

Thank you for purchasing our product.  
For proper installation, read manual thoroughly before beginning.  
Avoid incorrect installation which may cause injuries.  
After reading this manual, keep it for future reference.

### IMPORTANT



For proper installation, thoroughly read the "IMPORTANT" and "INSTALLATION INSTRUCTIONS" in this manual before beginning.

### Please follow the instructions carefully for proper use.

For your safety, be sure to read and observe them.

The pictographs shown below are used as marks indicating safety precautions for proper and safe handling of the product and prevention of accidents caused by incorrect handling.



### WARNING

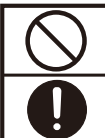
Indicates a matter which, if neglected, may cause a loss of life or serious injuries.



### CAUTION

Indicates a matter which, if neglected, may cause injuries or property damage.

In addition, the following pictographs are used to indicate the type of warnings (cautions).



Indicates an act which you must not do. It is followed by specific content of the act.



Indicates an instruction which you must follow. It is followed by specific content of the instruction.



If you need to install this product, ask the dealer where you purchased our product or technicians who are skilled in the installation work of the product.

Improper installation may lead to a fall of the product during usage, causing extreme danger.



When producing the frame, consider the weight of the door and the impact generated by opening and closing of the door. Insufficient strength of the frame may lead to excessive deterioration in movement of the door, as well as a fall of the door, causing extreme danger.



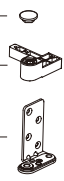












### ATTENTION

- This product is the pivot-type hinged door. Before installing the pivot hinge, check for sufficient strength of the surface on which the pivot-hinge is to be installed.
- Work on a clean floor to prevent any flaws or scratches on the aluminum frame flat surface.
- After unpacking the product, check for damages on the parts.
- DO NOT modify the product. Otherwise, its strength may be decreased.
- Ask technicians who are skilled in the installation work of the product for assembly or installation of the product.
- When working on the product, be sure to observe the instructions in this manual.

# INSTALLATION INSTRUCTIONS

Door width	Without inner crosspiece: 900 mm max.
Door height	Without inner crosspiece: 2200 mm max.
Glass thickness	5 mm, 6 mm
Door weight	40 kg max. (per door)

## 1 Parts list

Components (per door)	Standard size parts (specify the number of parts required)	Lever handle parts
 <p>①-1 Hinge cap: 2 pcs. ①-2 Hinge: 1 pc. upper, 1 pc. lower ② Bracket: 1 pc. upper, 1 pc. lower</p>	 <p>⑧ Vertical frame: 2500 mm AF-25-W01</p>  <p>⑨ Horizontal frame: 2000 mm AF-25-W02</p>  <p>⑩ Inner frame: 2000 mm AF-25-W03</p>  <p>⑪ Glass packing AF-25-P02 (2500mm) for 5 mm AF-25-P15 (3000mm) for 6 mm</p>  <p>⑫ Inner crosspiece packing AF-25-P03 (2500mm) for 5 mm AF-25-P16 (2500mm) for 6 mm</p>  <p>⑬ Blind cover: 2500 mm AF-25-P01</p>	 <p>⑭ Lever handle: 1 set As for the shape and key type, ask our sales staff.</p>  <p>⑮ Lever handle mounting tool: 1 pc.</p>  <p>⑯ Lever handle fixing bolt: 1 pc.</p>  <p>⑰ Latch bolt: 1 pc.</p>  <p>⑱ Strike: 1 set 4 x 30 Cross-recessed self-tapping screw 658206</p>
 <p>③ Case front: 1 pc. ④ Case back: 1 pc. ⑤ Case cover: 2 pcs. ⑥ Packing: 4 pcs. ⑦ Corner parts: 2 pcs. AF-25-P04</p>	<p><b>CAUTION</b> Door assembly screws are not supplied.</p>	<p><b>Screw</b></p> <p>⑲ M5 x 12 Hexagon socket head sunk cap screw: 4 pcs. (attached to the handle case)</p> <p>⑳ Hexagon bolt: 1 pc. (attached to the hinge)</p> <p>㉑ flat washer: 1 pc. (attached to the hinge)</p> <p><b>Door assembly screw (not supplied)</b></p> <p>㉒ M6 x 30 Hexagon socket head cap screw: 8 pcs.</p> <p>㉓ M4 x 30 Hexagon socket head cap screw: Q'ty of inner crosspiece x 2</p> <p>㉔ M4 x 25 Hexagon socket head sunk cap screw: 12 pcs.</p> <p>㉕ Nominal 4 or 5 cross-recessed self-tapping screw L of 30 mm or more is recommended: 8 pcs.</p>

## 2 Door size

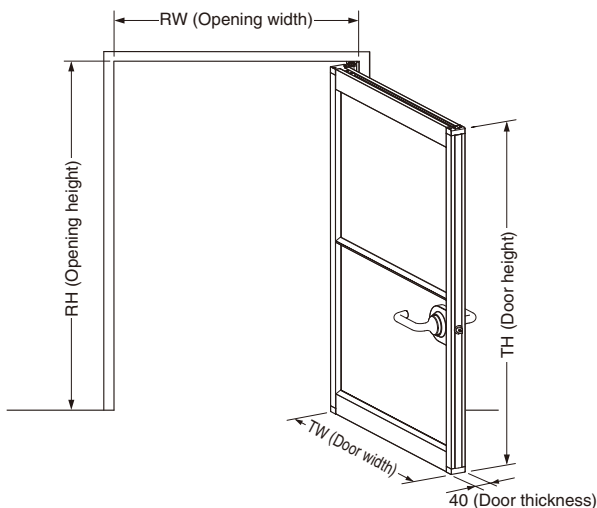
TH=RH-15 or more (when the clearance above the door is 6 mm, and the clearance under the door is a minimum of 9 mm.)

\* After installing the upper bracket with the standard clearance above the door regarded as 6 mm, install the lower bracket.

TW=RW-11 (when the hinge clearance is 7 mm, and the clearance in the door end is 4 mm.)

Ex.) Size of the door when the opening width is 900 mm, and the opening height is 2100 mm

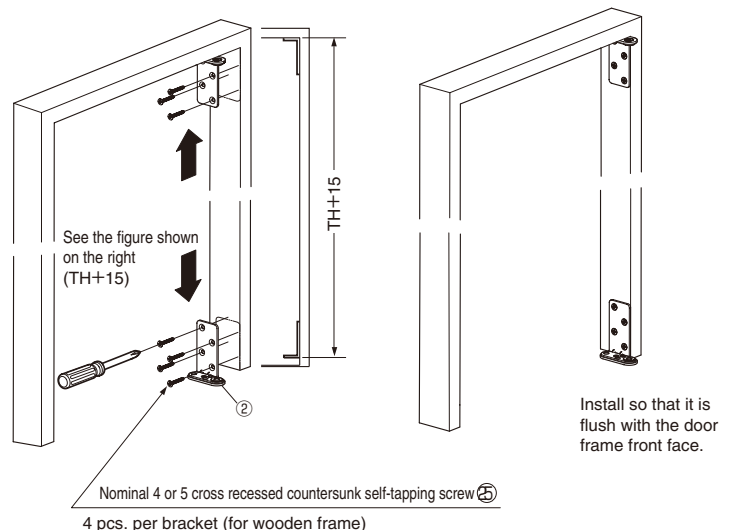
TH=2100-15=2085 mm  
TW=900-11=889 mm



## 3 Installing bracket for pivot hinge

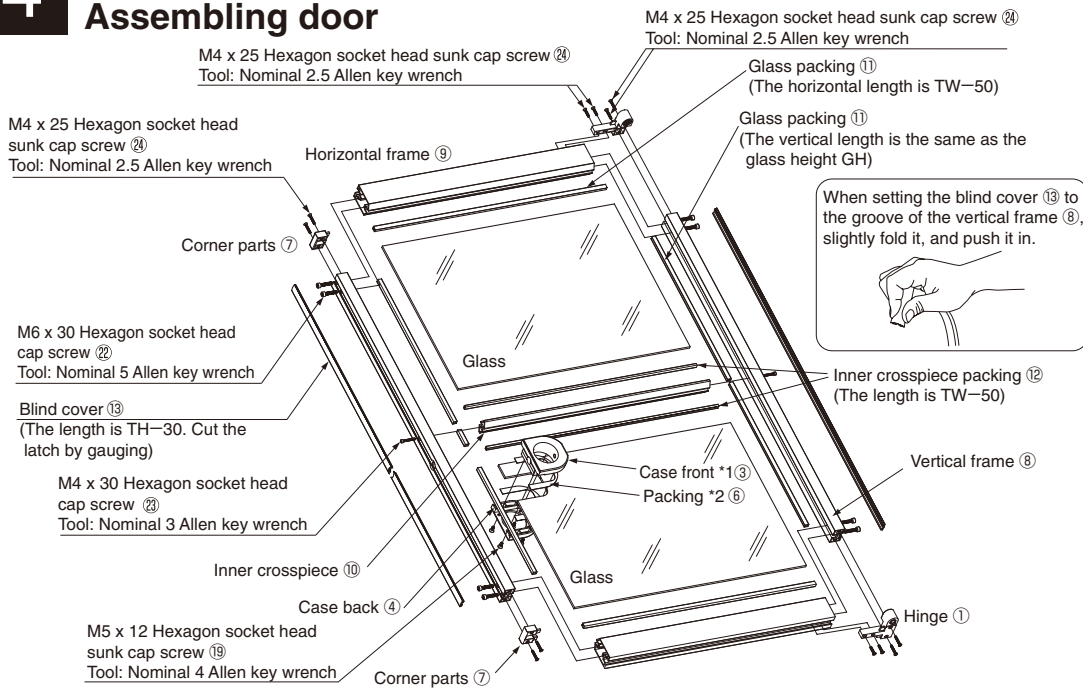
**CAUTION**

The figures shown below are applicable to the right-side-opening type door. For the left-side-opening type door, reverse vertically.



# 4

## Assembling door



**CAUTION**  
\*1 After assembling the door frame, install the case front (3) and case back (4) finally.

**CAUTION**  
The figure shown below is applicable to the right-side-opening type door. For the left-side-opening type, reverse vertically.

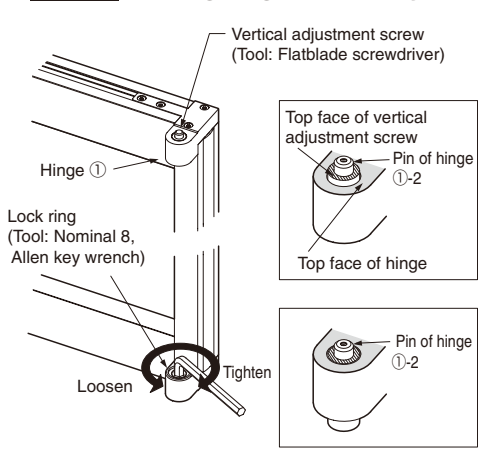
**WARNING**  
Use caution when handling glass to prevent injury.

**CAUTION**  
\*2 When the glass thickness is 5 mm, use four packings (6), and use two when the thickness is 6 mm.

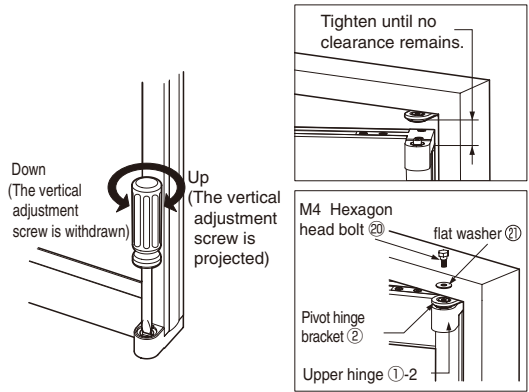
When setting the blind cover (13) to the groove of the vertical frame (8), slightly fold it, and push it in.

# 5

## Hinging and adjusting door



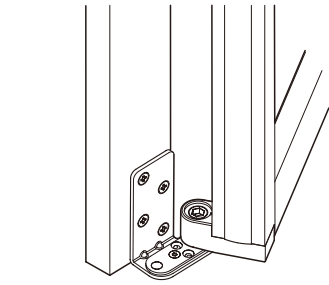
**WARNING**  
Installation requires some prior knowledge and experience.



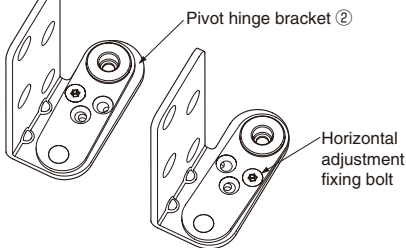
5-1. Loosen the lock ring in the upper and lower hinges (1-2), and adjust so that the top face of the vertical adjustment screw is flush with the top face of the hinge.

5-2. Insert the pin of the lower hinge (1-2) into the hole of the lower bracket. Guide the pin to the hole of the upper bracket, while pushing the pin of the upper hinge with your finger. Then, release your finger from the pin, and push the pin into the upper bracket. After setting it, ensure that the door cannot be removed even if it is pulled.

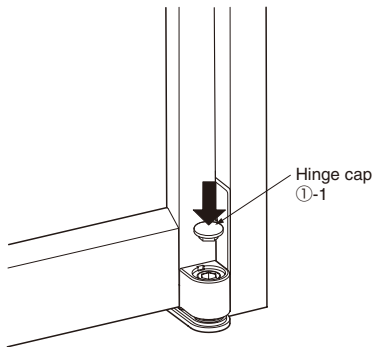
5-3. Tighten (up) the vertical adjustment screw of the lower hinge (1-2) until no clearance is left between the upper hinge (1-2) and the upper pivot hinge bracket (2). After the adjustment is complete, attach the locking flat washer (21) and the hexagon head bolt (20) to the upper hinge (1-2).



5-4. Securely tighten the lock ring in the upper and lower hinges (2).



5-5. For horizontal adjustment, loosen the horizontal adjustment fixing bolt located at the upper and lower pivot hinge brackets (2), select one among the three holes, and re-tighten the bolt for fixing. Horizontal adjustment by 2 mm from the center is possible. (Tool: Nominal 3 Allen key wrench)



5-6. Attach the hinge cap (1-1) at last.

**WARNING**  
Failure in tightening screws may cause removal of the door, leading to accidents. Be sure to tighten screws securely.

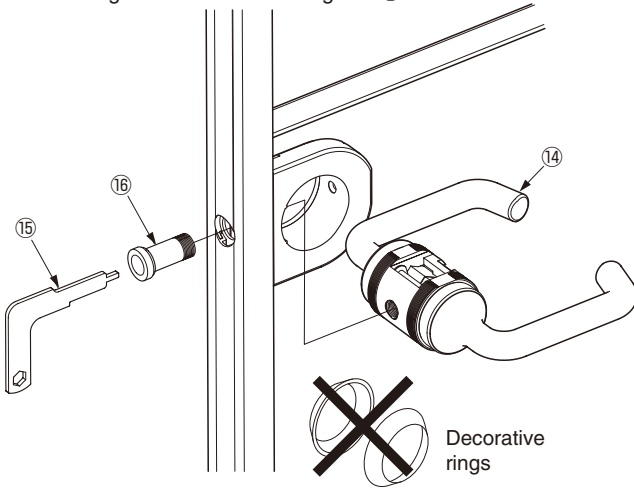
# 6

## Installing lever handle

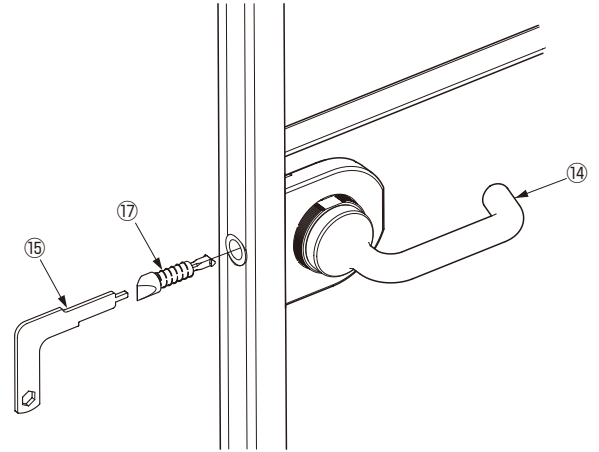
**CAUTION**

Thoroughly read the included instruction manual before installing the lever handle.

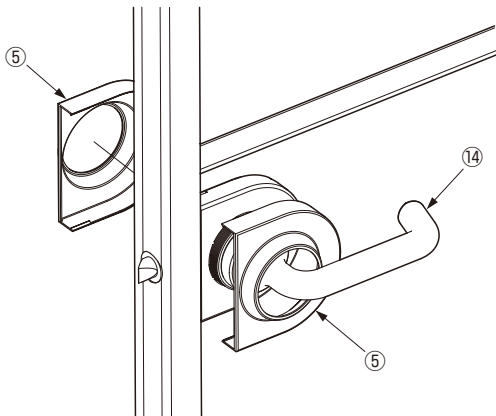
6-1. Use the included special tool ⑮ for installing the lever handle fixing bolt ⑯.



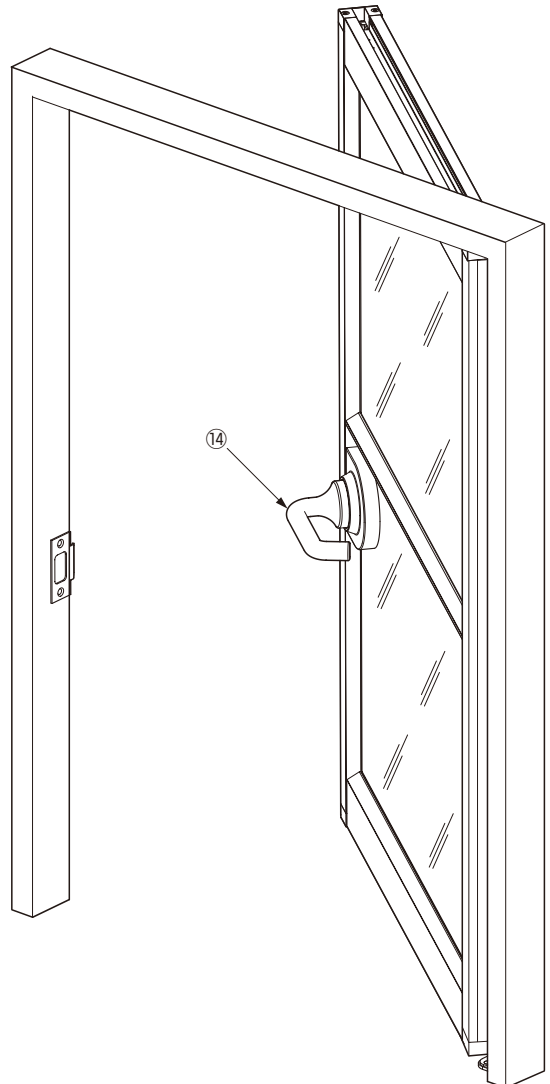
6-2. Use the included special tool ⑮ for installing the latch bolt ⑰.



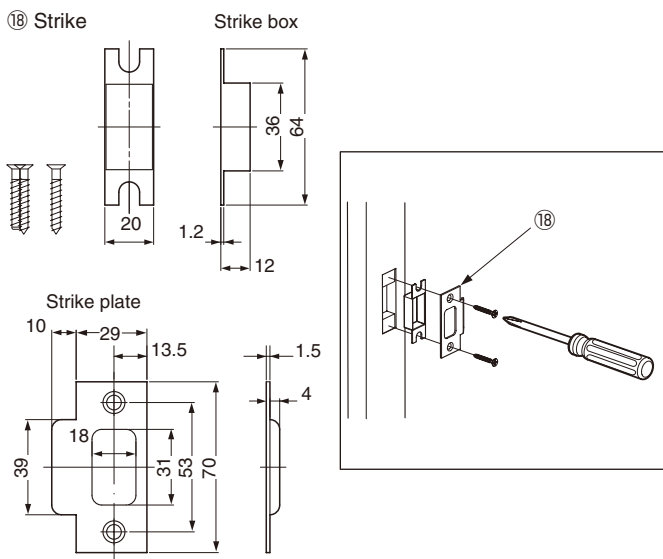
6-3. Securely push the case cover (木) until it is fixed.



6-5. Hold the lever handle ⑭, and close the door. Ensure that the door can close properly.



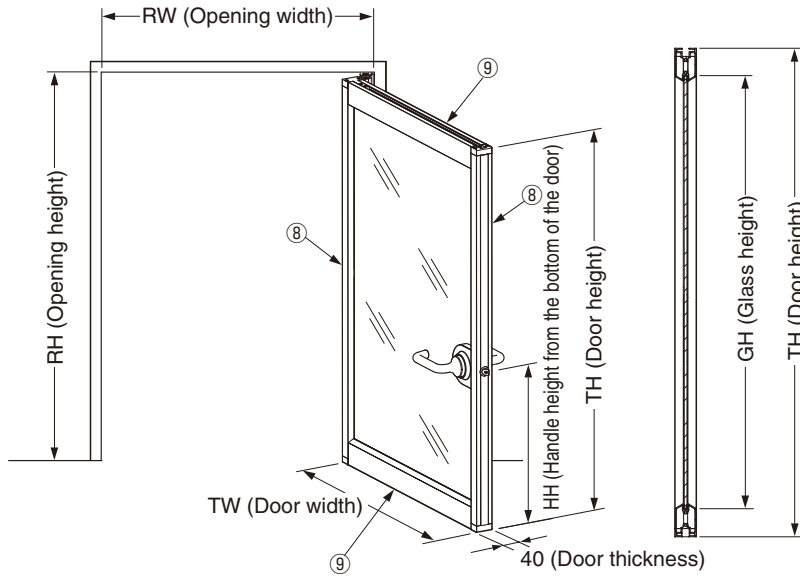
6-4. Install the strike ⑱ by gauging. Refer to the drawings shown below.



# 7-1

## No crosspiece type

### Dimensional drawing of opening and door



$$GH \text{ (Glass height)} = \frac{TH - 104 - (\text{Q'ty of internal crosspiece} \times 11)}{\text{Q'ty of glass}}$$

$$GW \text{ (Glass width)} = TW - 34$$

Ex.) When the door height is 2400 mm and the width is 900 mm,

$$GH = \frac{2400 - 104 - (0 \times 11)}{1} \quad GW = 900 - 34$$

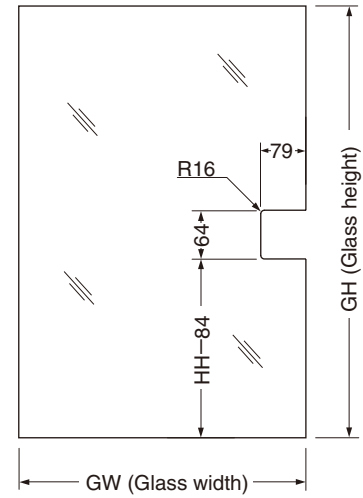
$$GH = 2296 \text{ mm}$$

$$GW = 866 \text{ mm}$$

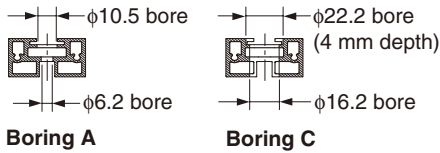


### Cutting glass

Drawing of glass for lever handle installation

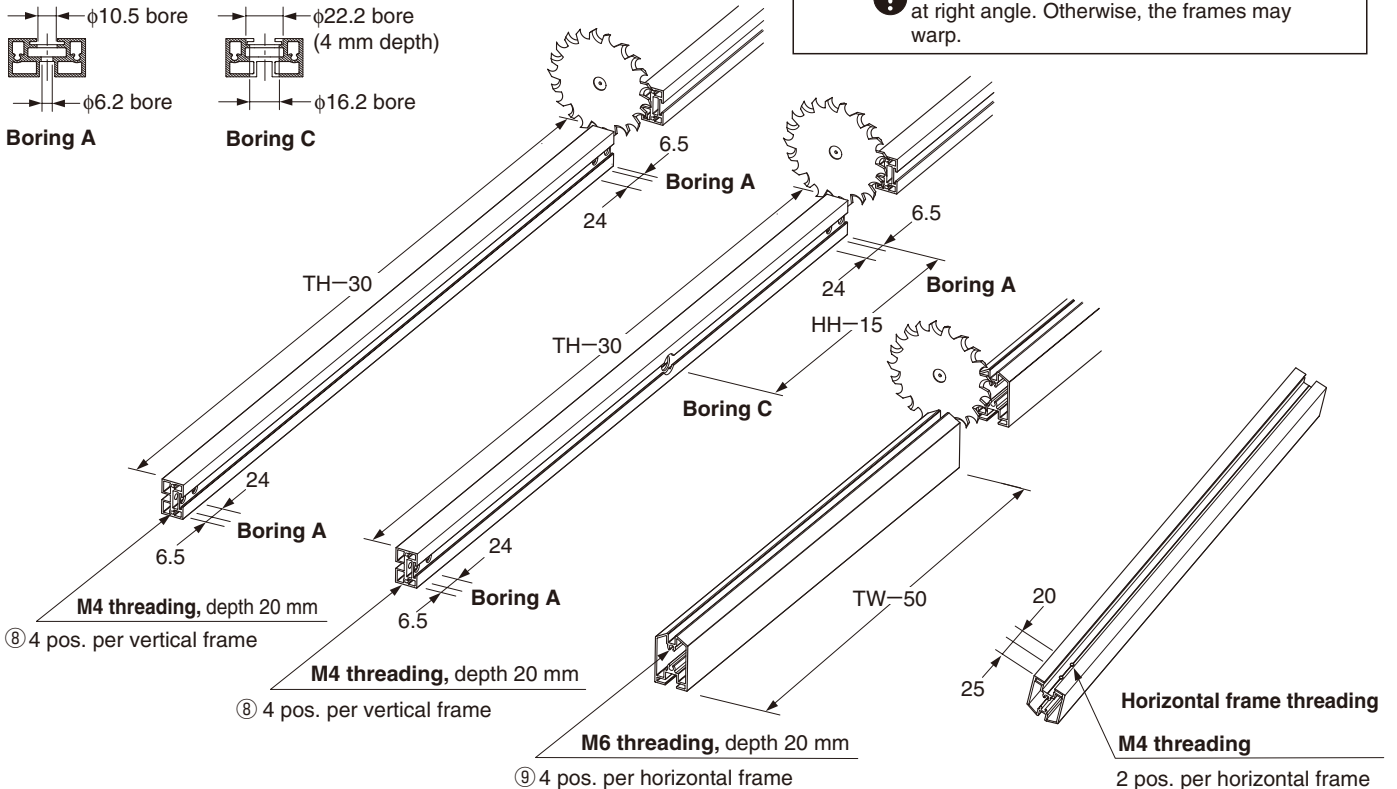
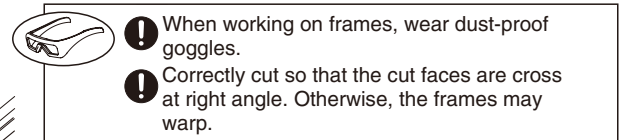


### Frame



Boring A

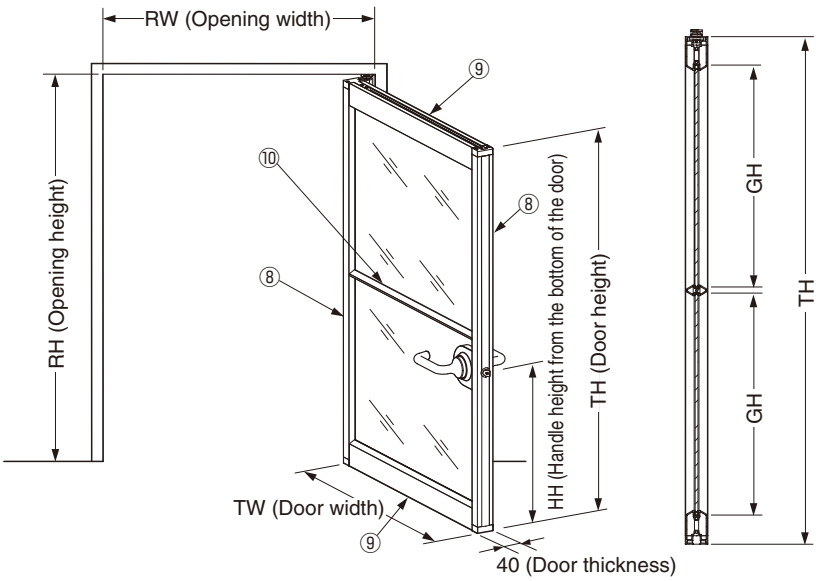
Boring C



# 7-2

## One crosspiece type

### Dimensional drawing of opening and door



$$GH \text{ (Glass height)} = \frac{TH - 104 - (\text{Q'ty of internal crosspiece} \times 11)}{\text{Q'ty of glass}}$$

$$GW \text{ (Glass width)} = TW - 34$$

Ex.) When the door height is 2400 mm, the width is 900 mm, and an internal crosspiece is located in the middle,

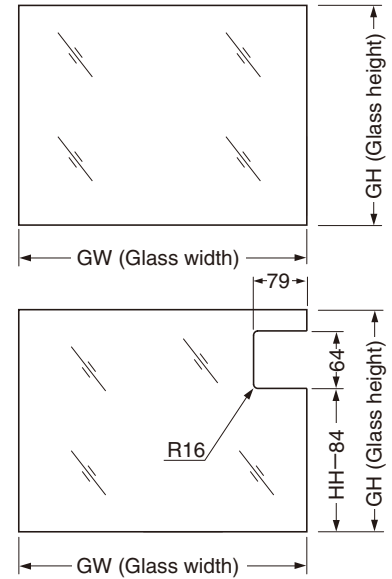
$$GH = \frac{2400 - 104 - (1 \times 11)}{2} \quad GW = 900 - 34$$

$$GH = 1142.5 \text{ mm (1142 mm)} \quad GW = 866 \text{ mm}$$

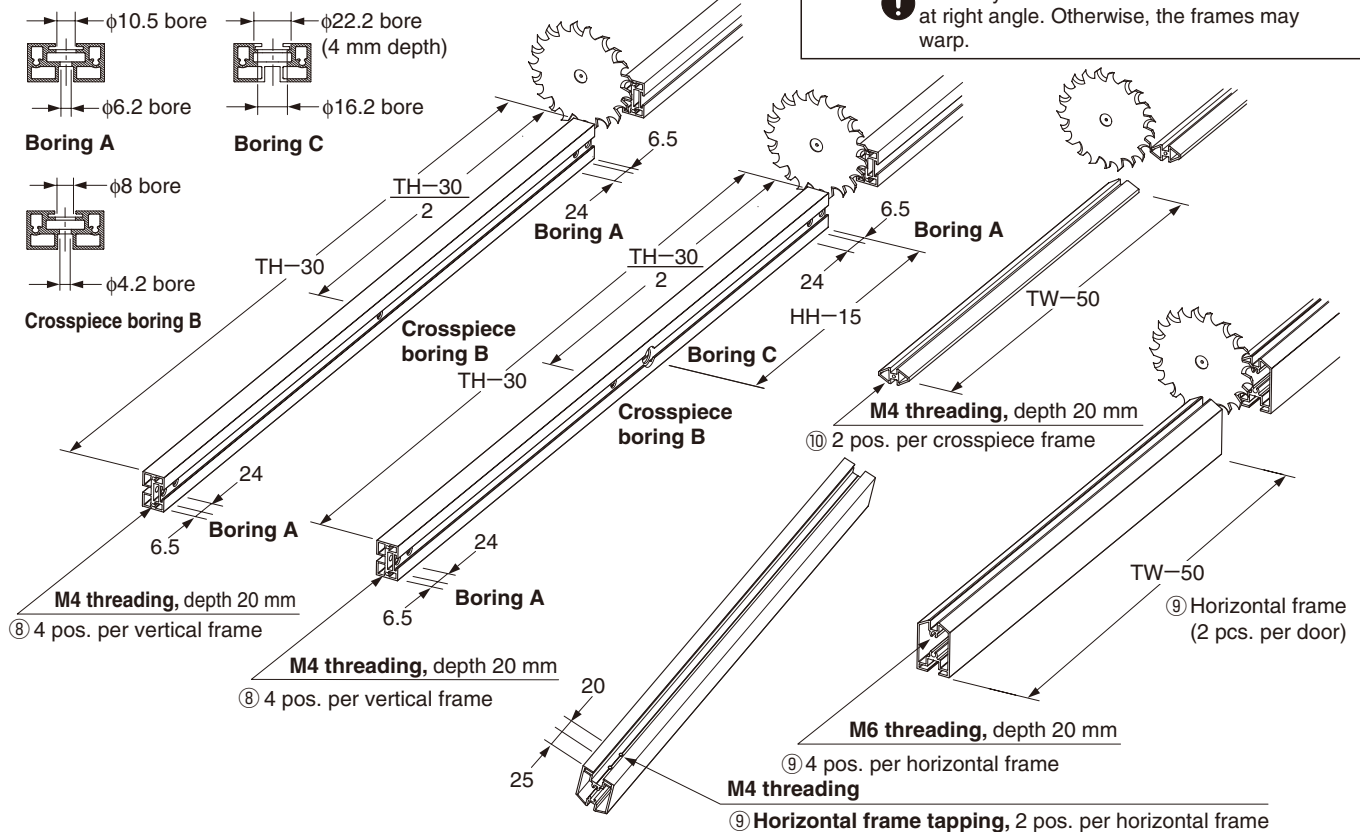


### Cutting glass

Drawing of glass for lever handle installation



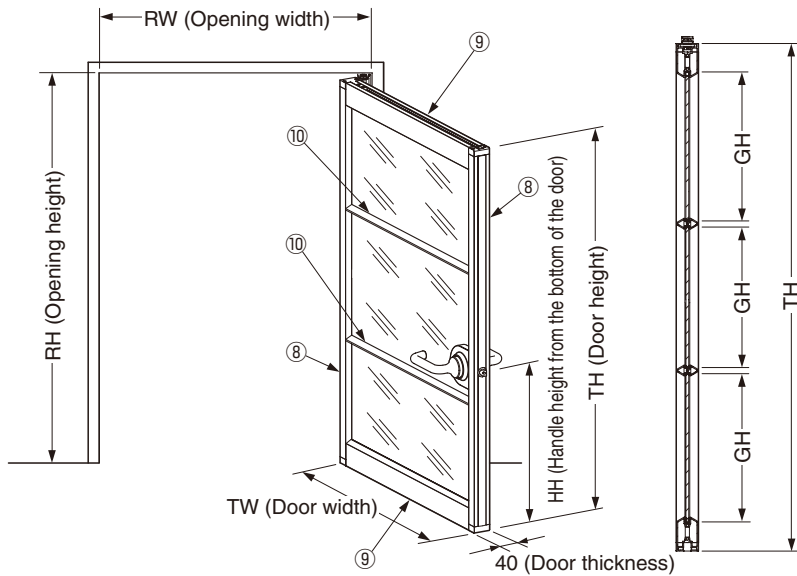
### Frame



# 7-3

## Two crosspiece type

### Dimensional drawing of opening and door



$$GH \text{ (Glass height)} = \frac{TH - 104 - (\text{Q'ty of internal crosspiece} \times 11)}{\text{Q'ty of glass}}$$

$$GW \text{ (Glass width)} = TW - 34$$

Ex.) When the door height is 2400 mm and the width is 900 mm, and two internal crosspieces are located in the middle,

$$GH = \frac{2400 - 104 - (2 \times 11)}{3} \quad GW = 900 - 34$$

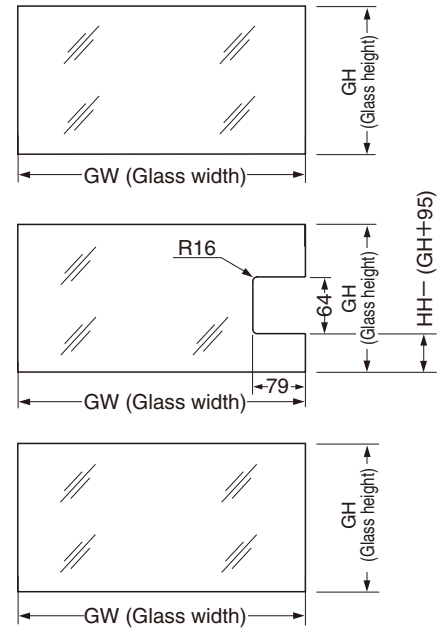
$$GH = 758 \text{ mm}$$

$$GW = 866 \text{ mm}$$

**CAUTION**  
Glass is not supplied.

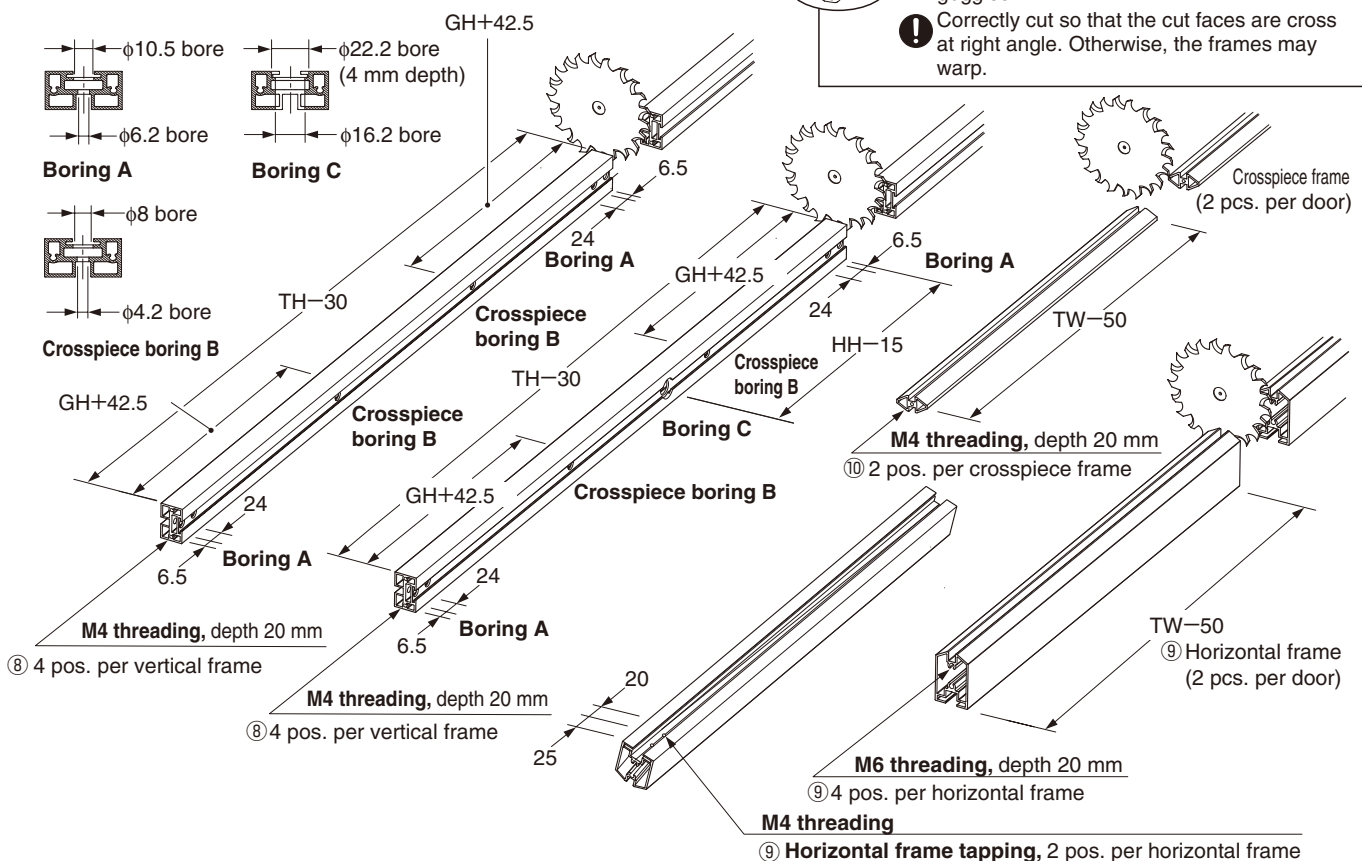
### Cutting glass

Drawing of glass for lever handle installation



**WARNING**  
Use unbreakable glass or safety glass.

### Frame



**CAUTION**  
When working on frames, wear dust-proof goggles.  
Correctly cut so that the cut faces are cross at right angle. Otherwise, the frames may warp.

# Dimensional drawing of opening and door

