Aluminum TENKENKO-N / Inspection Opening Frame for ceilings

Made in 🔴 **FUKUVI**

● **Inspection opening frame for ceiling with a hanging lid that dose not get dirty easily**

450 type

Open

Key features

■ The lid is connected to the frame and hangs when open

■ The lid doesn't get dirty easily when opening and closing

Hard to get dirty

■ The lid can be closed with a lock

■ Clean and neat connection with paint and wallpaper
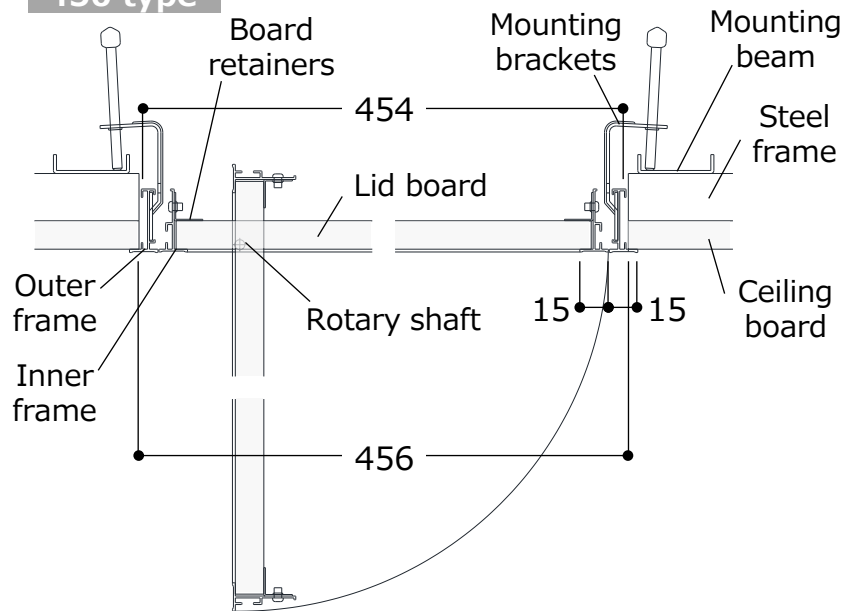
Lock

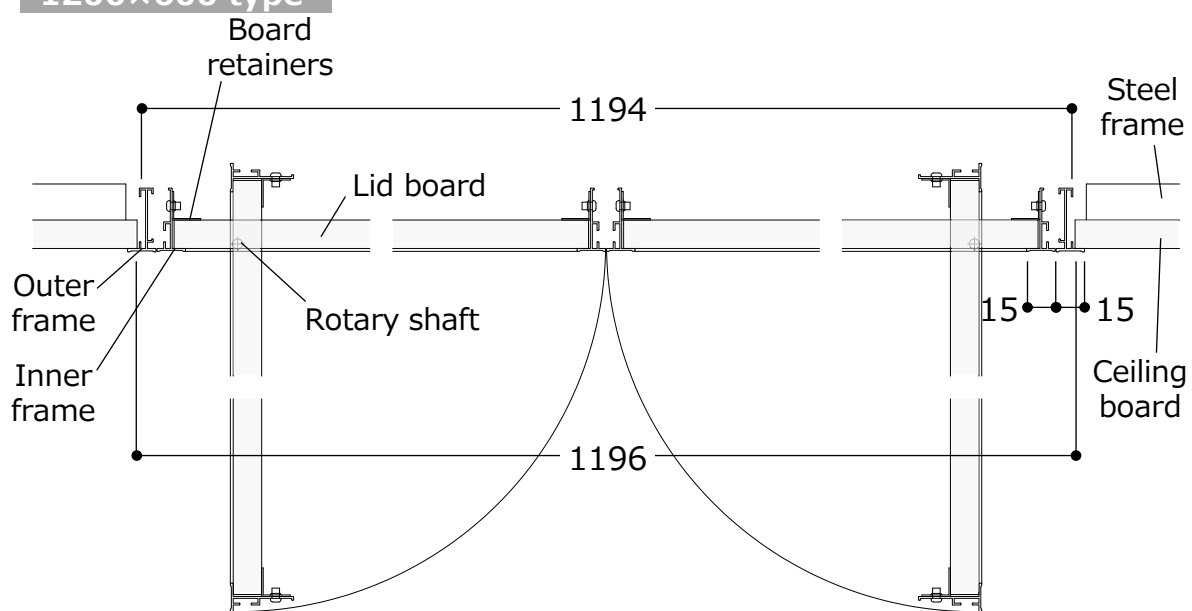■ Large equipment can be moved in and out

1200×600 type

Open

● **Material** : Aluminum

● **Color** : Silver

● **Size** : **450** type
  600 type
  1200×600 type

● **MOQ** : 1 set

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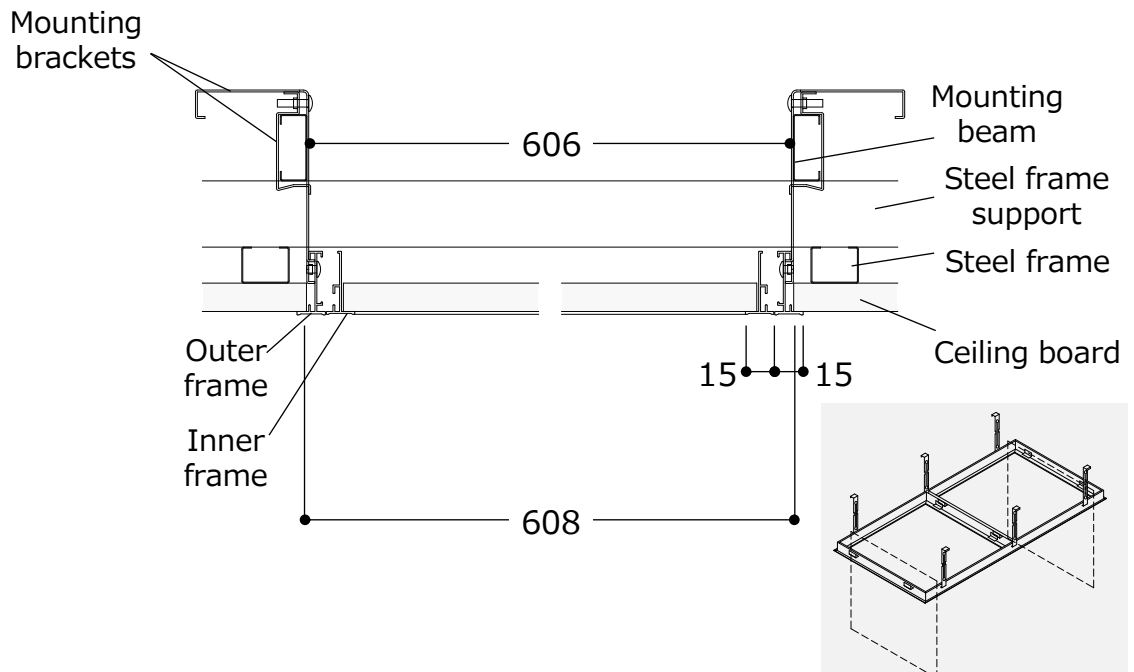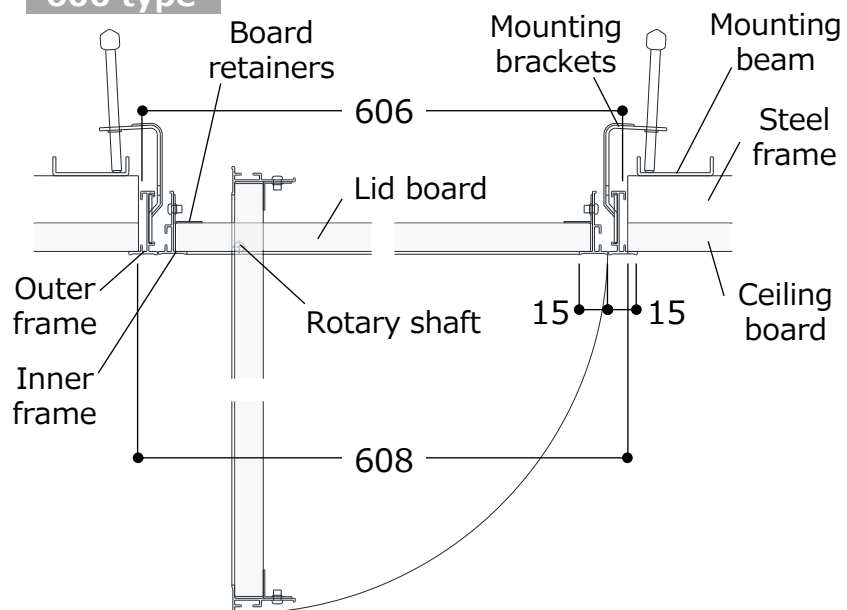|	**450** type	**600** type	**1200×600** type
Frame	ALUMINUM 454×454㎜	ALUMINUM 606×606㎜	ALUMINUM 1194×606㎜
Attachable board thickness	4～27㎜	4～27㎜	4～27㎜
Ceiling opening dimensions	456×456㎜	608×608㎜	1196×608㎜
Inspection opening dimensions	436×364㎜	588×516㎜	1038×588㎜
Accessories	Board retainers　Mounting Brackets	Board retainers　Mounting Brackets	Board retainers　Mounting Brackets　Fixing Brackets　Hanging brackets

● Installation drawing

450 type

Board retainers
Mounting brackets
Mounting beam
454
Steel frame
Lid board
Outer frame
Rotary shaft
15   15
Ceiling board
Inner frame
456

1200×600 type

Board retainers
Steel frame
1194
Lid board
Outer frame
Rotary shaft
15   15
Inner frame
Ceiling board
1196

Mounting brackets
606
Mounting beam
Steel frame support
Steel frame
Outer frame
15   15
Ceiling board
Inner frame
608

600 type

Board retainers
Mounting brackets
Mounting beam
606
Steel frame
Lid board
Outer frame
Rotary shaft
15   15
Ceiling board
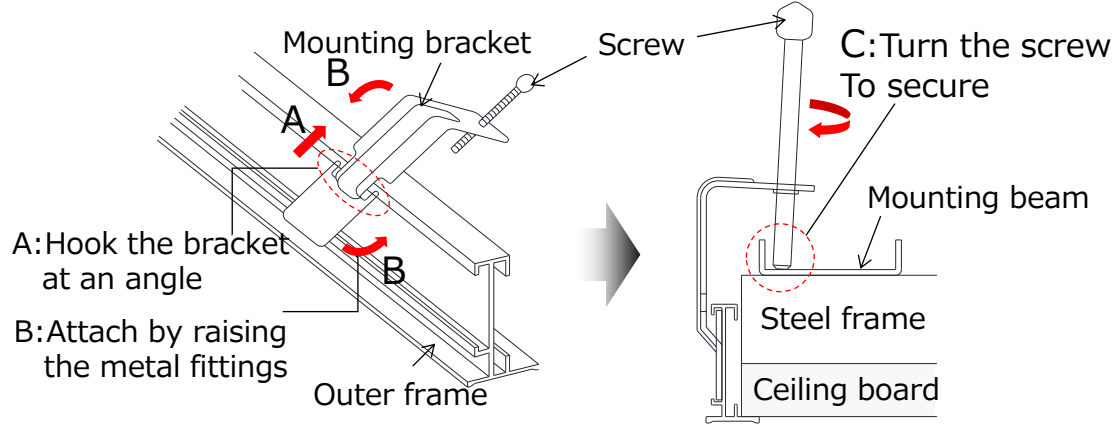Inner frame
608

●Installation （450, 600 type）

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① Install the steel frame base, and create an opening in the ceiling material

・Mount the base (be sure to preserve the opening's integrity)
・Create an opening for the outer frame

Steel frame support

Mounting beam

Steel frame

Opening

456mm （for 450 type）
608mm （for 600 type）
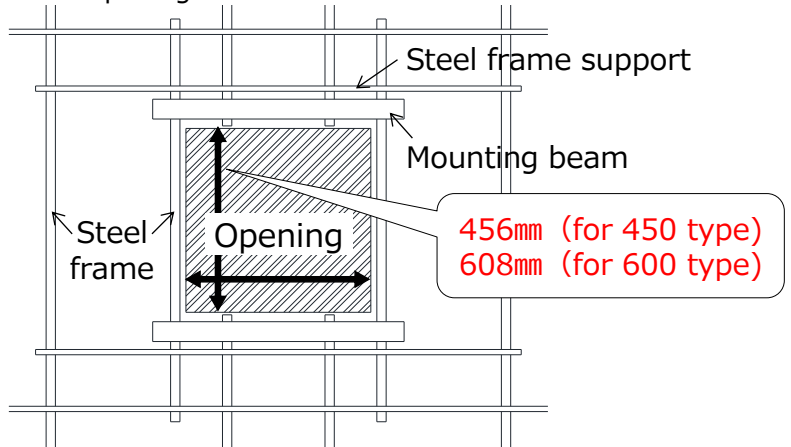
② Attach the outer frame to the mounting base (Lightweight steel base)

・Fit the outer frame into the opening
・Attach the mounting bracket to the outer frame (A, B)
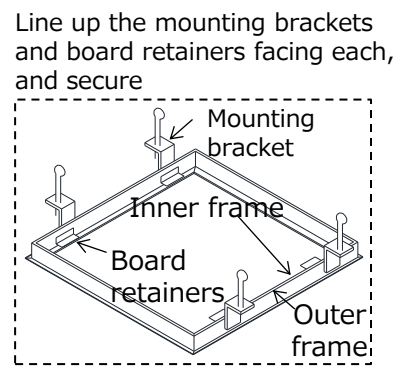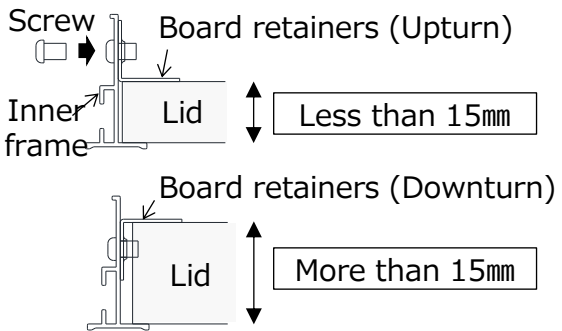・Turn the screw to secure it to the support beam(C)

Mounting bracket　　Screw

B

A

B

C:Turn the screw To secure

Mounting beam

A:Hook the bracket at an angle

B:Attach by raising the metal fittings

Outer frame

Steel frame

Ceiling board

③ Secure the lid to the inner frame

・Lid thickness: Up to 25mm
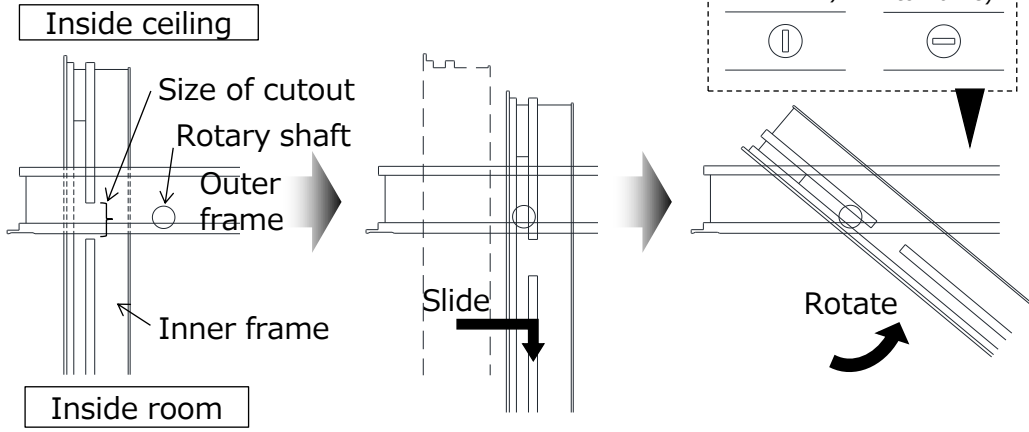・Cut the lid to fit the inner frame (Refer below)

Lid
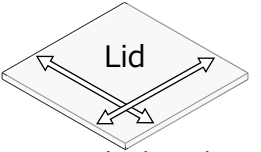
Product	Thickness	450 type	600 type
Lid dimensions	Less than 15mm	417mm	569mm
	More than 15mm	415mm	567mm

・Insert the board into the inner frame and secure the lid with board retainers
※The direction of retainers will change depending on the thickness of the board

Screw

Board retainers (Upturn)

Inner frame

Lid

Less than 15mm

Board retainers (Downturn)

Lid

More than 15mm

Line up the mounting brackets and board retainers facing each, and secure

Mounting bracket

Inner frame

Board retainers
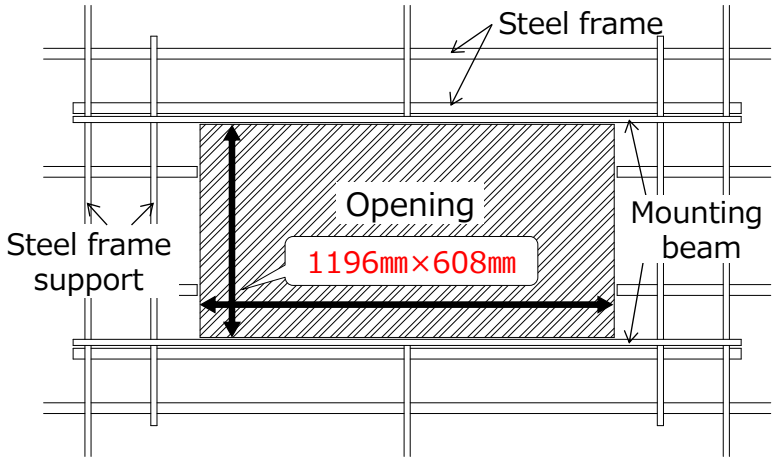
Outer frame

④ Attach the inner frame to the outer frame

・Insert the inner frame into the outer frame
・Slide the inner frame onto the rotary shaft through the inner frame's cutout, then slide it down into place.
・Rotate the inner frame 90 degrees and turn the key 90 degrees to lock it

Locking Mechanism
Open
(Perpendicular to frame)
Close
(Parallel to frame)

Inside ceiling

Size of cutout

Rotary shaft

Outer frame

Inner frame

Inside room

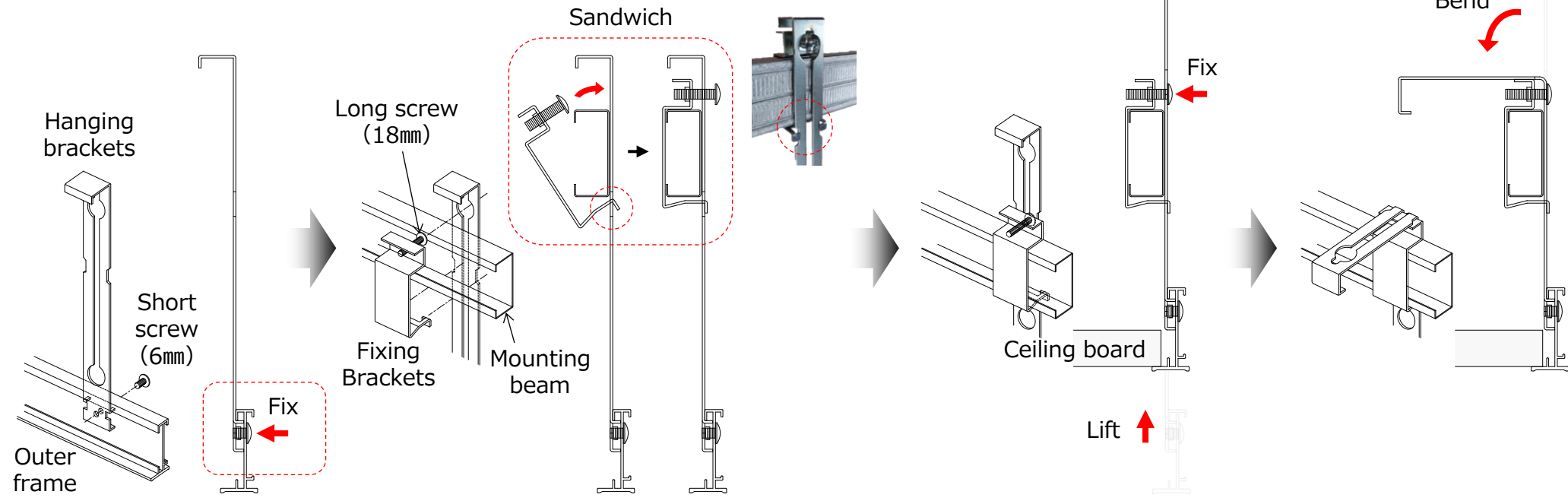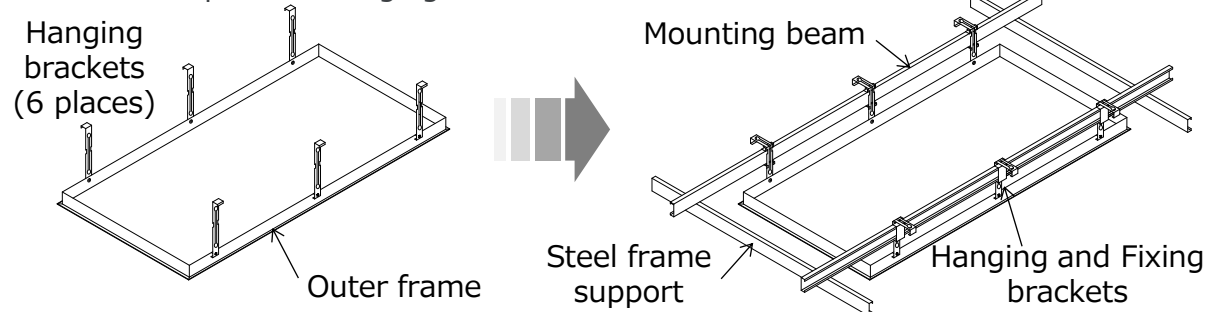Slide

Rotate

●Installation（1200×600 type）

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① Install the steel frame base, and create an opening in the ceiling material

・Mount the base (be sure to preserve the opening's integrity)
・Create an opening for the outer frame

Steel frame

Opening
1196mm×608mm

Mounting beam

Steel frame support

② Attach the outer frame to the mounting base (Lightweight steel base)

・Fix six hanging brackets to the outer frame with short screws, and then fit them into the opening
・After attaching the long screw to the fixing bracket, sandwich the mounting beam between hanging brackets and fixing brackets
・Lift the outer frame, align it to the ceiling, and then secure it with long screws
・Bend the top of the hanging bracket

Hanging brackets (6 places)

Mounting beam

Outer frame

Steel frame support

Hanging and Fixing brackets

Hanging brackets

Long screw （18mm）

Sandwich

Bend

Fix

Short screw （6mm）

Fix

Fixing Brackets

Mounting beam

Ceiling board

Lift

Outer frame

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③ Secure the lid to the inner frame

・Lid thickness: Up to 25mm
・Cut the lid to fit the inner frame (Refer below)

Lid
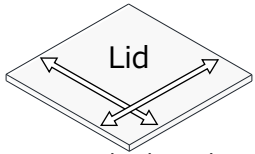
Product	Thickness	1200×600 type
Lid dimensions	Less than 15mm	569mm
	More than 15mm	567mm

・Insert the board into the inner frame and secure the lid with board retainers
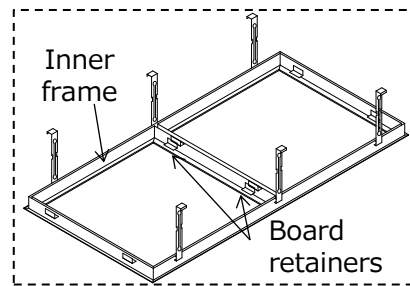※The direction of retainers will change depending on the thickness of the board
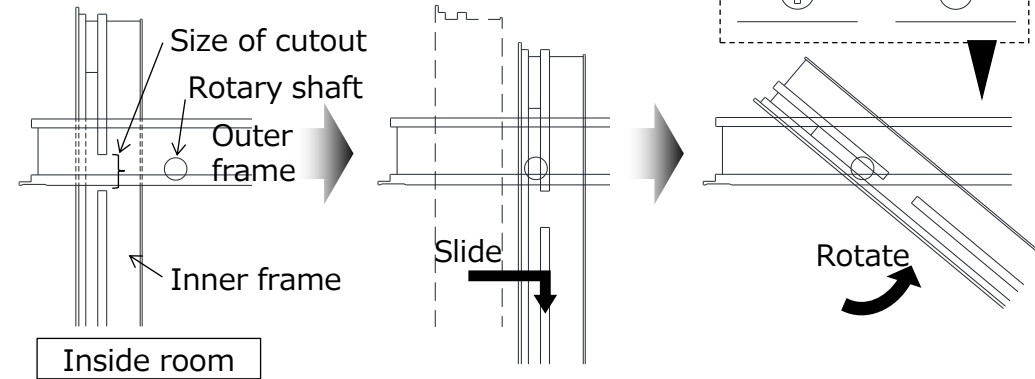
Screw
Board retainers (Upturn)
Inner frame
Lid — Less than 15mm
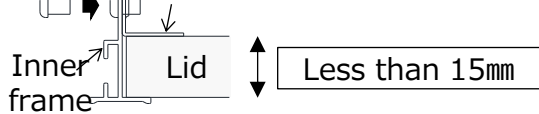
Board retainers (Downturn)
Lid — More than 15mm
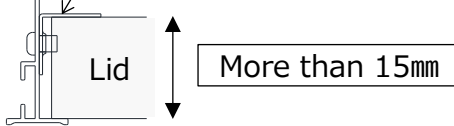
Line up the board retainers facing each, and secure

Inner frame
Board retainers

④ Attach the inner frame to the outer frame

・Insert the inner frame into the outer frame
・Slide the inner frame onto the rotary shaft through the inner frame's cutout, then slide it down into place.
・Rotate the inner frame 90 degrees and turn the key 90 degrees to lock it

Locking Mechanism
Open (Perpendicular to frame)   Close (Parallel to frame)

Inside ceiling

Size of cutout
Rotary shaft
Outer frame
Inner frame
Slide
Rotate

Inside room

❌ After installation or during inspection, do not stand on the frame.
Standing on it will damage the frame.

❌ When opening the lid, for safety, support it with your hand.
If not supported, the lid will open with force, creating a dangerous situation.

●Construction example ＜Aluminum TENKENKO-N＞

■FACILITY（HO CHI MINH／VIETNAM） 600 type

■**SHOP（HO CHI MINH／VIETNAM）** 600 type

■**BUILDING（TOKYO／JAPAN）** 450 type