SLIDING DOOR LATCH HC-30L





- Sliding door latch with large lever for easy operation.
- Slim design suitable for various applications.
- Non-handed.
- For door thickness 1-1/8" ~ 1-7/8" (28 ~ 48 mm).
- For sliding doors only.



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HC-30L	309	5	50

Material	Finish
304 Stainless Steel, Brass, Zinc Alloy	Satin

Sliding Door Latches

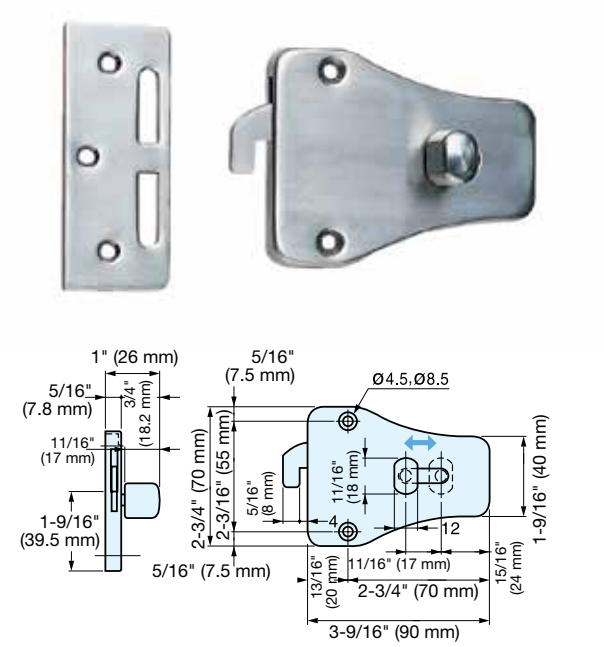
For interior sliding door applications



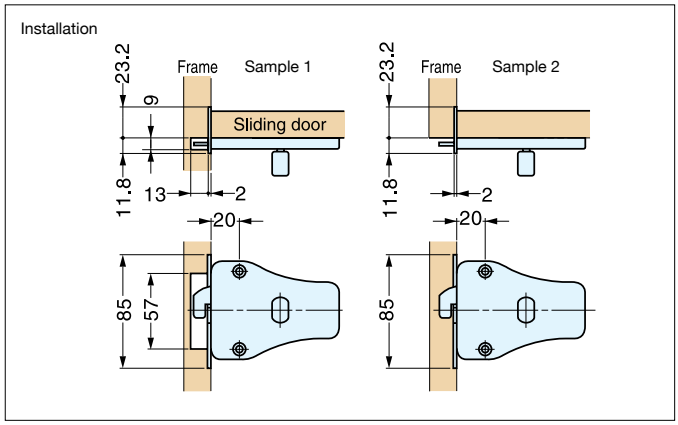
HC-3051 Series

(See P.78 for details)

SLIDING DOOR LATCH HC-70



- Surface mount type door latch.
- Slide knob to lock and unlock.
- Large knob for easy operation.
- Non-handed.
- Slim design suitable for various applications.

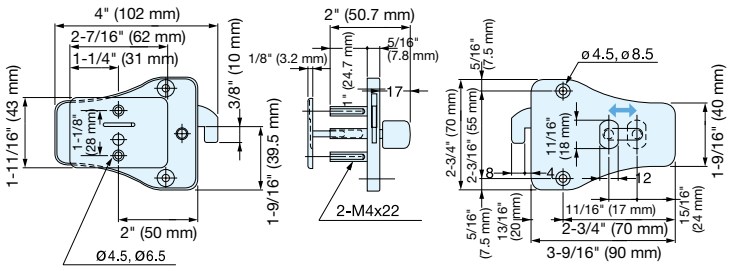


Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HC-70	197	5	50

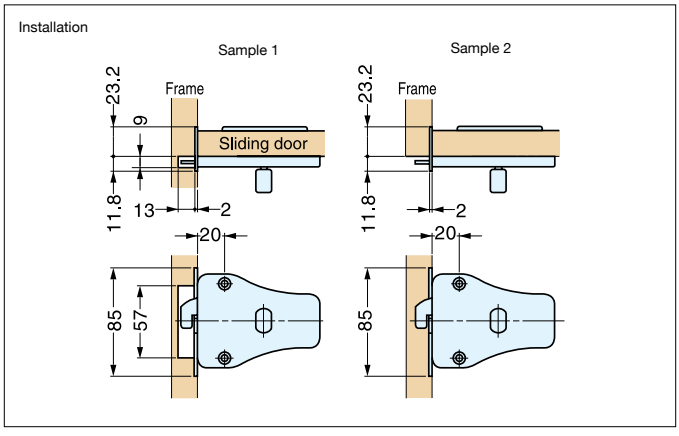
Material	Finish
304 Stainless Steel, Brass	Satin

SLIDING DOOR LATCH (WITH INDICATOR) HC-70H





- Sliding latch with indicator.
- Slide knob to lock and unlock, large knob for easy operation.
- Non-handed.
- Slim design suitable for various applications.
- For door thickness 1-1/32" ~ 1-9/16" (26 ~ 40 mm).

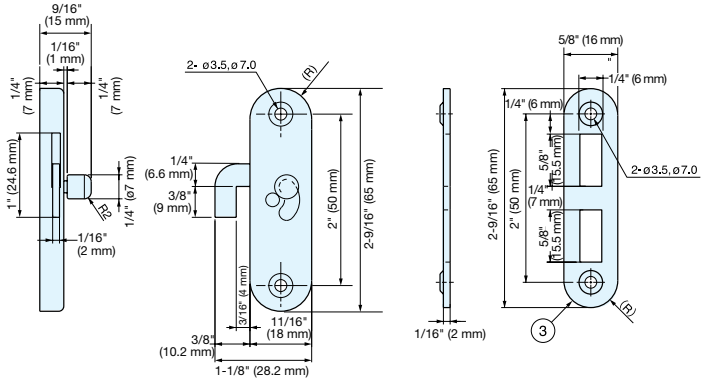


Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HC-70H	297	5	50

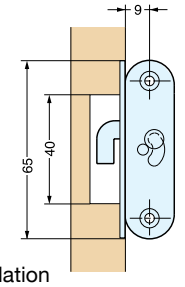
Material	Finish
304 Stainless Steel, Brass	Satin

SLIDING DOOR LATCH HC-65

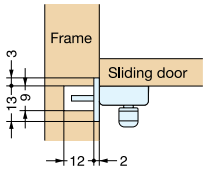




- Surface mount type door latch with noticeable indicator.
- Extra slim and compact design.
- Simply slide up and down the knob to lock/unlock.
- Non-handed.



Installation



*Left-handed shown.
This will be upside down in case of right-handed application.

Material	Finish
304 Stainless Steel, Brass	Satin

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HC-65	41	20	200

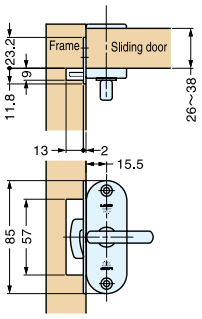
SLIDING DOOR LATCH HHC-85

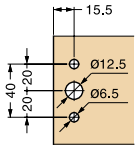




Opposite Side

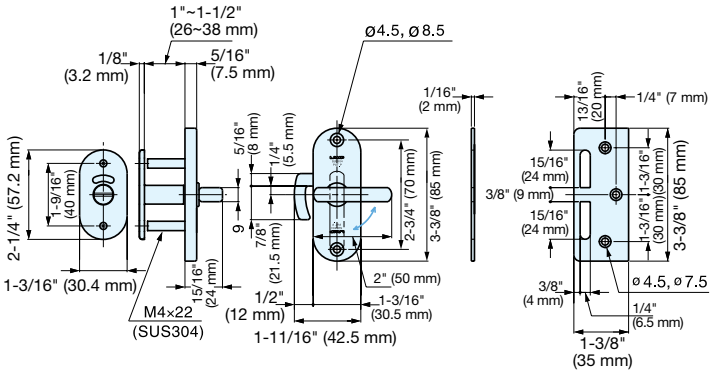
- Door latch with indicator, large lever for easy operation.
- Slim design suitable for various applications.
- Non-handed.
- For door thickness 1-1/32" ~ 1-1/2" (26 ~ 38 mm).





*Left-handed shown.
This will be upside down in case of right-handed application.

Installation



Material	Finish
304 Stainless Steel, Brass	Satin

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HHC-65	120	6	30

SLIDING DOOR LATCH

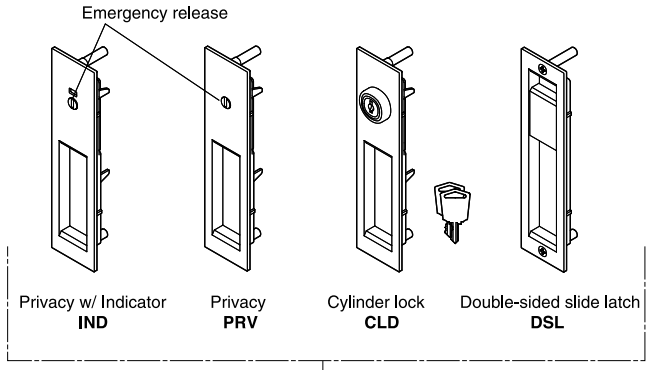
STEEL HC-3051 SERIES

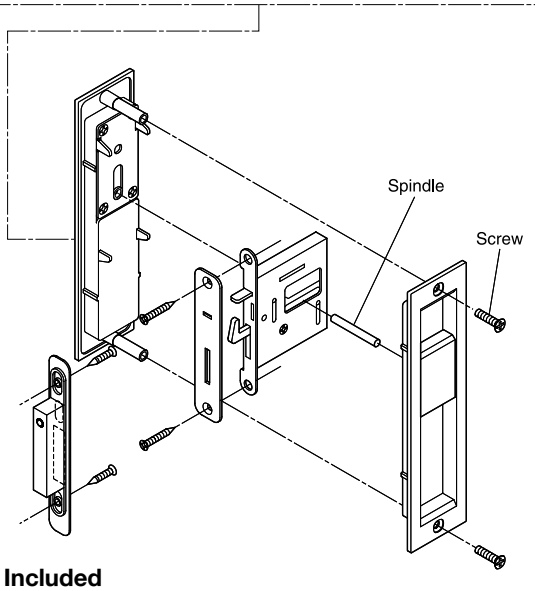


- Recessed latch handle for wooden sliding doors.
- 4 model types available.
- The backset can be installed at any position between 1-3/16" ~ 2" (30 mm ~ 51 mm) from the door edge.
- Applicable door thickness: 1-3/8" ~ 1-3/4" (35mm ~ 45 mm). 3 different lengths of spindles and 2 different lengths of screw are included. Initial setting is for 1-1/2" (38 mm) door.

■ Latch Body & Strikeplate







■ Latch Faceplates



Privacy (PRV) | Privacy w/ Indicator (IND) | Cylinder lock (CLD) | Double sided slide latch (DSL)

The opposite face of every model has a slide handle, as shown for the DSL model.

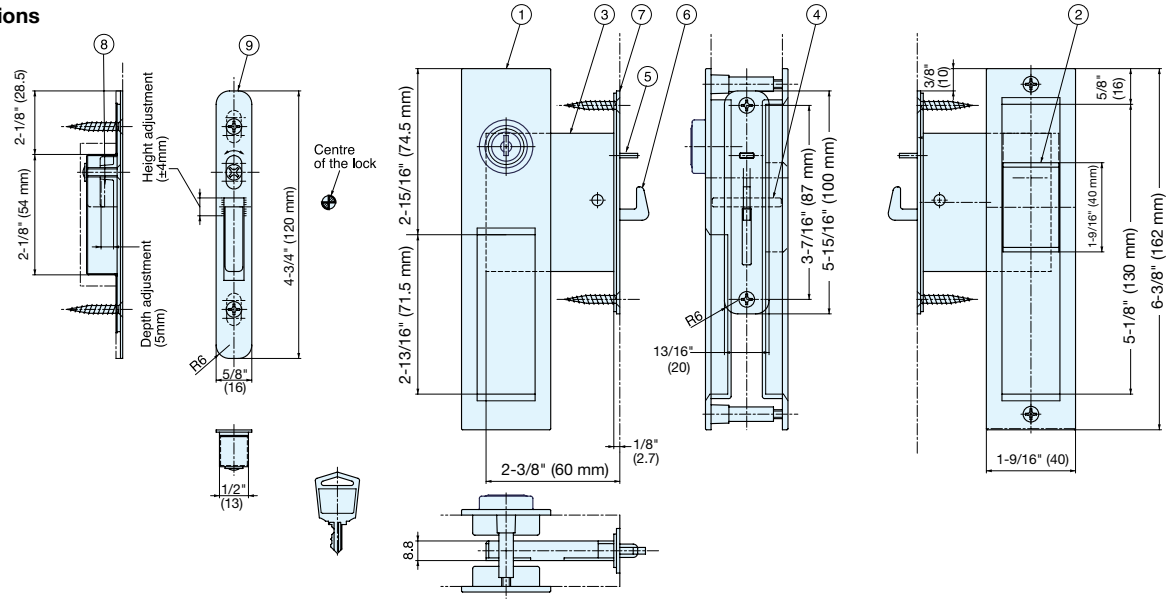
■ Parts Included

-Spindles Ø4×35, Ø4×39, Ø4×43
-Countersunk head tapping screw 3.5×25 (SUS) for strike & latch body
-Countersunk head screw M4×20, M4×25 (SUS) for latch face plates.

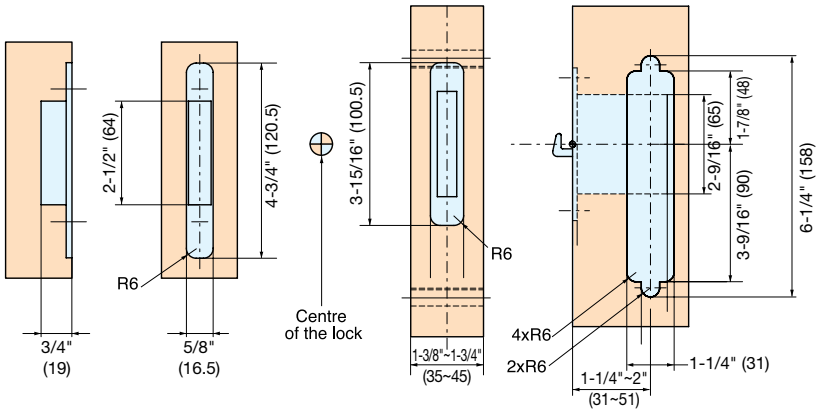
Item Name	Type	Weight (g)	Box (pcs)	Carton (pcs)
HC-3051-PRV-NI	Privacy	531	1	20
HC-3051-IND-NI	Privacy w/ Indicator	535		
HC-3051-CLD-NI	Cylinder lock	557		
HC-3051-DSL-NI	Double Sided Slide	511		

HC-3051-CLD-NI is shown

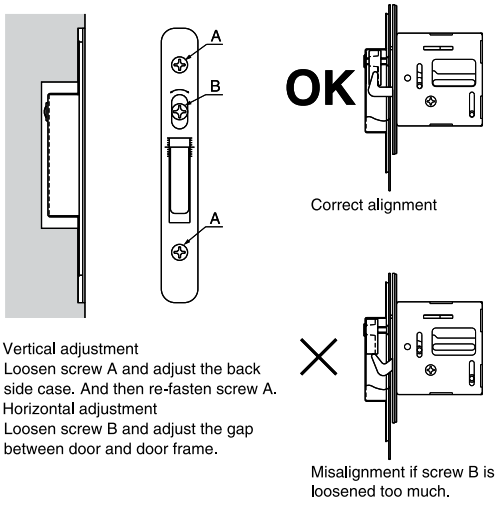
■ Dimensions



■ Cut Out Dimensions

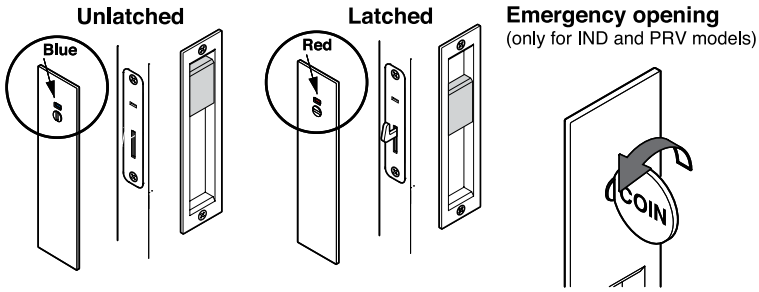


■ Adjustment to the strikeplate



- Vertical adjustment
  Loosen screw A and adjust the back side case. And then re-fasten screw A.
- Horizontal adjustment
  Loosen screw B and adjust the gap between door and door frame.

■ Checking the operation of latch



No.	Part Name	Material	Finish
1	Base	Zinc Alloy	Nickel
2	Knob		
3	Latch Body	Steel	Plain
4	Spindle		
5	Trigger	304 Stainless Steel	Polished
6	Bolt		Polished
7	Front Plate (Latch)		Satin
8	Strike	Steel	Plain
9	Front Plate (Strike)	304 Stainless Steel	Stain

OVERHEAD CONCEALED DOOR STOP & HOLDER

RoHS compliant

SAS-V



SAS-V600H-WGR

SAS-V450-WGR

- Adjustable opening angle between 0°-110°.
- Non-handed.
- **Stop Only Type** prevents door from overextending at your preferred angle.
- **Hold Open Type** holds door open at preferred angle and provides stop function.
- Works with 1-3/8", 1-3/4", and 2" thick doors.
- Works on 24", 28", 32", 36" and up to 43-5/16" wide doors.

White



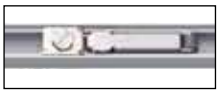
Black



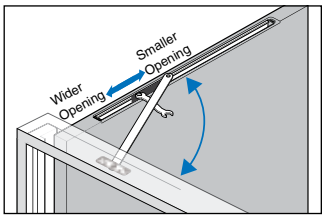
Warm Grey



Stop Only Type



Hold Open Type



Simply slide the parts to adjust the opening angle.

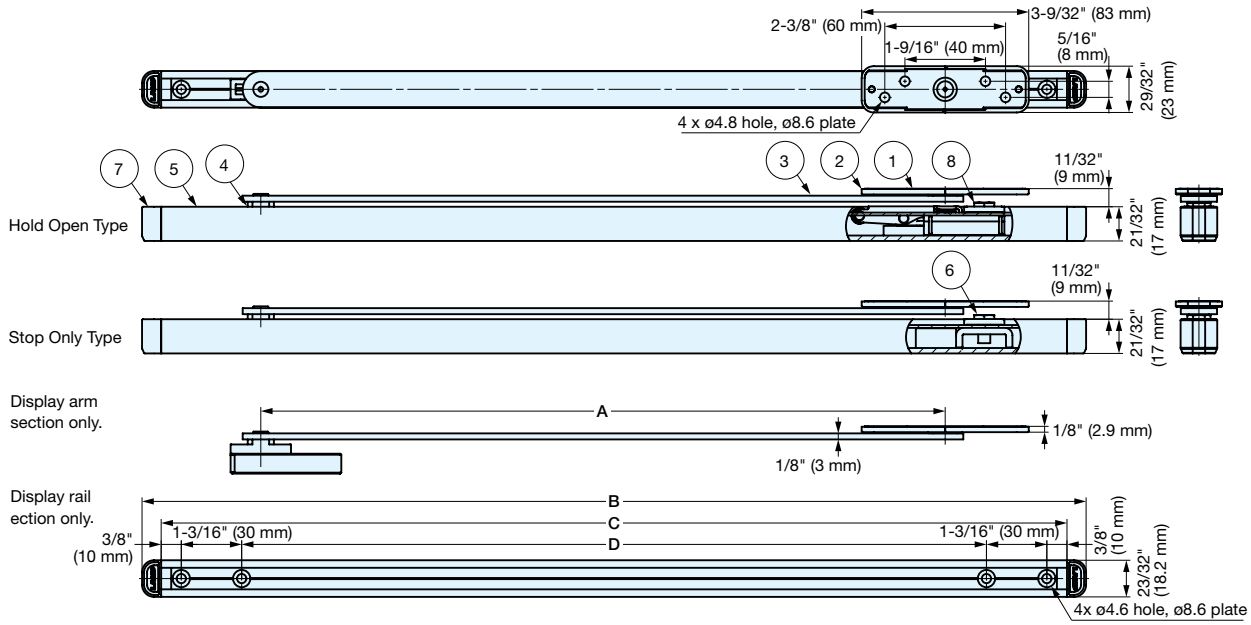


Screw cover for a clean design.





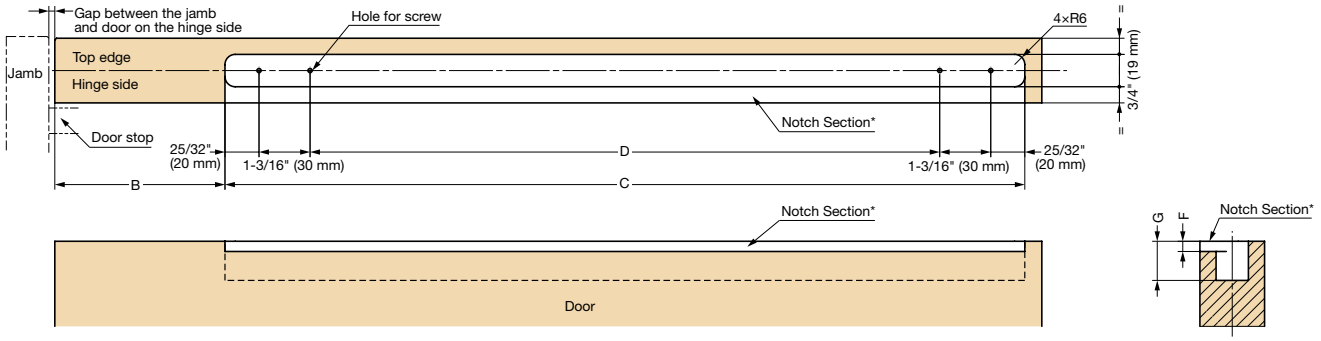
Combine with concealed hinges (HES Series) for a flush appearance.



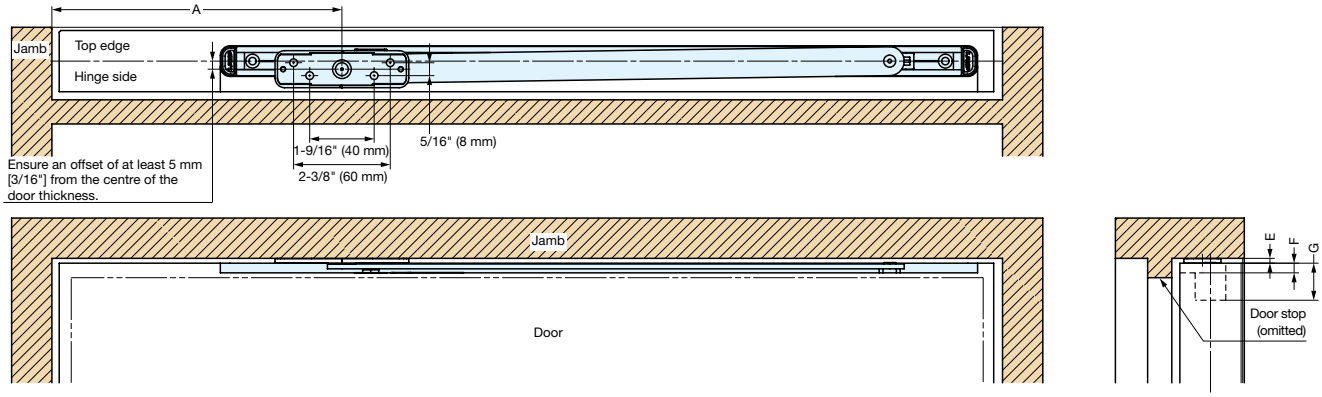
Item No.	A	B	C	D
SAS-V450 SAS-V450H	13-3/8" (340 mm)	18-15/32" (469 mm)	17-23/32" (450 mm)	14-9/16" (370 mm)
SAS-V600 SAS-V600H	20-3/32" (510 mm)	24-3/8" (619 mm)	23-5/8" (600 mm)	20-15/32" (520 mm)

No.	Part Name	Material	Finish/ Color
①	Strike Plate	304 Stainless Steel	Polished
②	Counter Plate Cover	ABS Resin	Black, White, Warm Grey
③	Arm	304 Stainless Steel	Black, White, Warm Grey
④	Slider	Polyacetal (POM)	Light Grey
⑤	Guide Rail	Aluminum Alloy	Anodized
⑥	Stop Parts	Steel (SPCC)/ Urethane Rubber (UR)	-
⑦	End Cap	ABS Resin	Light Grey
⑧	Hold Parts	Steel (SPCC)/ Urethane Rubber (UR)	-

Cut Out Dimensions



Mounting Diagram The diagram below illustrates the arm stopper only.



Item Name	Door Width	A	B	C	D
SAS-V450/SAS-V450H	24", 28", 32", 36" Standard Doors 22-27/32 ~ 36" (580 ~ 915 mm)	7-3/32" (180 mm)	3-15/16" (100 mm)	18-1/2" (470 mm)	14-9/16" (370 mm)
SAS-V600/SAS-V600H	32", 36" Standard Doors 31-1/2" ~ 43-5/16" (800 ~ 1100 mm)	9-7/16" (240 mm)	6-11/16" (170 mm)	24-13/32" (620 mm)	20-15/32" (520 mm)

Upper Gap Dimension (E)	1/8" (3 mm)	5/32" (4 mm)	3/16" (5 mm)	1/4" (6 mm)	9/32" (7 mm)	5/16" (8 mm)	11/32" (9 mm)
Notch Dimension (F)	1/4" (6 mm)	3/16" (5 mm)	5/32" (4 mm)	1/8" (3 mm)	3/32" (2 mm)	1/32" (1 mm)	0
Recessed Dimensions (G)	29/32" (23 mm)	7/8" (22 mm)	27/32" (21 mm)	25/32" (20 mm)	3/4" (19 mm)	23/32" (18 mm)	21/32" (17 mm)

For installation without notch sections, please refer to the table below where Notch Dimension (F) = 0
If using or planning to use our door dampers (LDD-S or LDD-V) please review installation instructions for cut out and mounting measurements

Hold Open Type

Item No.	Color	Door Thickness	Door Weight	Door Width	Max. Opening Angle	Carton (pcs)
SAS-V450H-WT	White	1-3/16" ~ 2" (30 ~ 50 mm)	Max. 110.2 lbs (50 kg)	22-27/32" ~ 36" (580 ~ 900)	110°	20
SAS-V450H-BL	Black					
SAS-V450H-WGR	Warm Grey					
SAS-V600H-WT	White			31-1/2" ~ 43-5/16" (800 ~ 1100)		
SAS-V600H-BL	Black					
SAS-V600H-WGR	Warm Grey					

Stop Only Type

Item No.	Color	Door Thickness	Door Weight	Door Width	Max. Opening Angle	Carton (pcs)
SAS-V450-WT	White	1-3/16" ~ 2" (30 ~ 50 mm)	Max. 110.2 lbs (50 kg)	22-27/32" ~ 36" (580 ~ 900)	110°	20
SAS-V450-BL	Black					
SAS-V450-WGR	Warm Grey					
SAS-V600-WT	White			31-1/2" ~ 43-5/16" (800 ~ 1100)		
SAS-V600-BL	Black					
SAS-V600-WGR	Warm Grey					

DOOR STOPERS

ZL-1801



- Supplied with stainless steel hex. bolt (M8 × 75), concrete anchor (for M8, ø14 mm hole), stainless steel carriage bolt (M8 × 50) and allen key.

Material	Finish
304 Stainless Steel, Rubber	Zwei L, Black

ZL-1801



- Supplied with stainless steel wood screws (4.1 × 32) and concrete anchor (for wood screw 4.1, ø6 mm hole).
- Available in 2 sizes:
  - **ZL-1802-72** L=2-53/64" (72 mm)
  - **ZL-1802-96** L=3-25/32" (96 mm)

Material	Finish
304 Stainless Steel, Rubber	Zwei L, Black

SMDH

- Can be wall or floor mounted.



Material	Finish
Polycarbonate	Brown, Ivory

KMDH

- Can be wall or floor mounted.



Material	Finish
Polycarbonate	Brown, Ivory

DSD-02

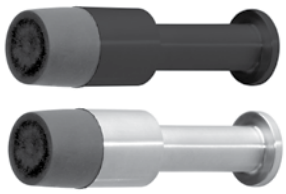
- Floor mount type.
- Available in 2 sizes.



Material	Finish
304 Stainless Steel Rubber	Satin, Black

DSD-03

- Wall mount type.
- Available in 3 sizes.



Material	Finish
304 Stainless Steel Rubber	Satin, Black

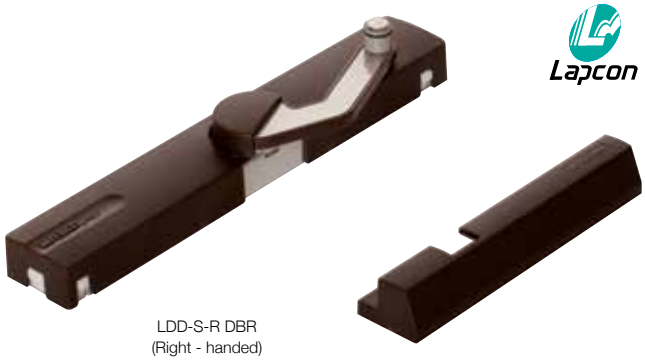
SMDH

- Features clear acrylic bumper.



Material	Finish
304 Stainless Steel, Soft Acrylic	Satin

DOOR DAMPER (SURFACE MOUNT) LDD-S



LDD-S-R DBR
(Right - handed)

- Door damper unit for interior, swinging doors.
- Grips door at final 15° and softly, self-closes doors more gently compared to other door closers.
- Surface mounting allows hardware to be retrofitted.
- Recommended Door Specifications:
  - Width: Max. 36" (914 mm)
  - Weight: 33 ~ 88 lbs (15 ~ 40 kg)
- Can be adjusted for door weight after installation. Damper function can also be switched off.
- Slim, unobtrusive design: damper unit is just 3/4" high, easily fitting most door frames.

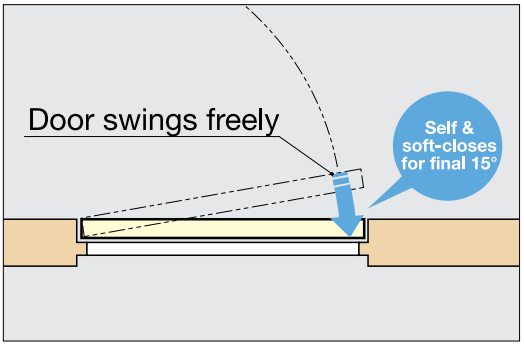


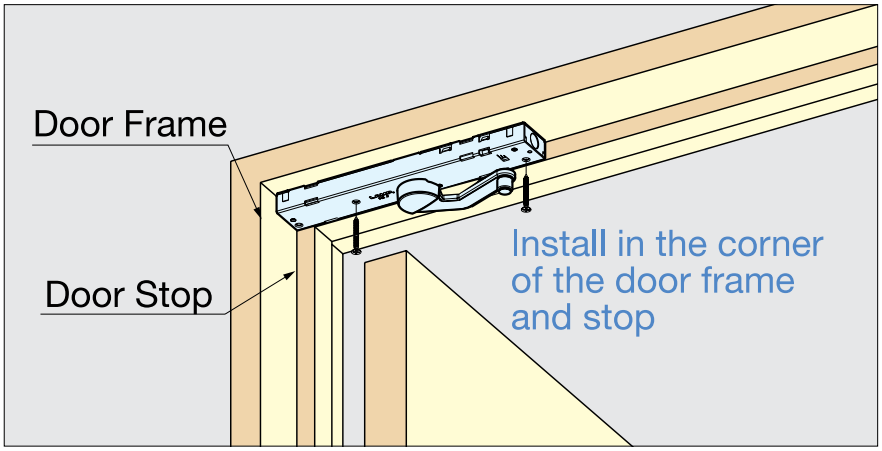


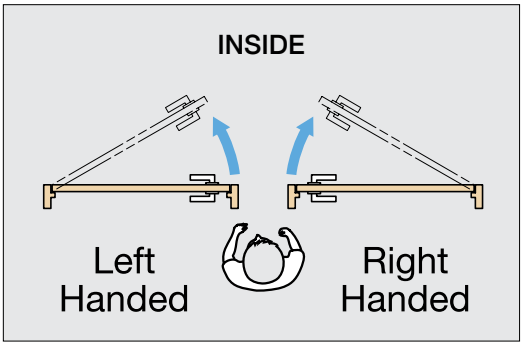
Available in the following colors:



White | Light Gray | Light Brown | Dark Brown







Component	Material	Finish/Color
Main Body	Steel, Zinc Alloy	Plain
Counter Plate		
Covers	ABS	White (WT), Light Grey (LGR), Light Brown (LBR), Dark Brown (DBR)

Item No.	Type	Door Weight	Door Width	Door Thickness	Box (pc)	Carton (pcs)
LDD-S-L	Left	33 ~ 88 lbs (15 ~ 40 kg)	Max. 36" (914 mm)	Will support any thickness	1	50
LDD-S-R	Right					

DOOR DAMPER (RECESSED TYPE)

RoHS compliant | 4×45 3.5×15 STEEL | LDD-V



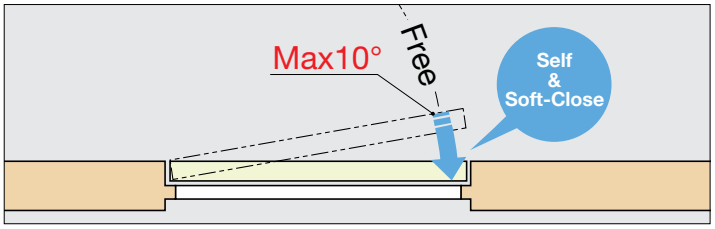


- Door damper unit for interior, swinging doors.
- Grips door at final 10° and softly, self-closes doors more gently compared to other door closers, putting less stress on the hinges.
- "Invisible" design minimizes visibility of hardware.
- Recommended door specifications:

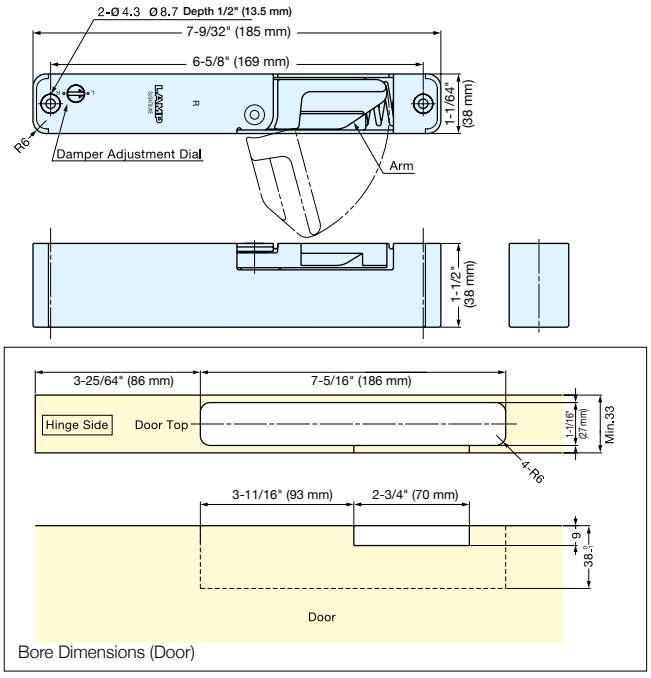
  Thickness: min. 1-5/16" (33 mm)
  Width: max. 36" (914 mm)
  Weight: 33 ~ 88 lbs (15 ~ 40 kg)
- Can be adjusted for door weight after installation. Counterplate position can be easily adjusted by removing cover and turning micro-adjustment screws.
- Includes screws and paper template for installation.

LDD-V-R is shown





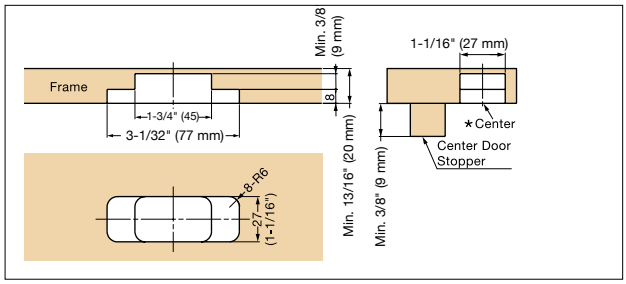
LDD-V-R is shown



Bore Dimensions (Door)







Bore Dimensions (Frame)

Part Name	Material	Finish/Color
Main Body	Steel/Polyacetal/PBT	Chromate/Grey
Counter Plate	Steel/Polyacetal	Nickel/Grey

Item No.	Type	Door Weight	Door Width	Door Thickness	Box (pc)	Carton (pcs)
LDD-V-R	Right	33 ~ 88 lbs (15 ~ 40 kg)	Max. 36" (914 mm)	Min. 1-19/64" (33 mm)	1	24
LDD-V-L	Left					

DOOR DAMPER (RECESSED TYPE) LDD-V100



LDD-V100-NI-L shown.



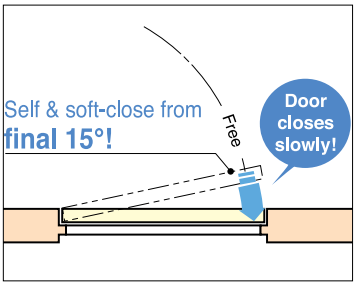
Counter plate cover (Nickel/Dark brown)

- Door damper unit for interior, swinging doors.
- Grips door at final 15° and softly, self-closes doors more gently compared to other door closers, putting less stress on the hinges.
- Heavy Duty: Holds up to 220 lbs doors (100 kg).
- "Invisible" design minimizes visibility of hardware.
- Recommended door specifications:

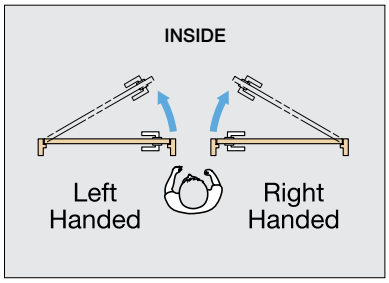
Thickness:	1-9/16" ~ 2-3/8"	(39 ~ 60 mm)
Width:	max. 35-7/16"	(900 mm)
Weight:	88 ~ 220 lbs	(40 ~ 100 kg)

- Can be adjusted for door weight after installation. Counterplate position can be easily adjusted.

Door Movement

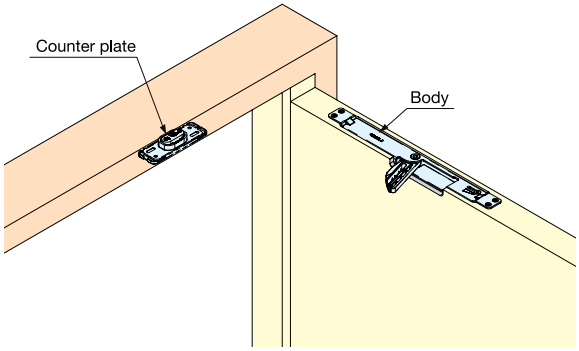


Door Hinge Side

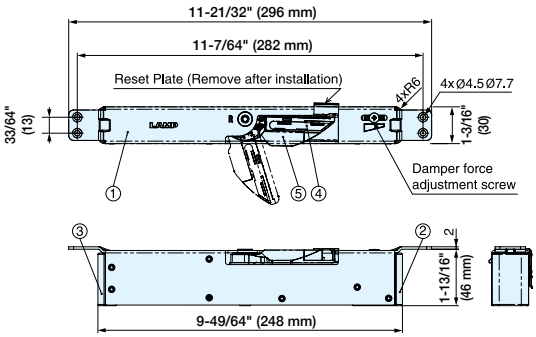


Installation

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



Body



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

Item No.	Finish/Color	Type	Door Weight	Door Width	Door Thickness	Box (pc)	Carton (pcs)
LDD-V100-DBR-R	Dark Brown	Right	88 lbs ~ 220 lbs (40 ~ 100 kg)	Max. 35-7/16" (900 mm)	1-9/16" ~ 2-3/8" (40 ~ 60 mm)	1	10
LDD-V100-DBR-L		Left					
LDD-V100-NI-R	Nickel	Right					
LDD-V100-NI-L		Left					

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