

Thank you for selecting our product. Before starting installation, please read this manual thoroughly to ensure correct installation.

Please keep this manual at hand for future reference.



■ ABOUT THIS PRODUCT

- This product is a shutter system for cabinets.
- Surface mount type which is easy to install.

⊘	This symbol denotes prohibited actions.
!	This symbol denotes what must be done.



Caution If this cautions are not followed, it may result in injury or damage.

- ! 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 breakage of the slats.

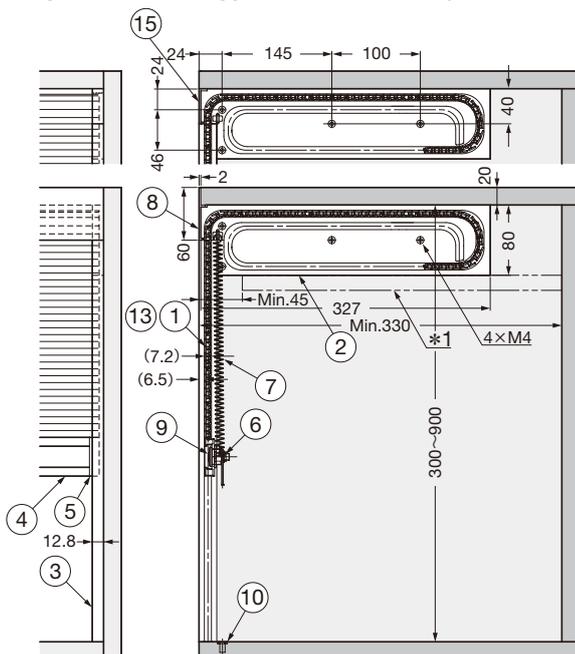
■ TYPES OF CABINET / DIMENSIONS

Design the cabinet to allow disassembly, so that the slats can be replaced if broken.

	Vertical	Horizontal	Horizontal - Double opening
Width	300~1200mm	300~900mm	600~1800mm
Height	300~900mm	100~1200mm	100~1200mm
Depth	Min. 330mm	Min. 330mm	Min. 330mm

■ INSTALLATION DRAWING

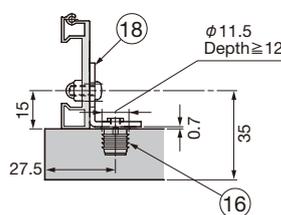
(Example of Vertical type with front cover)



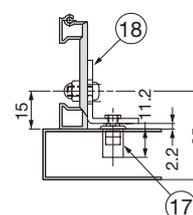
< Optional part >

Magnet catch

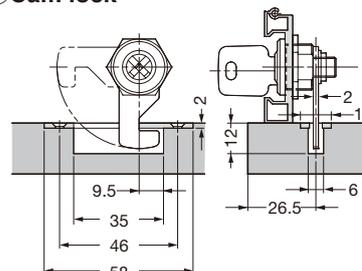
(Wooden cabinet)



(Metal cabinet)



⑨ Cam lock



*1 When storing unstable goods in horizontal cabinet, it is recommended to place a middle board to avoid interference between the slats and the stored goods.

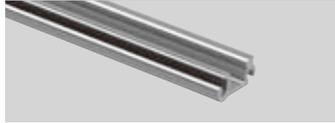
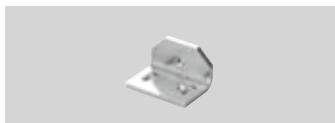
■ SCREWS NEEDED FOR ASSEMBLY

	Metal cabinet		Wodden cabinet		Both
	Vertical, Horizontal	Horizontal (Double opening)	Vertical, Horizontal	Horizontal (Double opening)	Vertical (for spring plate)
Cross recessed pan head screw M4 x 10	8	16	-	-	2
Cross recessed bind head tapping screw $\phi 4$	-	-	8	16	-

■ COMPONENT PARTS

① Slat DIS-001-1200 1200mm 	② Storage guide DIS-004R (Right) DIS-004L (Left) 	③ Guiding rail (surface mount) DIS-05-860 860mm 	④ End-slat DIS-007-1200 1200mm 
⑤ End-slider DIS-009 	⑥ Spring plate (vertical type only) DIS-012 	⑦ Balance spring (vertical type only) Build to Order 	

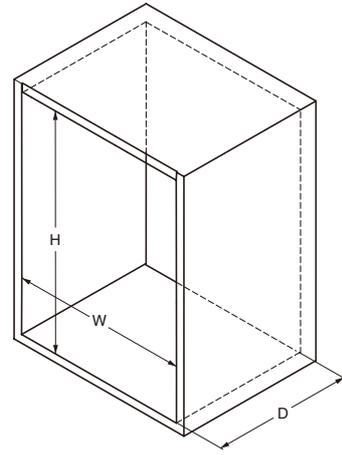
■ OPTIONAL PARTS

⑧ Front cover DIS-006-1200 1200mm 	⑨ Cam lock DIS-022 DIS-010 	⑩ Counter plate DIS-011 	⑪ Center stopper (surface mount) (for double opening) DIS-017 
⑫ Counter plate (for double opening) DIS-021 	⑬ Middle slat DIS-019 1198mm 	⑭ Handhold slat DIS-023 1198mm 	⑮ Storage cover (surface mount) DIS-024 
⑯ Magnet catch (for wooden vertical cabinet, $W \leq 600$) IND10-WT 	⑰ Magnet catch (for metal vertical cabinet, $W \leq 600$) MC-FP5W 	⑱ Middle bracket (for vertical cabinet, $W \leq 600$) DIS-024 	

■PROCESS DIMENSIONS FOR SLATS

Parts name	Vertical		Horizontal		Horizontal - Double opening	
	Quantity (rounded up)	length	Quantity (rounded up)	length	Quantity (rounded up)	length
Slat	W < 600 H/40 W ≥ 600 H/48	W-10	H < 600 W/40 H ≥ 600 W/48	H-10	H < 600 {(W/2)/40} × 2 H ≥ 600 {(W/2)/48} × 2	H-10
Storage guide	2	H-40	2	W-40	2 2	(W/2)-40 (W/2)-41.5 *2
End-slat	1	W-30	1	H-30	2	H-30
OPTIONS						
Front cover	1 (W < 600 only)	W	1 (H < 600 only)	H	2 (H < 600 only)	H
Middle slat	H/48 (W ≥ 600 only)	W-12	W/48 (H ≥ 600 only)	H-12	{(W/2)/48} × 2 (H ≥ 600 only)	H-12
Handhold slat	1	W-12	1	H-12	2	H-12

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

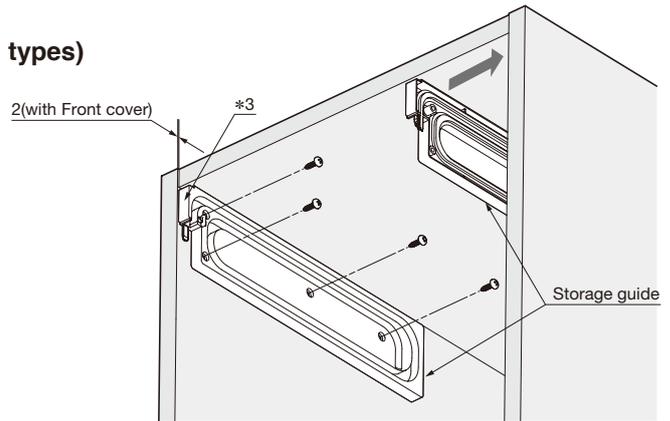


■INSTALLATION PROCEDURE

1. Installing Storage guide (both vertical and horizontal types)

Hold Storage guide tightly against the rear face of top board and fix with screws.

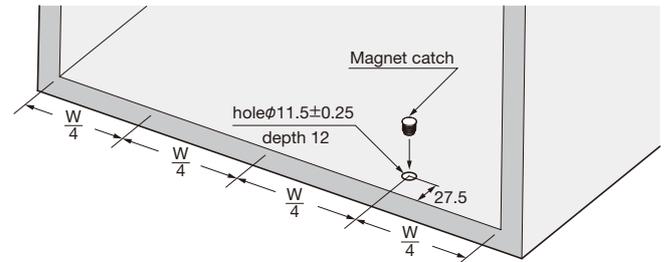
When using Front cover, recess the side of *3 with 2mm.



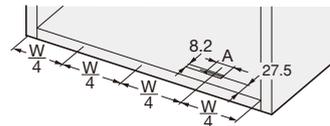
2. Fixing Magnet catch (vertical type only)

When the width is 600mm or less, use Magnet catch and Middle bracket.

For wooden cabinet, drill a hole at a position of a quarter of the opening width.



For metal cabinet, drill a hole at a position of a quarter of the opening width, as shown in the right figure.

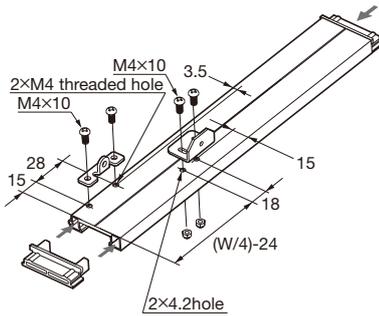


Thickness	A ^{+0.1} ₀
0.8	34.1
1.0	34.1
1.2	34.5
1.4	34.5
1.6	35.0
1.8	35.5
2.0	36.5

3. Processing and Assembling End-slat (both vertical and horizontal types)

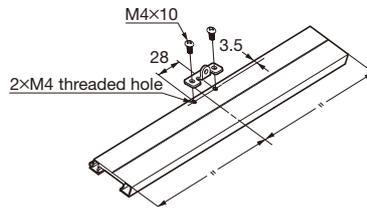
(Vertical type)

The width is 600mm or less.



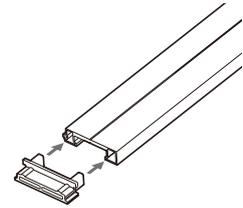
Make threaded holes to fix Spring plate to End-slat.

The width is 600mm or more.



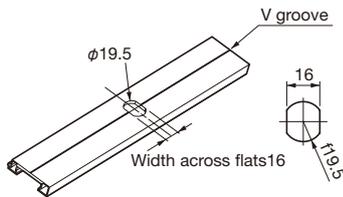
When the width is 600mm or more, make threaded holes in the middle of End-slat to fix Spring plate.

(Horizontal type)



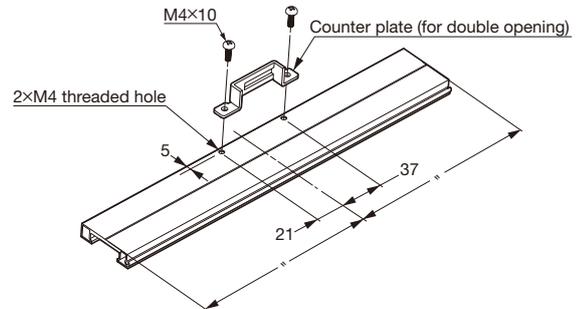
Insert End-slider into End-slat without leaving a gap. Refer to the figure and pay attention to the direction.

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



Make a hole with V-groove as a center.

(Horizontal Double Door type)



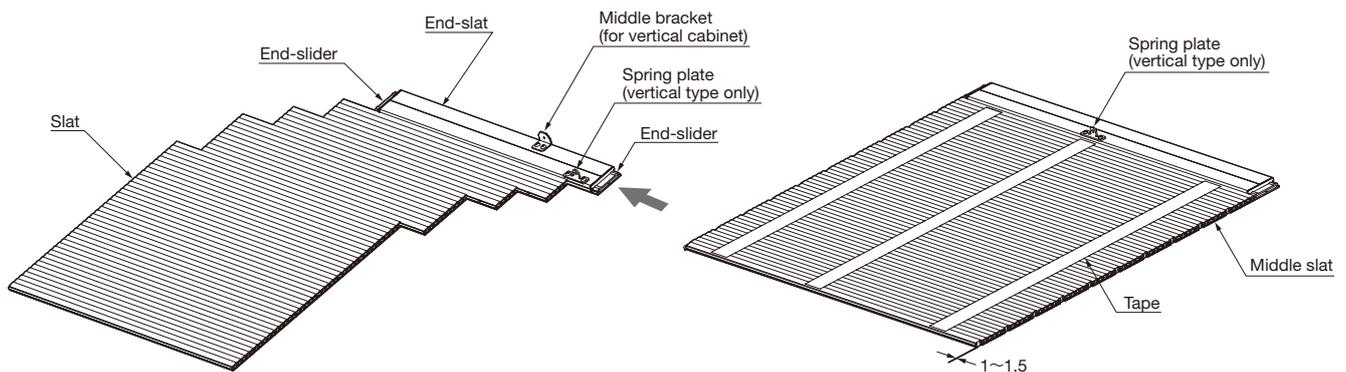
⚠ Pay attention to the direction of End-slat and the positional relation between End-slat and Counter Plate.

4. Assembling slat (both vertical and horizontal types)

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

When using Handhold slat, be sure to insert between slats, do not connect with Middle slat.

After connecting slats, align both side ends of slats and apply tapes on the backside to prevent lateral displacement.

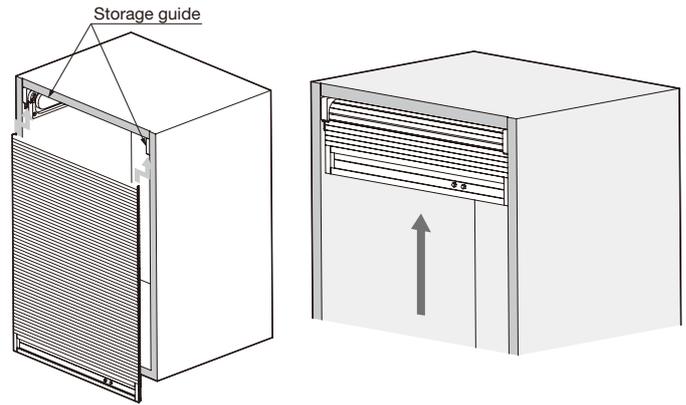


5. Installing into a cabinet (both vertical and horizontal types)

Slide assembled slat in the Storage guide.

After that, roll up slat to the top.

It is recommended to apply dry lubrication spray inside of groove on storage guide and Guiding rail for sliding slat. Smooth movement can be maintained by periodically applying a lubricant.

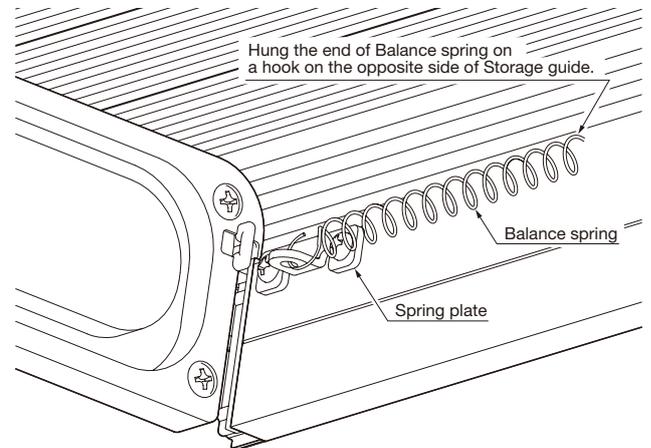


6. Attaching Balance spring (vertical type only)

Hook Balance spring to Spring plate.

Use one spring for the width 600mm or less, two springs for the width 600mm or more.

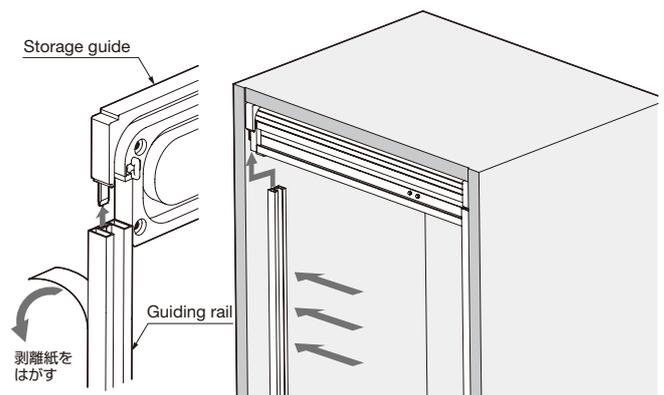
⚠ Balance spring is built to order according to the size of shatter.



7. Attaching Guiding rail (both vertical and horizontal types)

Peel release paper from double-sided tape on Guiding rail and attach to the side board while connecting with the Storage guide.

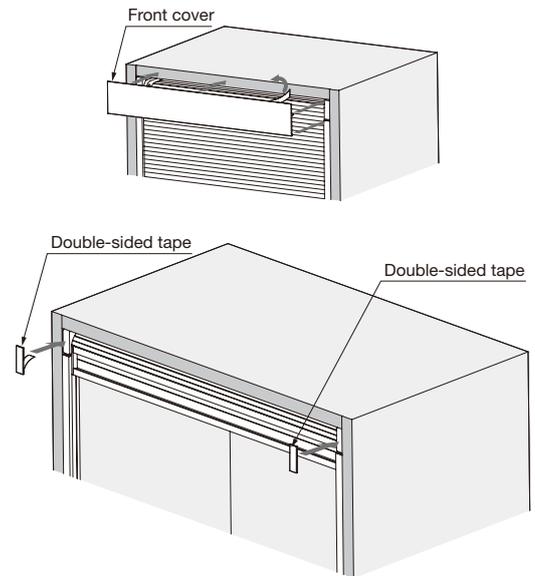
For horizontal type with double doors, divide Guiding rail into two parts, and mount Center stopper at the center position. Consequently, cut a divided Guiding rail 1.5mm shorter than the other.



8. Installing Front cover, Storage cover (optional parts)

Peel release paper from double-sided tape on Front cover, put to the end of surface of top board paying attention to pawls for fitting to Storage guide.

Peel off double-sided tapes attached to Storage cover and put two of them as shown in the right figure.



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