

Brio Weatherfold 4s 100

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Codes

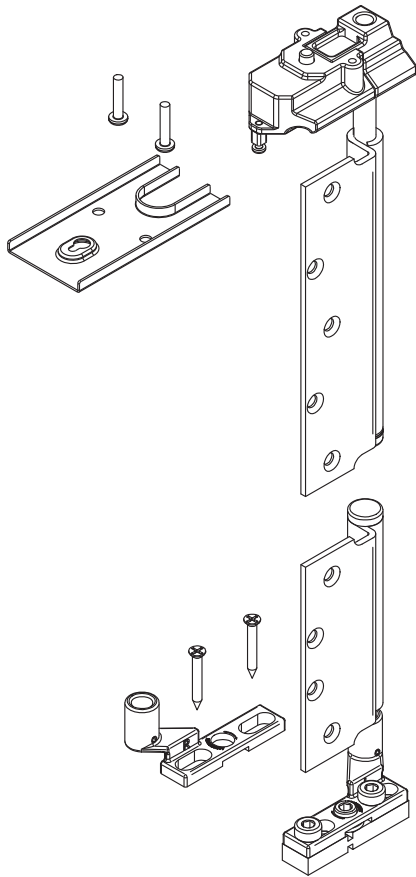
B WS 1 - 100 S A SS

- Finish: SS (Satin Stainless)
- Hinge Type: Non-Mortice Composite
- Bearing Type: S (Stainless Steel Bearing)
- Load Capacity: 100kg (220lbs) panels.
- Set No.: 1 (Pivot Set), 2 (End Hanger Set), 4 (Intermediate Hanger Set), 3 (Hinge Handle Set), 5 (Hinge Set), 6 (Offset Hinge Set), 7 (Offset Hinge Handle Set)

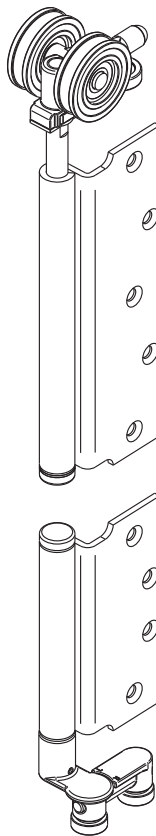
Brio Weatherfold 4s

Sets all sets shown with hinge type A except. No finishes shown.

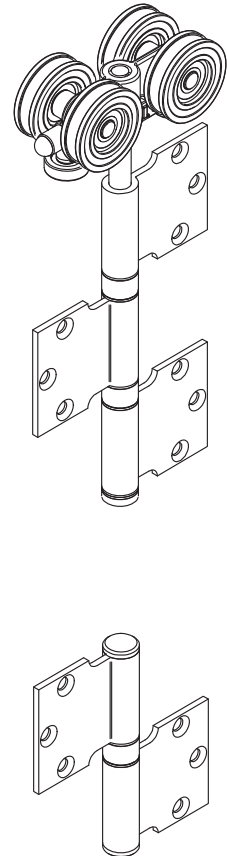
BWS1-100A



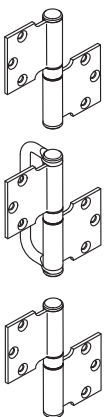
BWS2-100SA



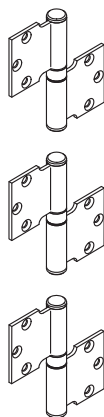
BWS4-100SA



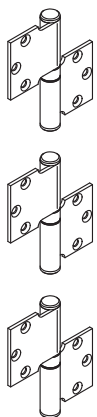
BW3-100A



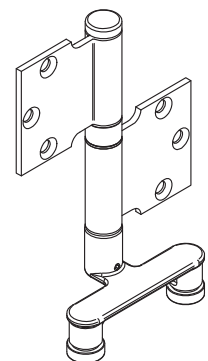
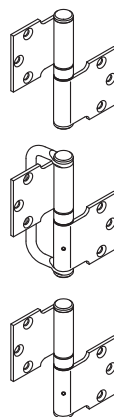
BW5-100A



BW6-100A

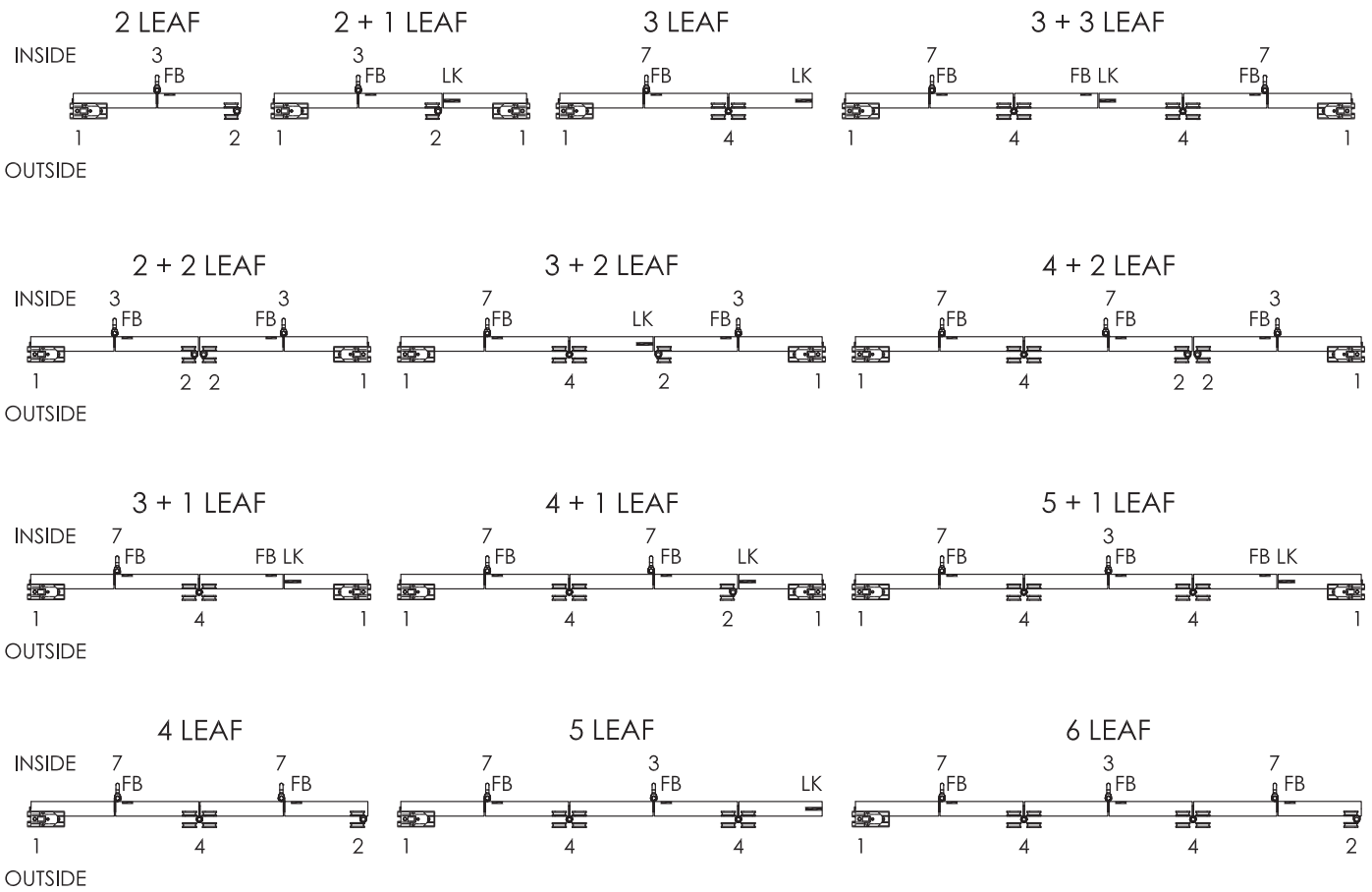


BW7-100A

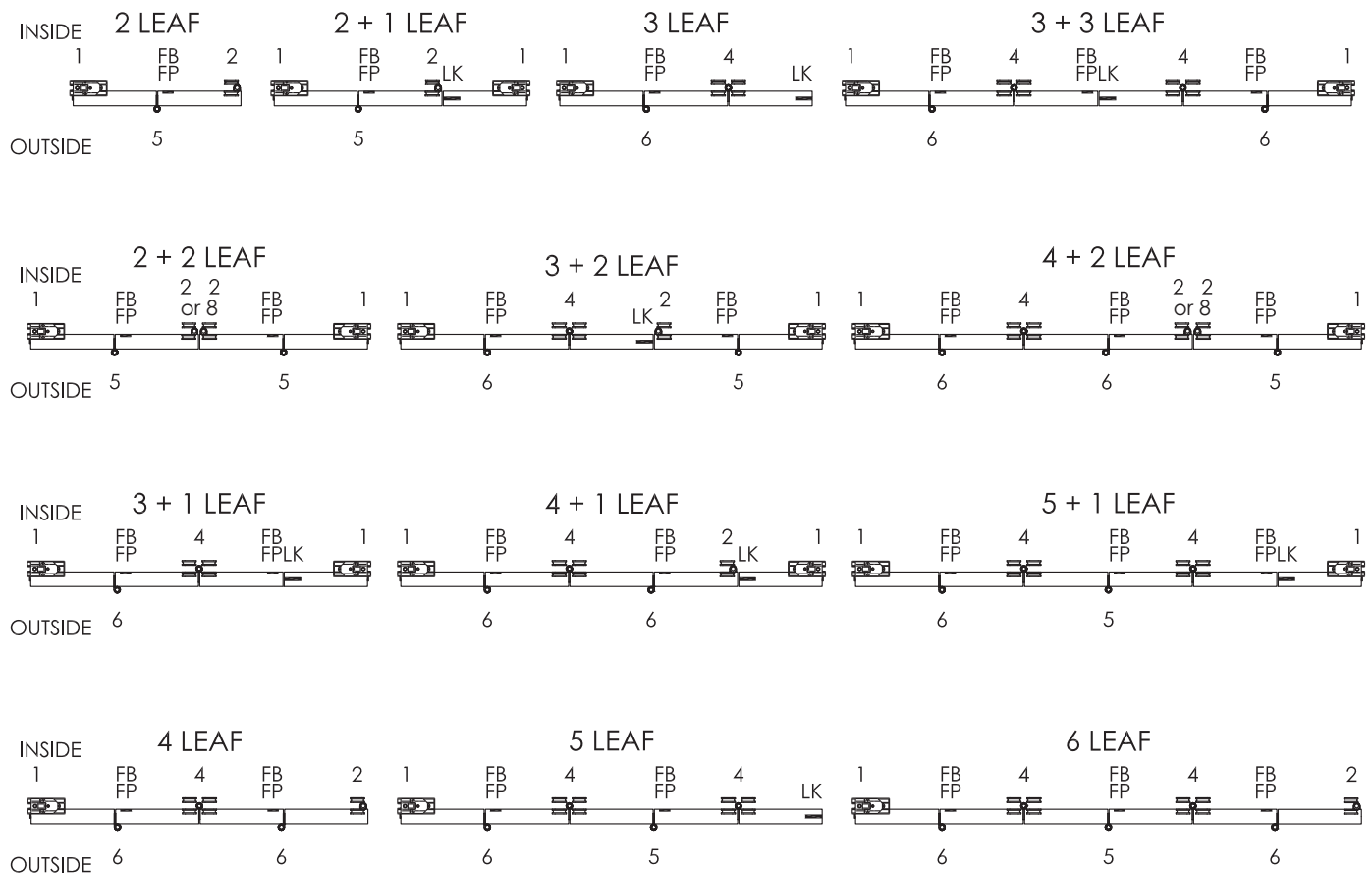


Door Hardware Set Orientation FB = Flush Bolt, FP = Flush Pull, LK = Lock, left systems shown

OUTWARD OPENING

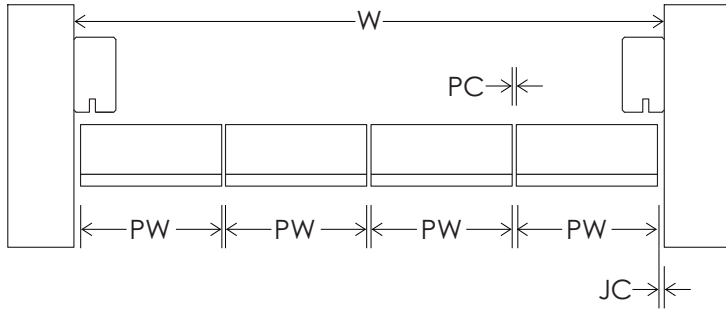


INWARD OPENING



Panel Size Calculation free leaf width calculator available from Brio (includes BOM & pricing)

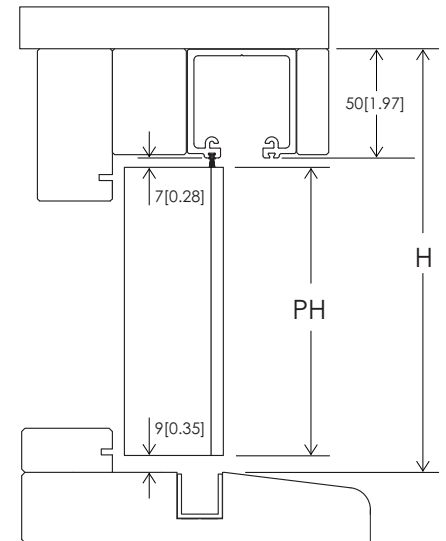
Brio Weatherfold 4s allows for equal size panels



N = No. of Panels
 PW = Panel Width
 JC = Jamb Clearance = 6[0.24]
 PC = Panel Clearance = 4[0.16]

$$PW = \frac{W - [PC(N-1) + 2(JC)]}{N}$$

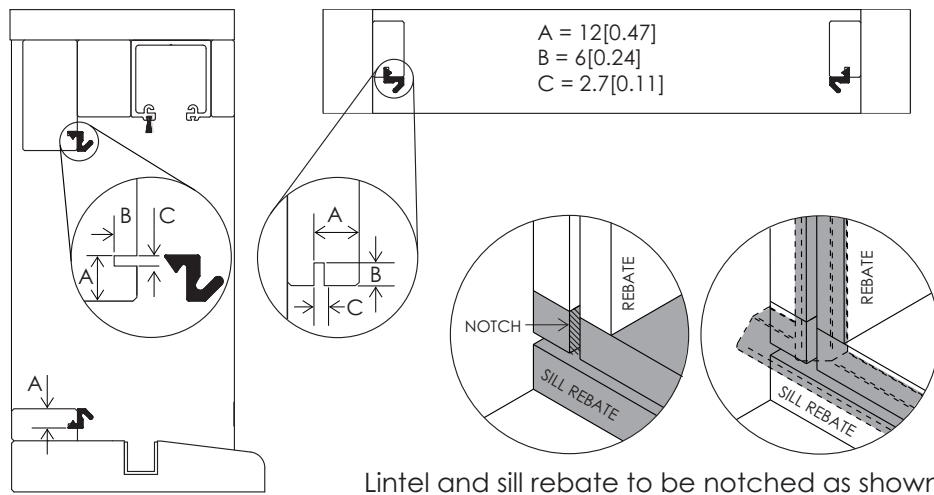
PH = Panel Height



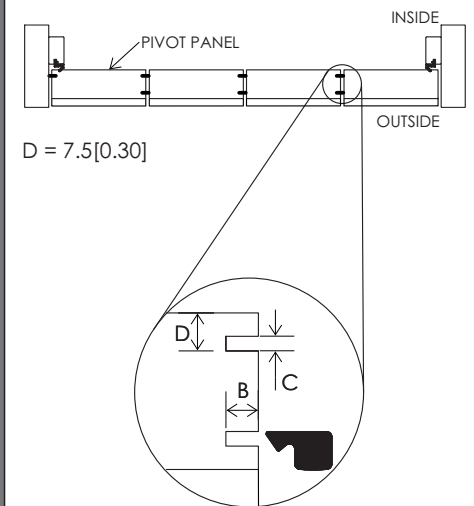
$$PH_{250\text{ TRACK}} = H - 66[2.60]$$

Seal Preparation left, outward opening system shown

Frame - AQ21 (perimeter seals to butt against each other in corners)



Panel - AQ63



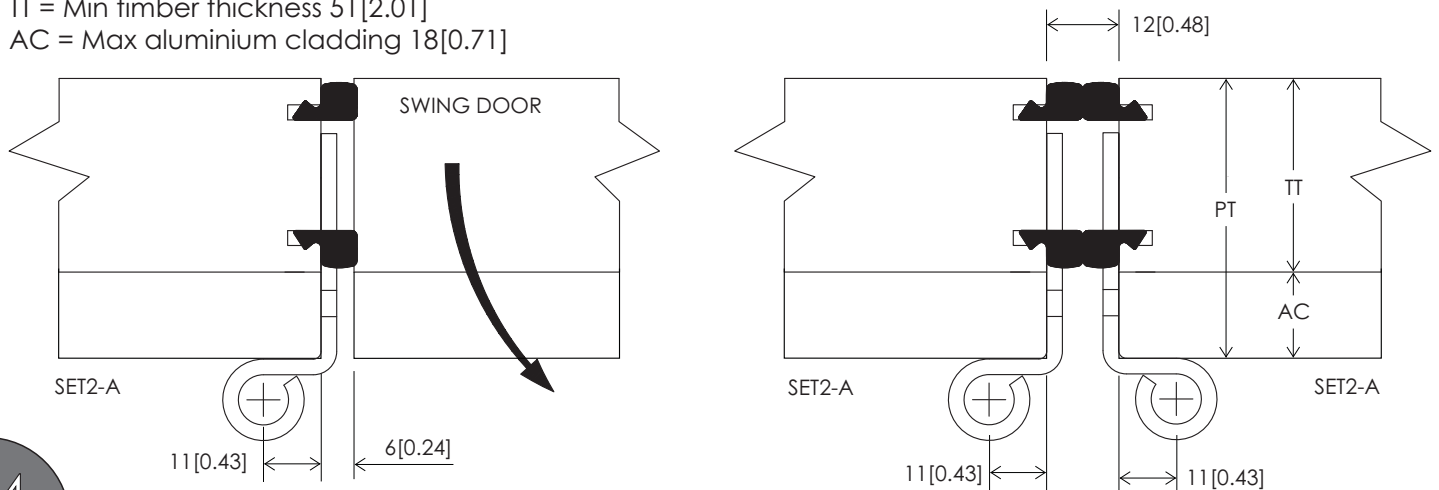
Meeting Door Selection

2 Meeting square doors

$$PT = AC + TT$$

TT = Min timber thickness 51[2.01]

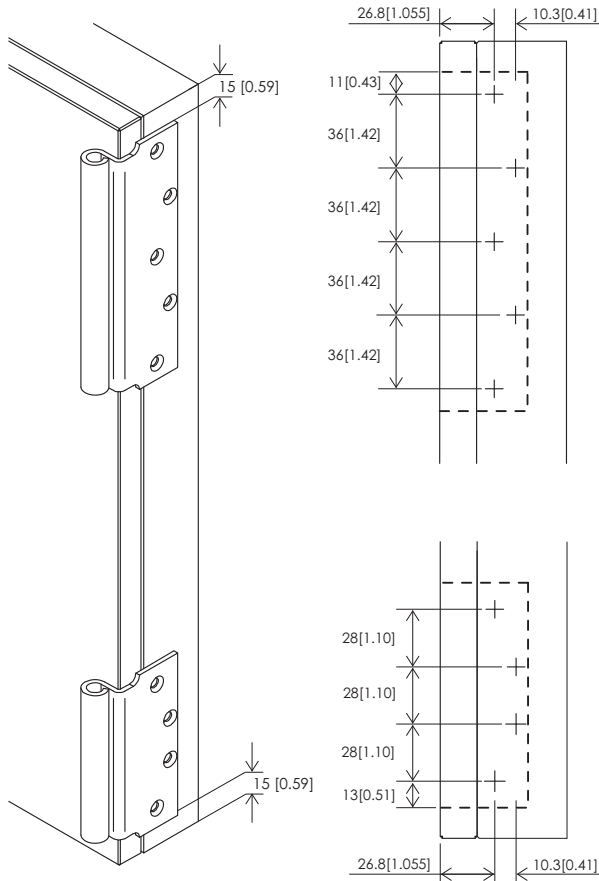
AC = Max aluminium cladding 18[0.71]



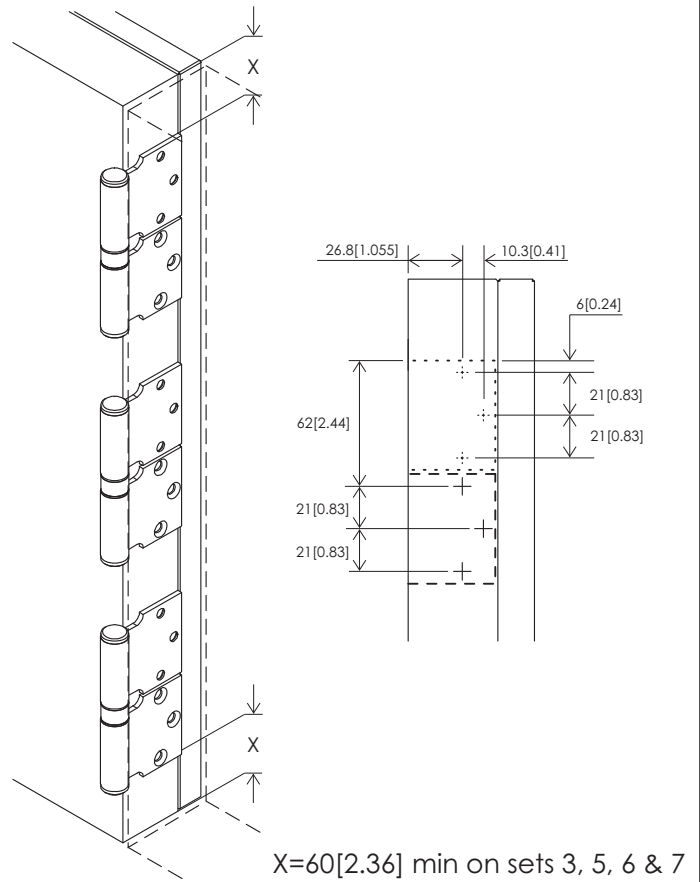
Hinge Installation

pilot hole of $\varnothing 2.5\text{mm}$ [0.12"] recommended

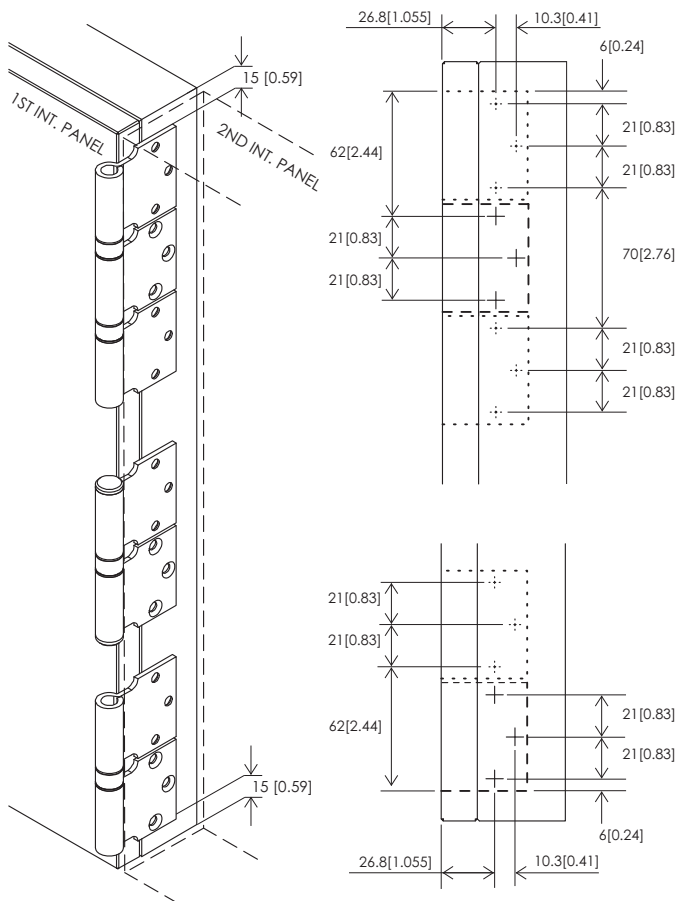
Non-mortice Composite A - Sets 1 & 2
 Timber Thickness min. 51[2.01]
 Aluminium Cladding max. 18[0.71]



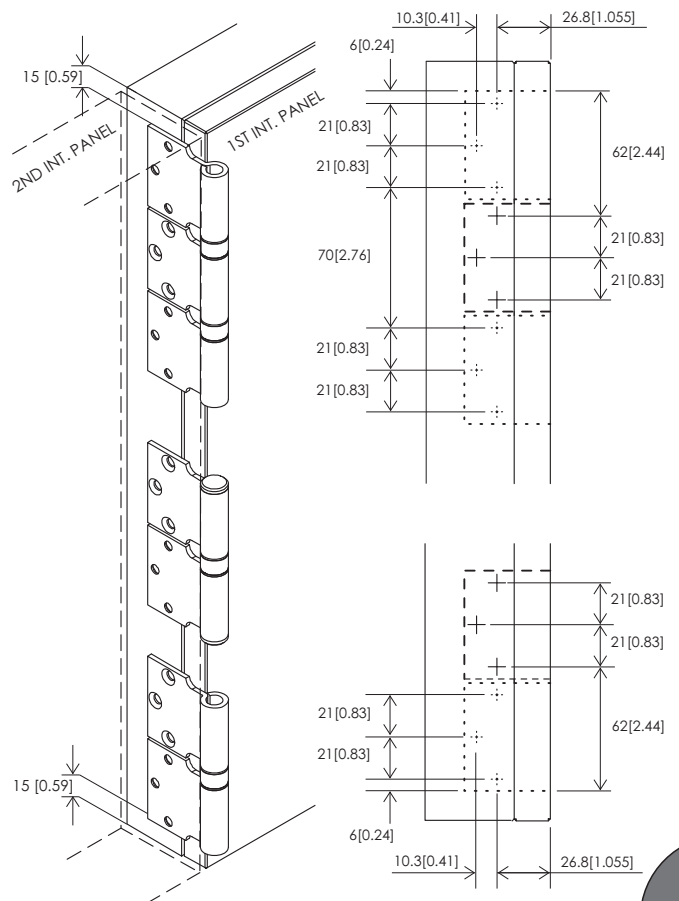
Non-mortice Composite A - Set 3, 5, 6 & 7
 Timber Thickness min. 51[2.01]
 Aluminium Cladding max. 18[0.71]



Non-mortice Composite A - Set 4 (for left opening)
 Timber Thickness min. 51[2.01]
 Aluminium Cladding max. 18[0.71]



Non-mortice Composite A - Set 4 (for right opening)
 Timber Thickness min. 51[2.01]
 Aluminium Cladding max. 18[0.71]



Flush bolt Position

see page 2 for flush bolt location for all configurations, router available

Install flush bolt to panel

PANEL	FLUSH BOLT
PH ≤ 2200 [86.6]	456R
2200 [86.6] ≤ PH ≤ 2440 [96.1]	456RL
2440 [96.1] ≤ PH ≤ 2740 [107.9]	456RLX-600
2740 [107.9] ≤ PH ≤ 3300 [129.9]	456RLX-1000

FLUSH BOLT	X
456R	190 [7.48]
456RL	450 [17.72]
456RLX-600	600 [23.62]
456RLX-1000	1000 [39.37]

For square flush bolts
chisel out corners

Counter bore
for lockable
flush bolts

Install flush bolt keeper to sill

KEEPER

DUST BOX

8 [0.32]

30 [1.81]

Mark where flush bolt throw strikes and notch out hollow for dust box

Extended keeper available

Optional Security Aligner 199SS aligns panel to seal perimeter, secures against lifting

Installation

PIVOT PANEL

END PANEL

JAMB

PANEL CENTRE

3 [0.12]

42 [1.65]

65 [2.56]

29 [1.14]

6 [0.24]

JAMB MOUNT

SOCKET

PIVOT PANEL

REBATE

PIVOT PANEL

JAMB

6 [0.24]

TT

PT

AC

28 [1.10]

25 [0.98]

EQ

EQ

ROUTE DETAIL

JAMB $X = \frac{1}{2} TT + 6 [0.24]$

Can be installed on either pivot or end panel, Minimum TT = 51 [2.01]

Adjustment

JAMB MOUNT NOSE

Wind nose of jamb mount away from jamb until panel is pulled in to seal perimeter when closed

Optional Jamb Pivot BW189A

Installation

PIVOT PANEL

END PANEL

JAMB

HINGE

PIVOT PANEL

JAMB MOUNT

PIVOT PANEL

REBATE

PIVOT PANEL

JAMB

6 [0.24]

PT (AC + TT)

8 [0.32]

X

JAMB $X = PT + 14 [0.55]$

Hinge assembly aligned with other centre hinges

Ø12 [0.47]

28 [1.10]

11.5 [0.45]

6.5 [0.26]

6 [0.24]

Adjustment

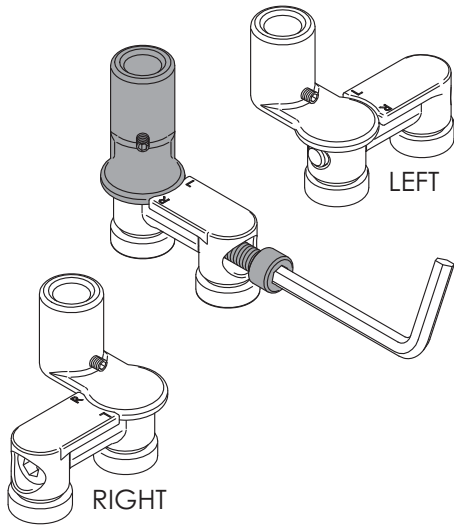
JAMB PIVOT BOLT

Wind jamb pivot bolt in or out until it aligns with hinge on panel after top and bottom pivot are set

End Guide

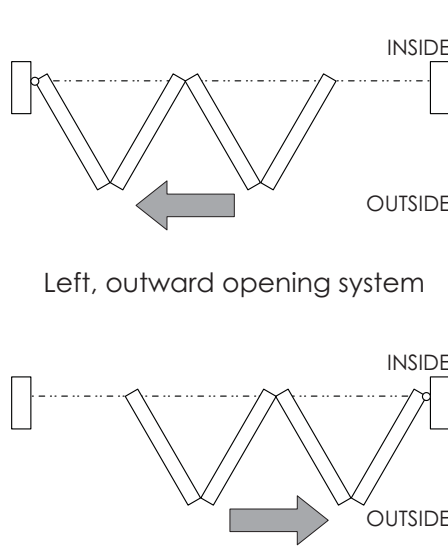
when viewed from outside doors folding left need a left end guide and vice versa for right

Handing End Guide



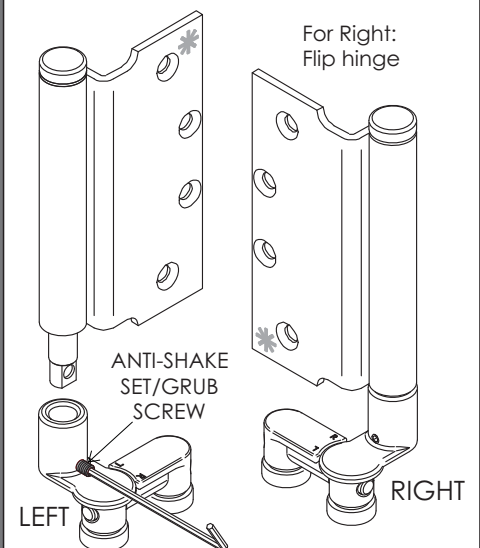
Back off cap screw and rotate guide arm into left or right position

Determining System Orientation



Left, outward opening system
Right, outward opening system

Handing end set hinge

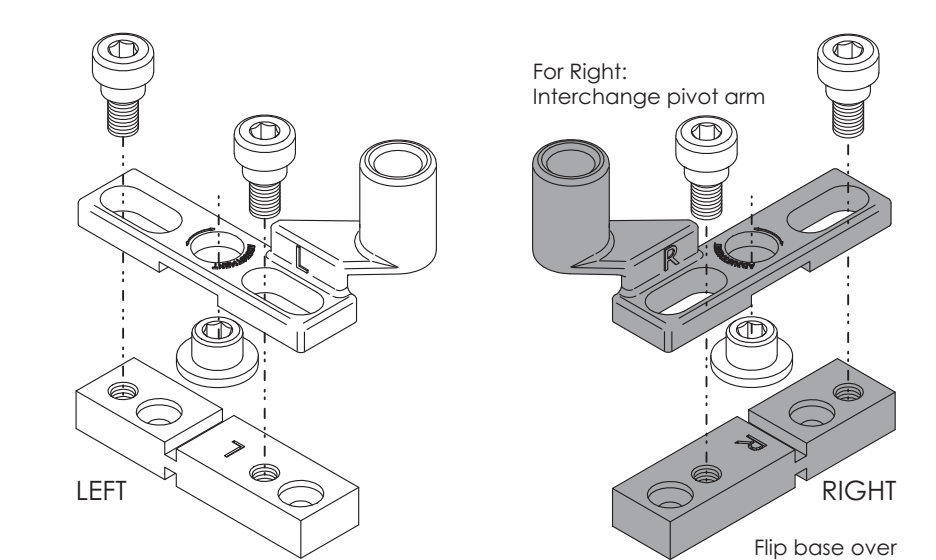


Lock off anti-shake set/grub screw

Bottom Pivot

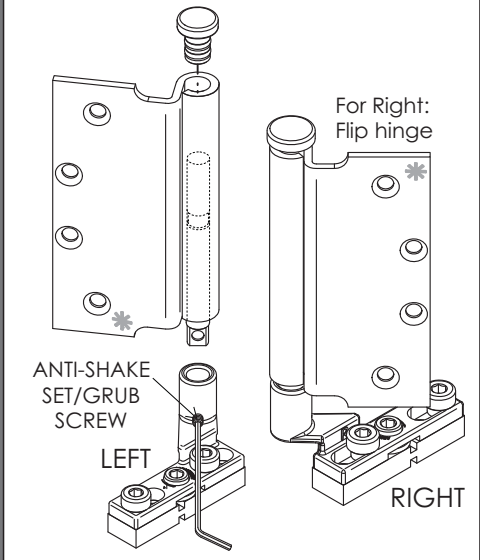
when viewed from outside doors folding left need a left pivot and vice versa for right

Handing Bottom Pivot



Secure assembly by locking off cap screws

Handing pivot set hinge

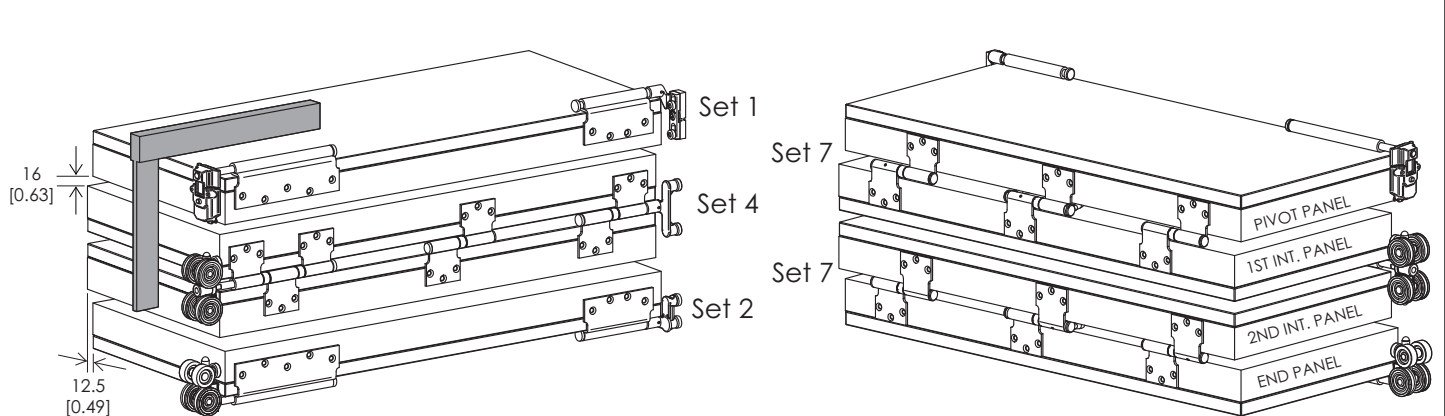


Lock off anti-shake set/grub screw

Attaching Hardware to Panels

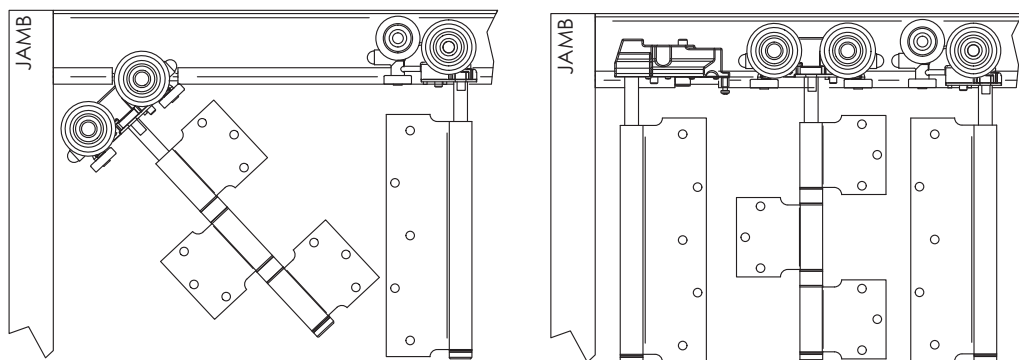
recommended before installation

Ensure doors are level and square from top

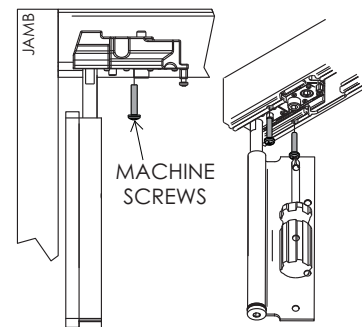


Installing Hardware and Hanging Panels clean down inside of track and channel

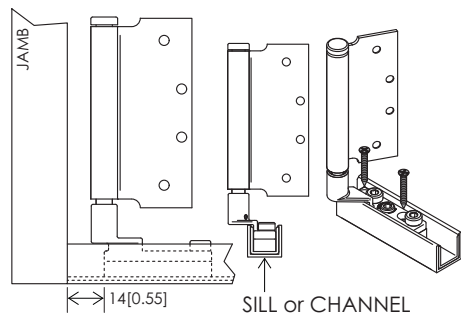
Viewed from outside, insert rollers through access notch in correct order



Fix top pivot into position with machine screws supplied

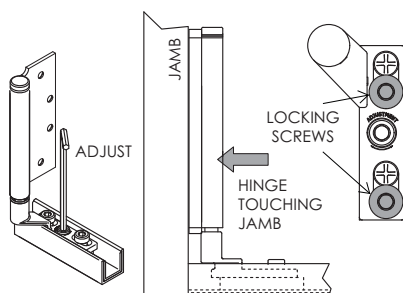


Place bottom pivot in channel

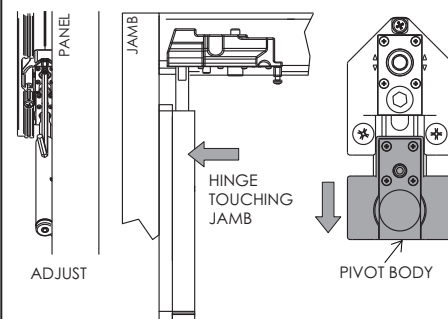


Screws pass through assembly

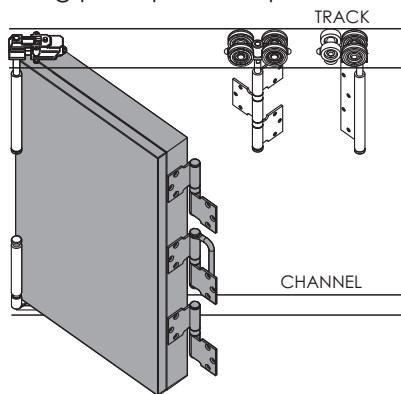
Loosen locking screws and adjust bottom pivot so that hinge is touching the jamb. Lock off when in position.



Loosen locking screw and adjust top pivot so that hinge is touching the jamb. Lock off when in position.

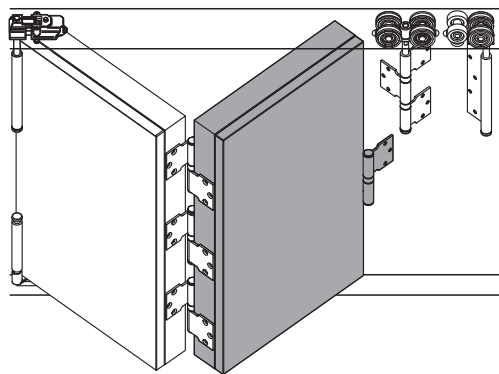


Bring pivot panel to pivot set



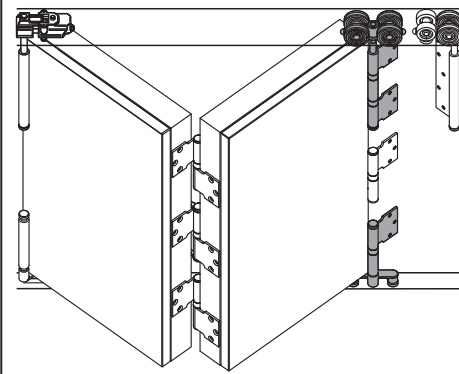
Hinge set 7 attached to panel

Bring 1st int. panel to pivot panel



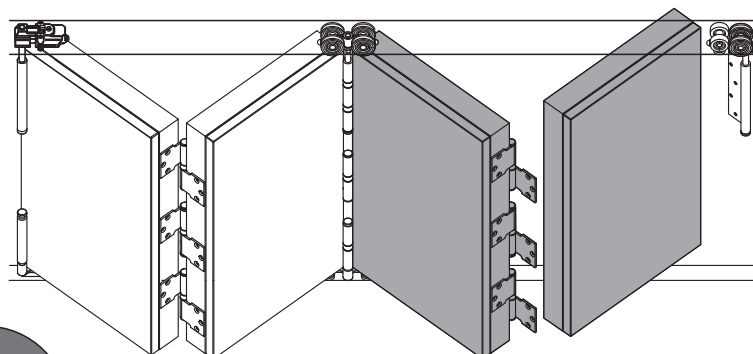
Middle hinge of int. set attached

Fix int. hanger to int. panel



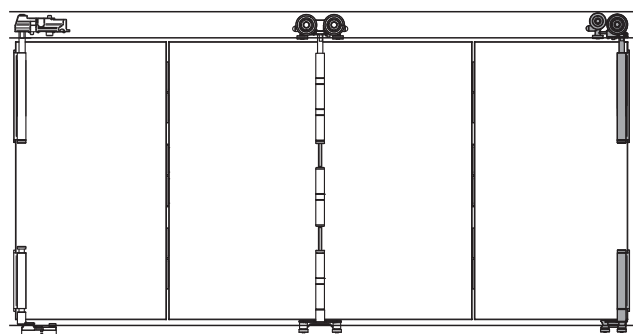
Attach int. guide to int. panel

Bring 2nd int. panel to the int. set with hinge set 7



Bring end panel to hinge set 7

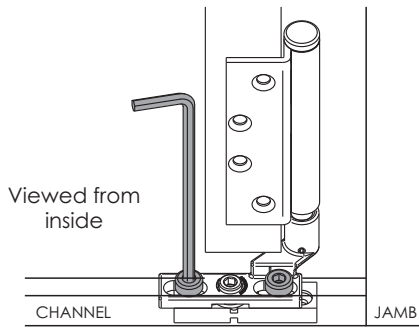
Fix end panel to end hanger



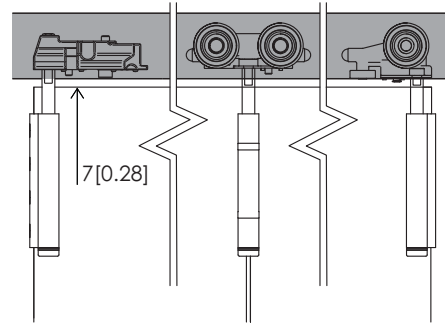
Attach end guide to end panel, close all panels

Adjustment hinge pin locking mechanism applied to all hangers and top pivot

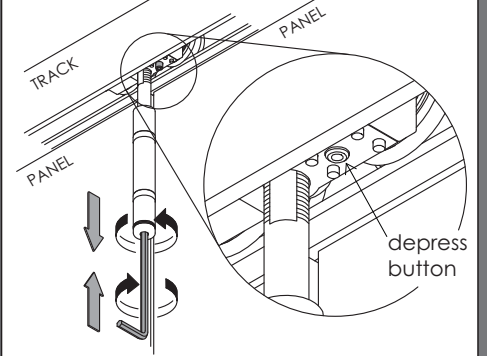
Now that the doors are in place, open doors and loosen locking screws.



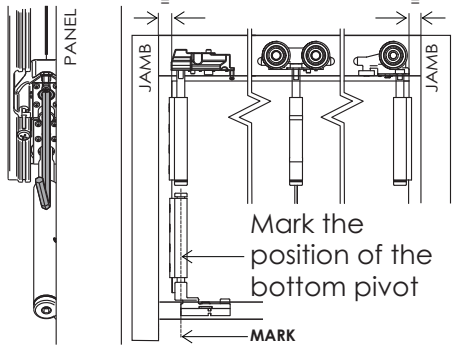
Adjust all hangers and top pivot until panels are parallel with 7mm gap between the track



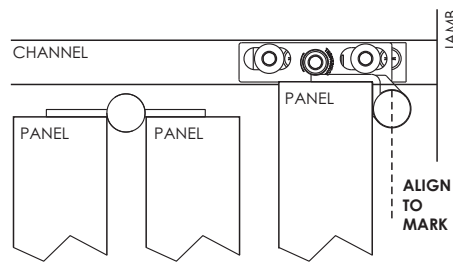
To adjust height, depress button and wind bolt. Bolt locks off automatically on flats.



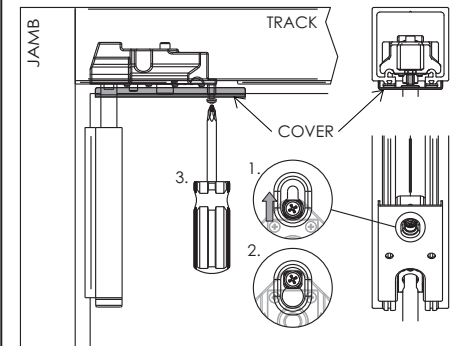
With the panels closed, loosen top pivot locking screw and adjust to centralise door panels. Then lock off top pivot and mark the position of the bottom pivot



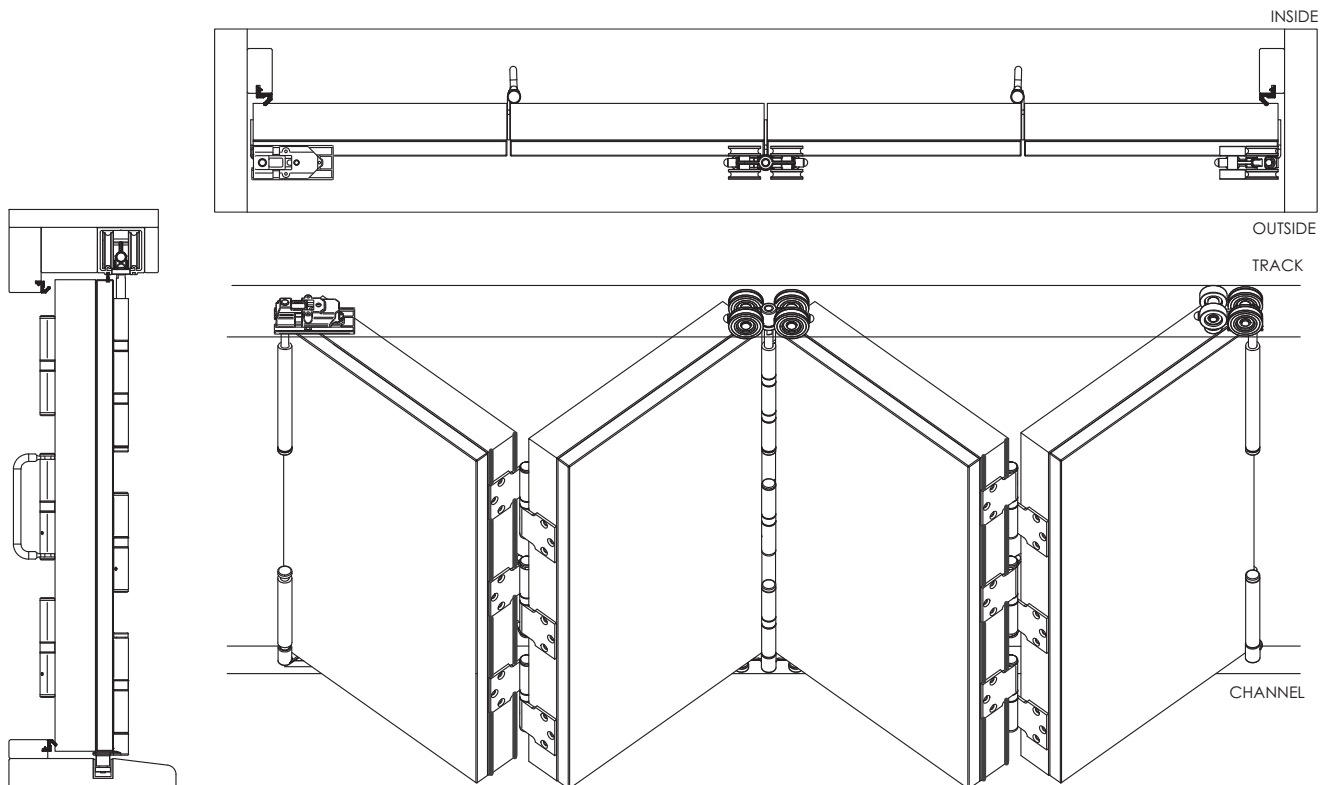
Open the panels and adjust the bottom pivot to the mark. Then tighten locking screws



Fix cover into pivot to cover notch. Cover to go against jamb, do not over tighten.



System Overview



Care and Maintenance

Hardware is subject to deterioration from everyday use and from the environment that it is in. In particular, it is important that routine maintenance be carried out in harsh coastal or marine environments and industrial applications.

General

Inspect all fixing bolts for tightness every six months, including those securing brackets. Tighten if necessary. Routinely check for wear and if excessively worn, the part should be replaced.

To help prevent surface corrosion, Brio® recommends washing regularly; even stainless steel finishes in coastal environments may show signs of surface corrosion if not washed regularly. Sheltered areas that are not rain washed are particularly susceptible. Wash with soap or mild detergent and warm water followed by rinsing with clean cold water and wipe dry.

As a guide, if a window or door requires washing then wash the hardware, however Brio® recommend for marine and industrial environments washing a minimum of every 3 months and 6 months for general environments. In coastal or marine environments Brio® recommends applying a light application of corrosion preventative such as CRC Marine 66 or Inox® for Marine, to all surfaces and using a dry cloth to remove excess. When using lubricant or corrosion protection compounds, be careful to avoid the adjacent surfaces and always follow the manufacturer's instructions.

Track

Keep track free from obstruction and excessive dirt or water. Visible surfaces should be cleaned using a damp cloth and mild detergent, then wiped dry.

Where fitting to the outside of the building, it is recommended that the appropriate track is specified.

Hangers & Pivots

All hangers are fitted with lubricated ball-bearings or plain bearings, requiring no greasing. If doors 'settle' and door clearance is reduced causing friction, raise the door by the hanger adjustment nuts.

Wash as per the above recommendation and apply a light application of corrosion preventative to all surfaces, using a dry cloth to remove excess.

Guides

Guide roller and guide channel must be kept clear and free of obstructions.

Wash as per the above recommendation and apply a light application of corrosion preventative to all surfaces, using a dry cloth to remove excess.

Rollers

All bottom rails should be free from obstruction and excessive dirt or water. Visible surfaces should be cleaned using a damp cloth and mild detergent, then wiped dry. All rollers are fitted with sealed precision bearings requiring no maintenance.

Hinges

Visible surfaces should be cleaned using a damp cloth and mild detergent, then wiped dry. Apply a light application of corrosion preventative to all surfaces, using a dry cloth to remove excess. Repeat at intervals no greater than 3 months.

Flush Bolts

Visible surfaces should be cleaned using a damp cloth and mild detergent, then wiped dry. Apply a light application of lubricant to internal mechanisms and bolt using a suitable nozzle-spray.