

LAMP® DIS-H SHUTTER SYSTEM Installation Manual (Recessed Mount)

Thank you for using our product. Before installation, please read this manual thoroughly to ensure correct installation. Please keep this manual at hand for future reference.

ABOUT THE PRODUCT

- This product is a shutter system for cabinets.
- 20 mm of bending radius adds a sleek look of cabinets.

FOR YOUR SAFETY AND CORRECT INSTALLATION

Meaning of symbols

 Warning Caution	 Prohibited	 Required
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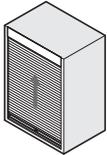
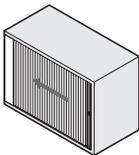
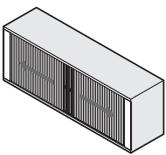
Caution If not followed, injury or damage may result.

- ❗ When cutting the slats, remove burrs on the edges.
- ❗ Remove any dirt or wooden chips from the guide tracks before the installation of the shutter profiles.
- ⊘ Do not lean on the shutter profiles. It may cause the slats to break.



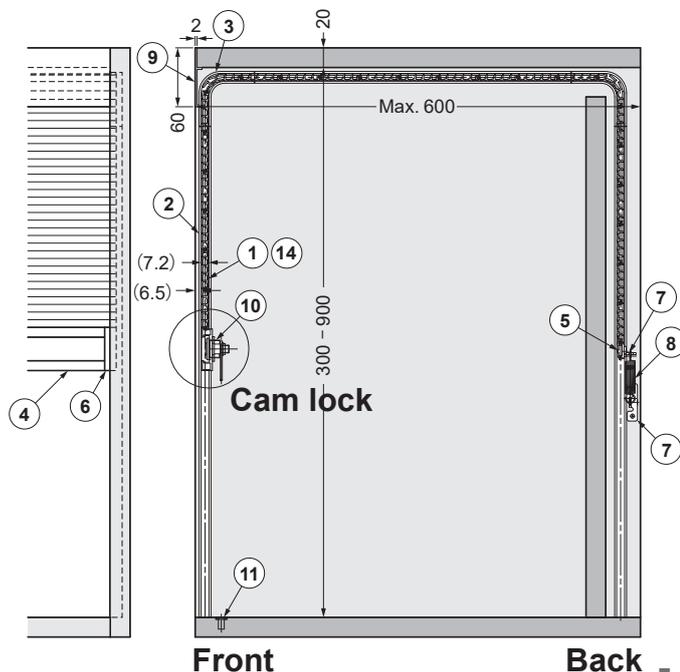
TYPES OF CABINET / DIMENSIONS

(Make the cabinet disassemblable for maintenance.)

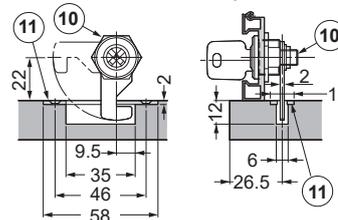
	Vertical	Horizontal	Horizontal - Double opening
			
Width	300 - 900 mm	300 - 900 mm	600 - 1800 mm
Height	300 - 900 mm	100 - 1188 mm	100 - 1188 mm
Depth	Min. 200 mm	Min. 200 mm	Min. 200 mm

INSTALLATION DRAWING (Vertical type when using front cover⑨.)

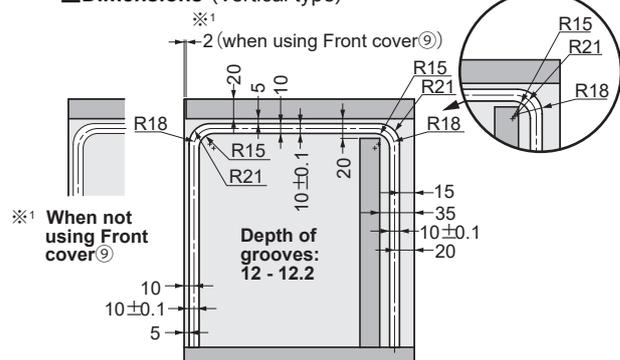
For horizontal type, use the side view of vertical type as the plan view.



Cam lock F500⑩ (Option)



Dimensions (Vertical type)



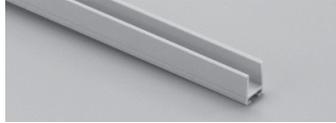
SCREWS NEEDED FOR ASSEMBLY

	Metal cabinet		Wooden cabinet		Both
	Vertical (for spring plate)	Horizontal	Vertical (for spring plate)	Horizontal	Vertical (for spring plate)
Pan head screw M4 x 10	-	-	-	-	2
Bind head tapping screw $\phi 4$	-	-	4	-	-
Pan head screw M4	4	-	-	-	-
Countersunk head wood screw 2.7×13	2	2	2	2	-

THE OTHER ITEMS BE PREPARED

- Tape (Part No.D15-020)
- Grease (Part No.D15-025)

COMPONENT PARTS

① Slat DIS-001-1200 1200 mm 	② Recessed rail DIS-002-2000 2000 mm 	③ Guiding rail (90°) DIS-003-90 	④ Front end-slat DIS-007-1200 1200 mm 
⑤ Back end-slat *1 DIS-008-1200 2000 mm 	⑥ End slider DIS-009 	⑦ Spring plate DIS-012 (Vertical type only) 	⑧ Balance spring (Build to Order) (Vertical type only) 

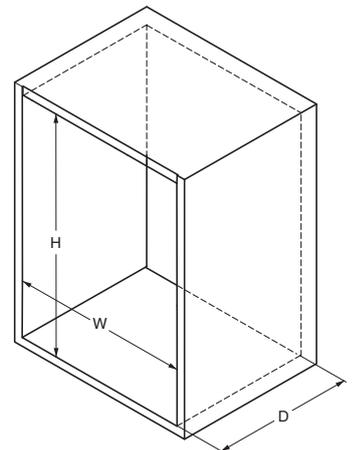
OPTIONAL PARTS

⑨ Front cover DIS-006-1200 1200 mm 	⑩ Cam lock DIS-022 DIS-010 	⑪ Counter plate DIS-011 	⑫ Center stopper (recessed) DIS-016 (Horizontal - Double doors only) 
⑬ Counter plate (for double opening) DIS-021 (Horizontal - Double doors only) 	⑭ Middle slat DIS-019 1198 mm 	⑮ Handhold slat DIS-023 	

PROCESS DIMENSIONS FOR SLATS

Parts name	Vertical		Horizontal		Horizontal - Double opening	
	Quantity(rounded)	length	Quantity(rounded up)	length	Quantity(rounded up)	length
Slat	W<586 (H+D-43)/40 W \geq 586 (H+D-43)/48	W+12	H<586 W/40 H \geq 586 W/48	H+12	H<586 {(W/2)/40} x 2 H \geq 586 W/48 x 2	H+12
Recessed rail (long)	4	H-60	4	W-60	2 (Front) 2 (Front) 2 (Rear)	(W/2)-60 (W/2)-61.5*2 W-120
Recessed rail (short)	2	H-130	2	W-130	4	(W/2)-130
Front end-slat	2	W-10	1	H-10	2	H-10
Back end-slat	1	W+10	Not required			
OPTIONS						
Front cover	1 (W<586 only)	W	1 (H<586 only)	H	2 (H<586 only)	H
Middle slat	(H+D-43)/48 (W \geq 586 only)	W+10	W/48 (H \geq 586 only)	H+10	{(W/2)/48} x 2 (H \geq 586 only)	H+10
Handhold slat	1	W+10	1	H+10	2	H+10

*2 For Horizontal type with double doors, one side of Guiding rail is cut 1.5 mm shorter to insert Center stopper.



INSTALLATION PROCEDURE

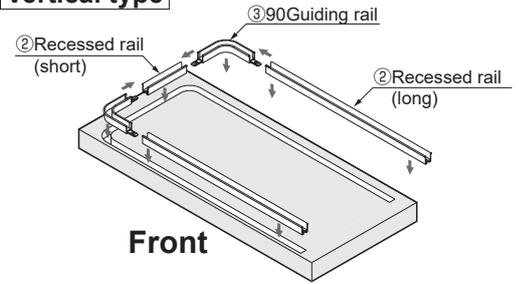
1 Assembling Recessed rail

Connect recessed rail and guiding rail (90°) and put into the groove processed on the side board.

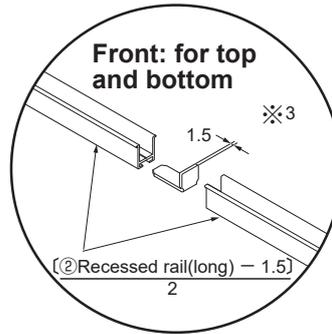
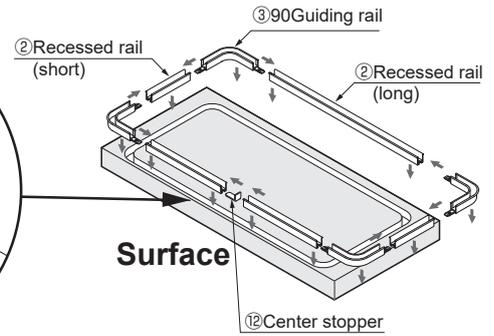
For horizontal type with double doors, insert center stopper to the end of Recessed rail (long) at the front side. (※3)

Caution
 Remove burr or any dirt that interfere with the movement of slat in the groove.

Vertical type

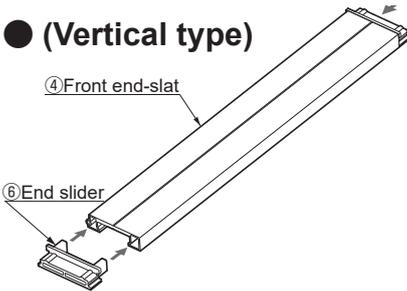


Horizontal type (double opening)



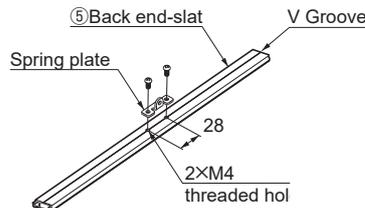
2 Processing and Assembling End-slat

● (Vertical type)

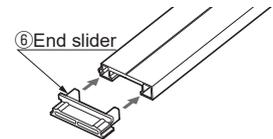


Pay attention to the direction of parts.

● (Horizontal type)



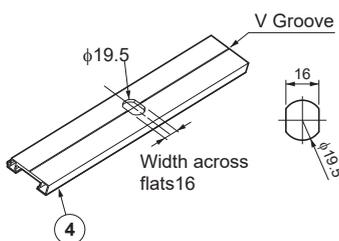
Fix spring plate on the center of back end-slat with screws.
 Make threaded holes on v-groove.



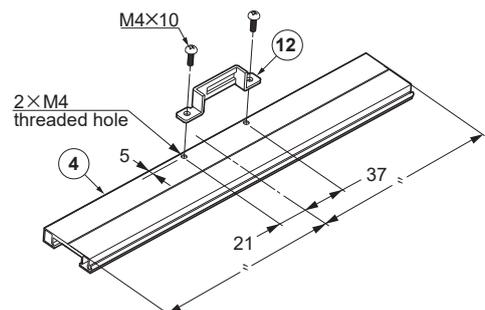
Insert the end slider into the end slat without leaving a gap.
 Refer to the figure and pay attention to the direction.

● Using an optional part Cam lock (Both vertical and horizontal types)

(Counter plate for horizontal type double door)



Make a hole with v-groove as the center.



Pay attention to the direction of the end-slat and the positional relation between the end-slat and counter plate.

3 Assembling slat (both vertical and horizontal types)

⚠ Apply versatile elastic adhesive and tape to assemble the slats.

Apply adhesive Every 100-150 mm just for preventing lateral displacement. Proceed to the next step after the adhesive hardens completely.

When using a handhold slat, be sure to insert between slats①, do not connect with the middle slat⑭.

The length of the handhold slat⑮ should be 2 mm shorter than the slat①.

Each end needs to be 1 mm retracted.

Combine middle slat between slats for vertical type with width 600 mm or more (Horizontal type with height 600 mm or more)

72 hours after applying the adhesive, apply tape on the backside of the slats to prevent lateral displacement.

The length of middle slat⑭ should be 2 mm shorter than slat①.

Each end needs to be 1 mm retracted. (※4)

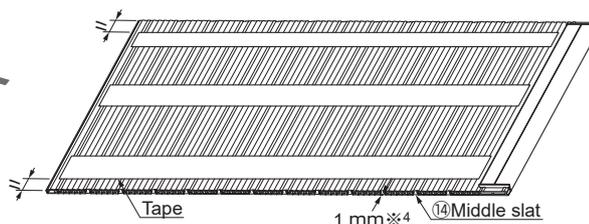
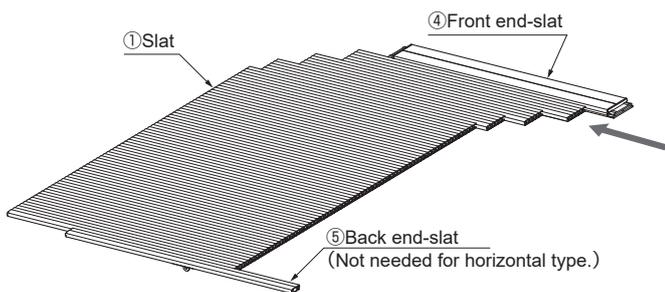
Precautions when applying tapes Cleaning Sticking Pressing



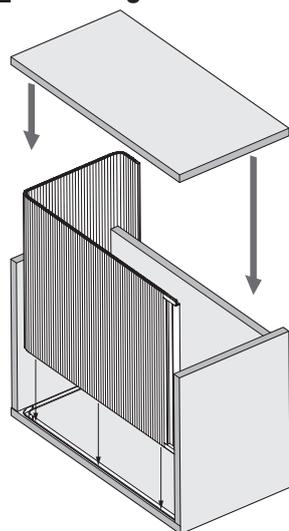
Remove water, dust and oil

Press it little by little while making it adhere to the unevenness.

Use a cloth, approx. 50N/cm²

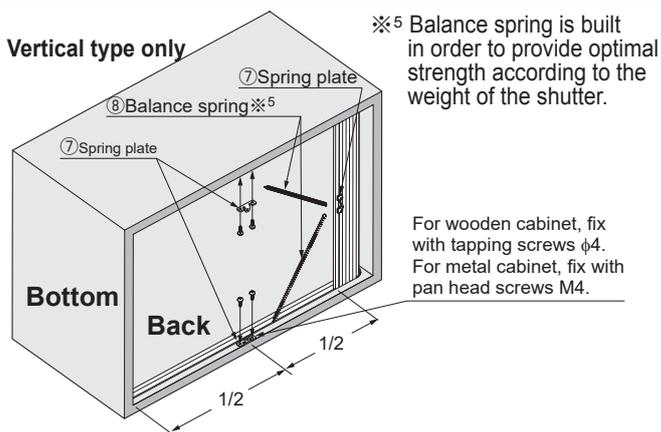


4 Installing into a cabinet (both vertical and horizontal types)



Apply specified grease inside of groove on recessed rail and guiding rail for sliding slat. Smooth movement can be maintained by periodically applying grease.

Vertical type only



※5 Balance spring is built in order to provide optimal strength according to the weight of the shutter.

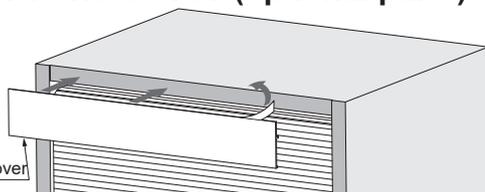
For wooden cabinet, fix with tapping screws φ4.
For metal cabinet, fix with pan head screws M4.

Attach the spring plate when the shutter is fully opened. Viewed from the front as shown in the figure above, attach the spring plate half way between the end of the back side of the slat and the bottom board. After that hook the two Balance springs in a v shape as shown in the figure.

5 Installing Front cover (optional parts)

Vertical type with width 600 mm or more
(Horizontal type with height 600 mm or more)

⑨ Front cover



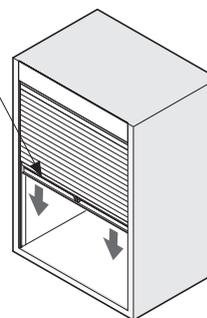
Peel release paper from double-sided tape on front cover, attach to the end of surface of top board.

⚠ Caution

If the width or the height exceed 600 mm, the slats may warp and interfere with the front cover.

Precautions for use

④ Front end-slat or ⑮ Handhold slat



When closing, hold both ends of the slat. If you hold the slat by a hand, the slats will lean and the movement will not be smooth.

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