Brio Weatherfold 4c 75

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Codes

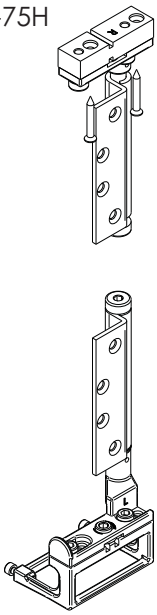
B WC 1 - 75 S H SS

- Finish: SS (Satin Stainless), PS (Polished Stainless)
- Hinge Type: See section Hinge Installation (page 5)
- Bearing Type: S (Stainless Steel Bearing)
- Load Capacity: 75kg (165lbs)
- 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)

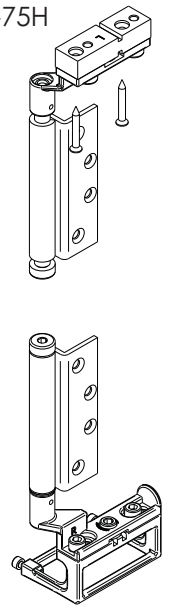
Brio Weatherfold 4c

Sets all sets shown with hinge type H. No finishes shown.

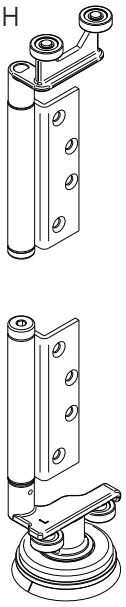
BWC1L-75H



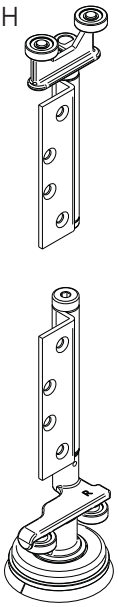
BWC1R-75H



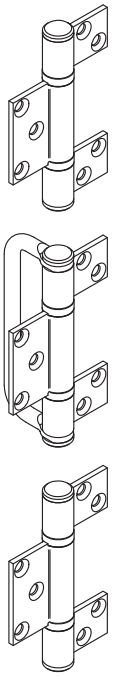
BWC2L-75SH



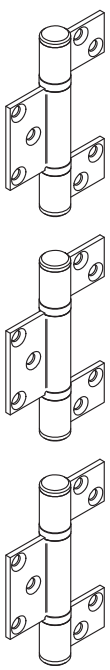
BWC2R-75SH



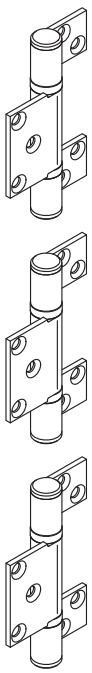
BW3-100H



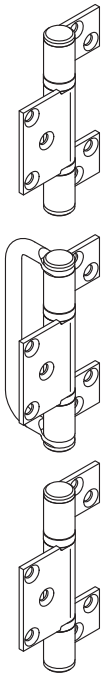
BW5-100H



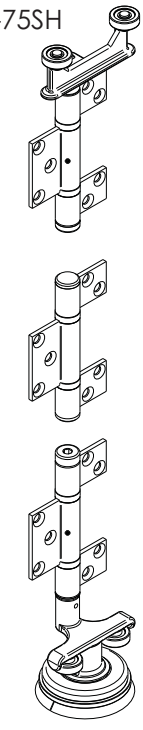
BW6-100H



BW7-100H

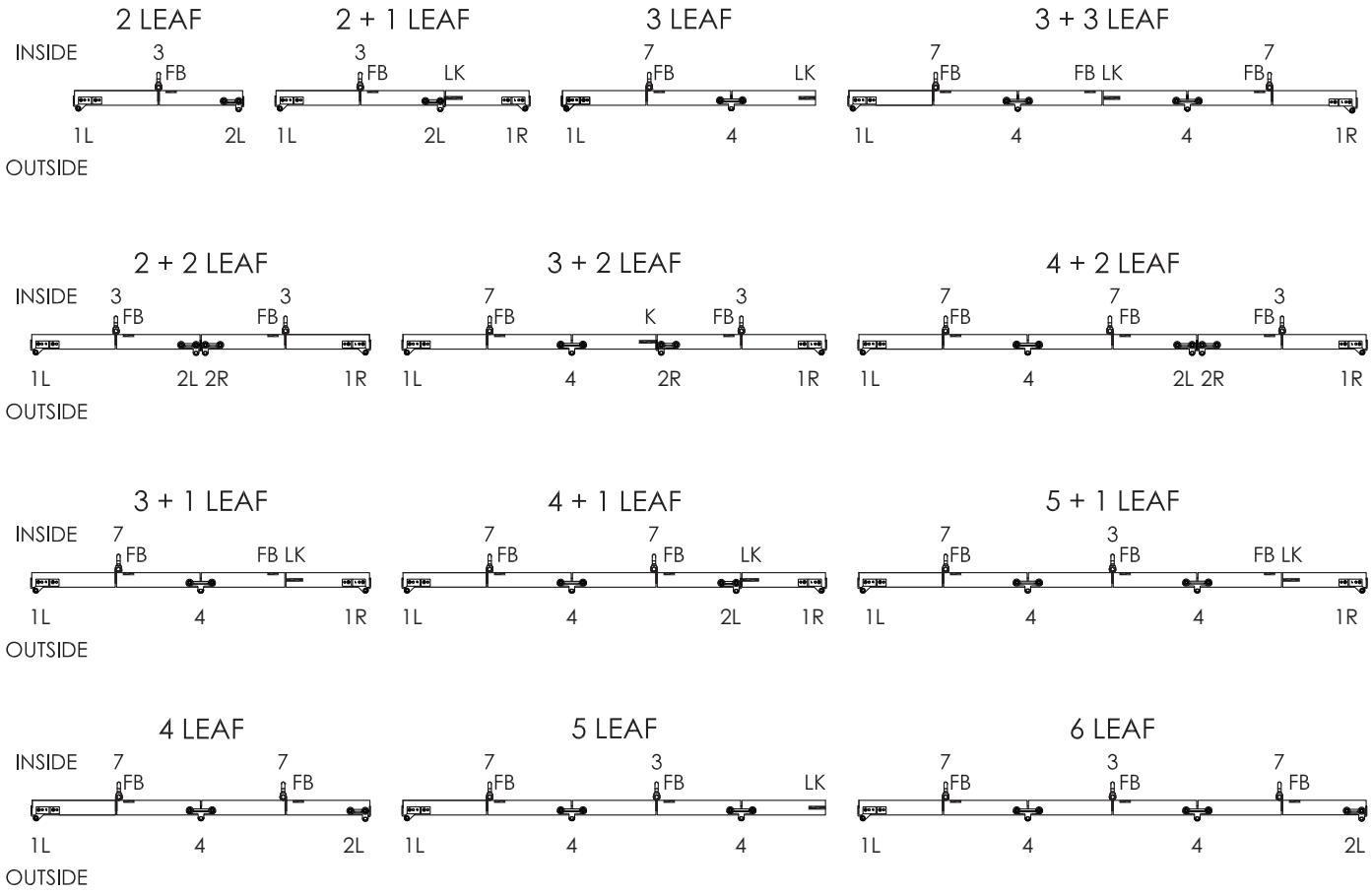


BWC4-75SH

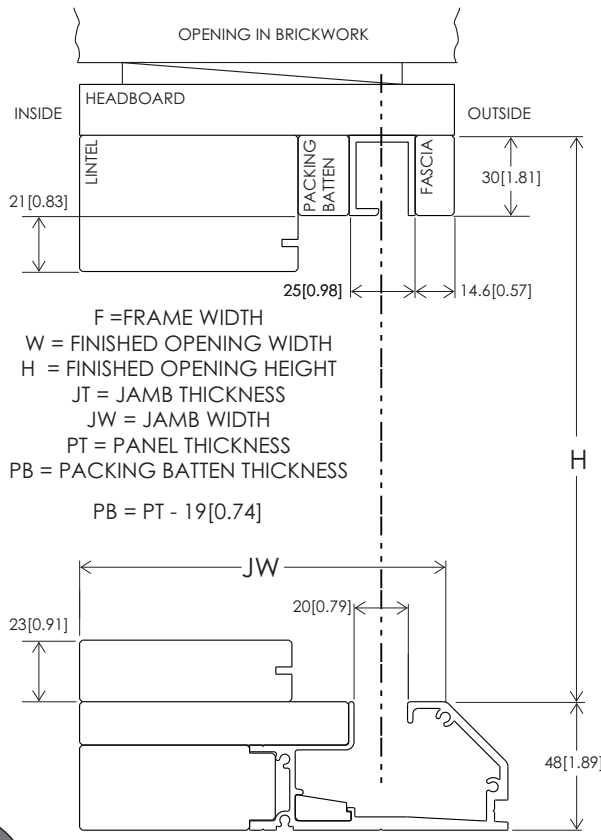


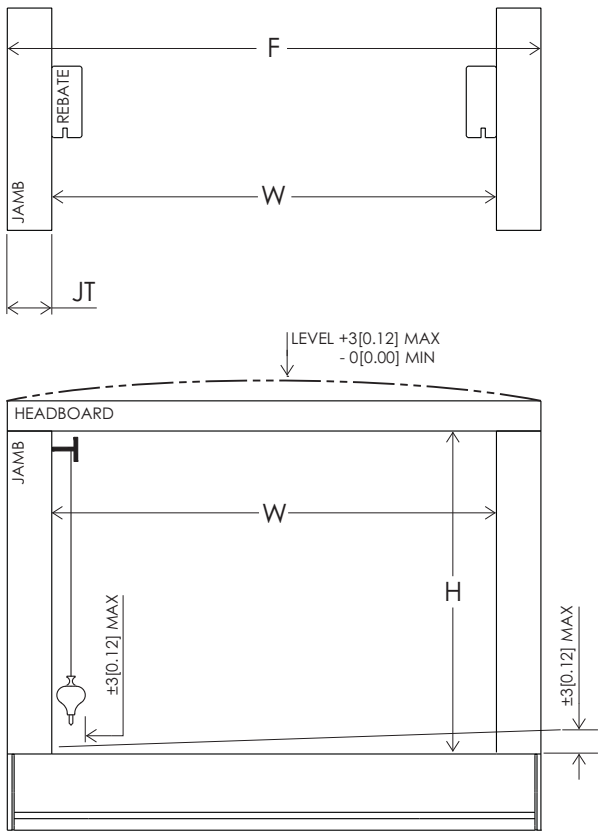
Door Hardware Set Orientation FB = Flush Bolt, FP = Flush Pull, LK = Lock, L = Left, R = Right

OUTWARD OPENING



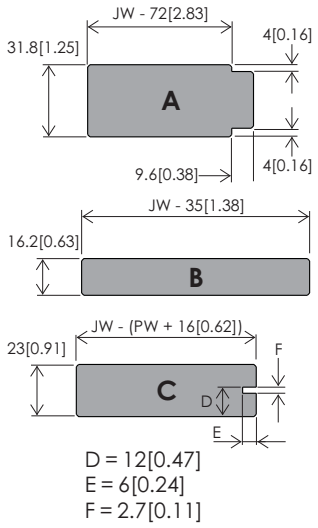
Opening Preparation outward opening system shown, dimensions shown in mm[inches]





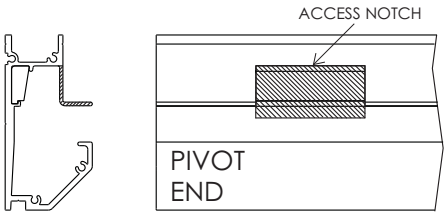
Sill Preparation and Installation

Cut Timbers to length.
A = W (Finished opening width)
B & C = F (Frame Width)-6[0.24]

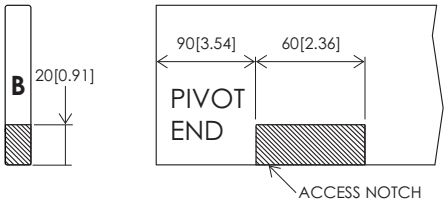


D = 12[0.47]
E = 6[0.24]
F = 2.7[0.11]

Cut Sill to length.
'F' (Frame width) - 6[0.24]

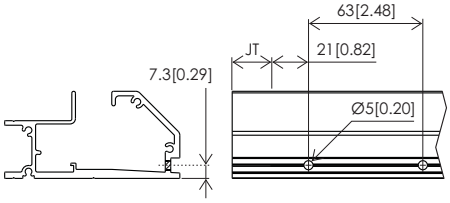


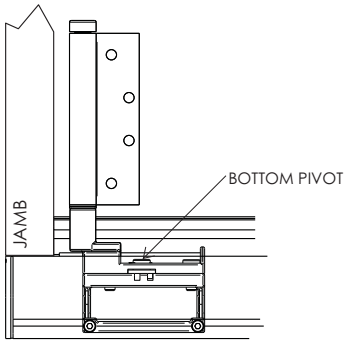
Sill pre-notched to allow access to bottom rollers



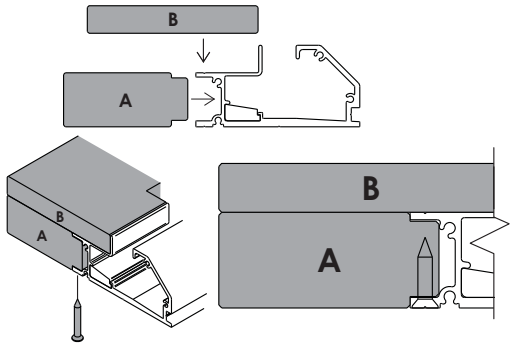
Notch Timber (B) to allow access to bottom rollers

Pre drill holes for Bottom Pivot



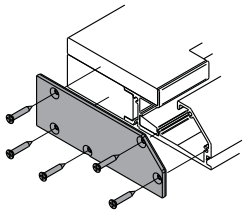


Fix Timbers to Sill with building adhesive

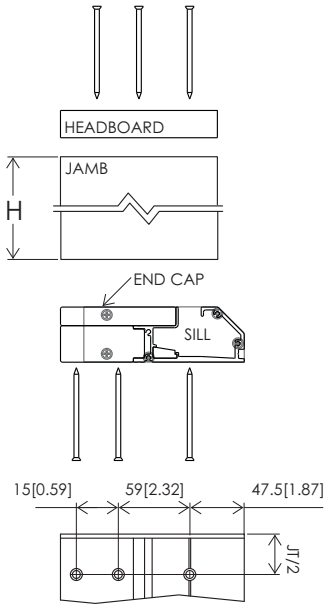


Screw fix Timber A with 8G x 19 Screws

Screw fix End Caps to Sill

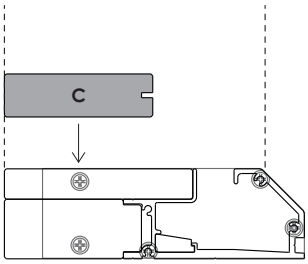


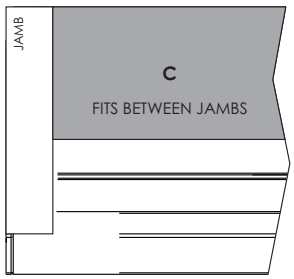
Screw fix Frame



Drill holes Ø3 and countersink

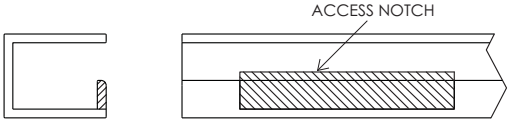
Fix Timber C to Sill with pins





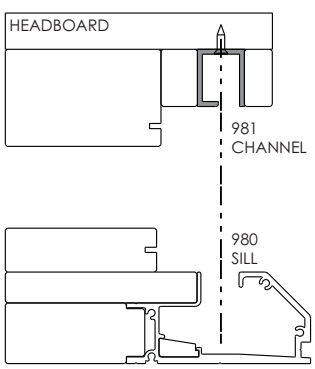
Channel Preparation and Installation

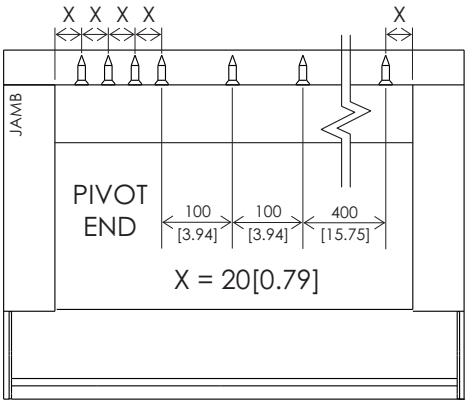
Cut Channel to length 'W'(finished opening width).



Channel pre-notched to allow access for top guides and pivot.

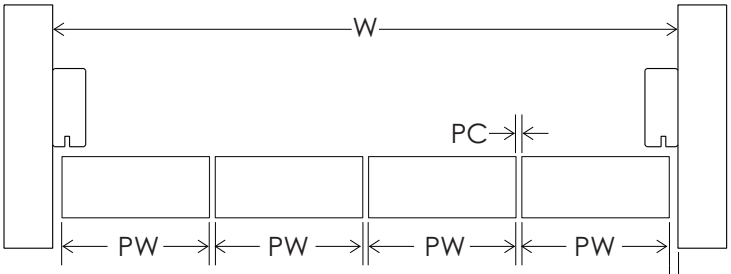
Fix channel with 8G screws. After initial 6 fixings, fix screws at 400[15.75] intervals.





Panel Size Calculation

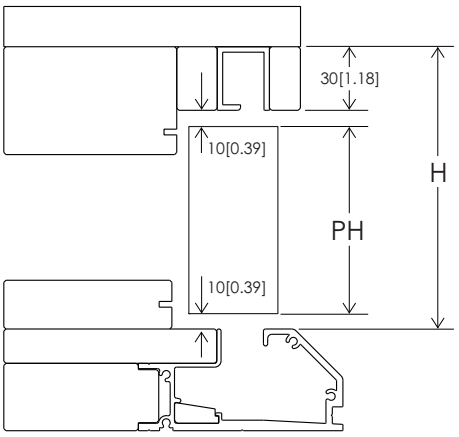
Brio Weatherfold 4c allows for equal size panels



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

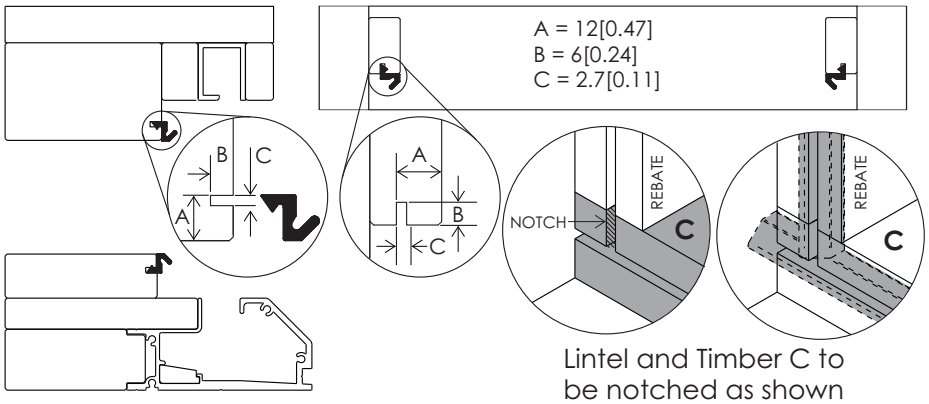
$$PW = \frac{W-[PC(N-1) + 2(JC)]}{N}$$

PH (Panel Height) = H - 50[1.96]



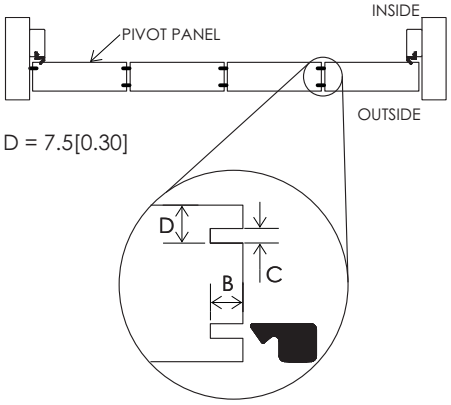
Seal Preparation left, outward opening system shown

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



Lintel and Timber C to be notched as shown

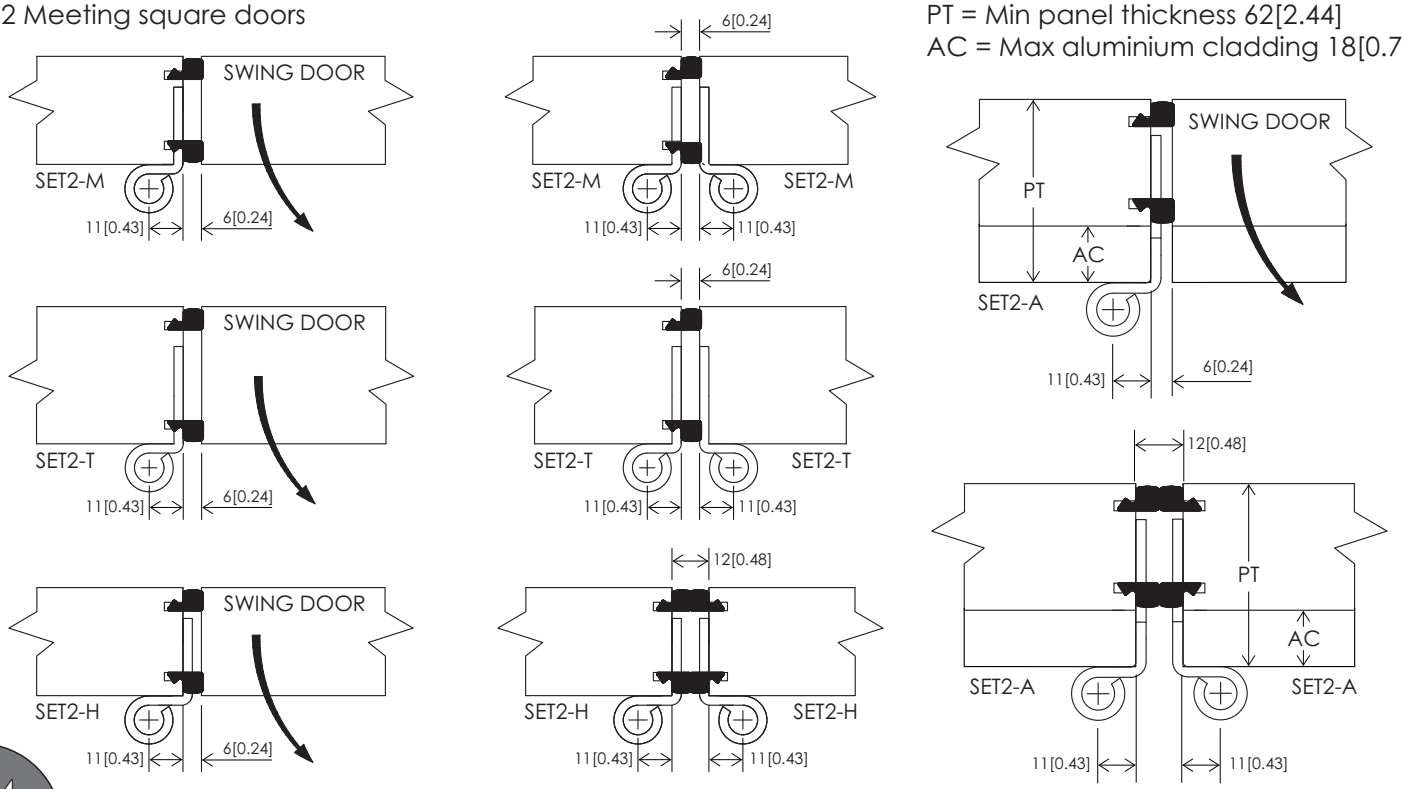
Panel - AQ63



Meeting Door Selection

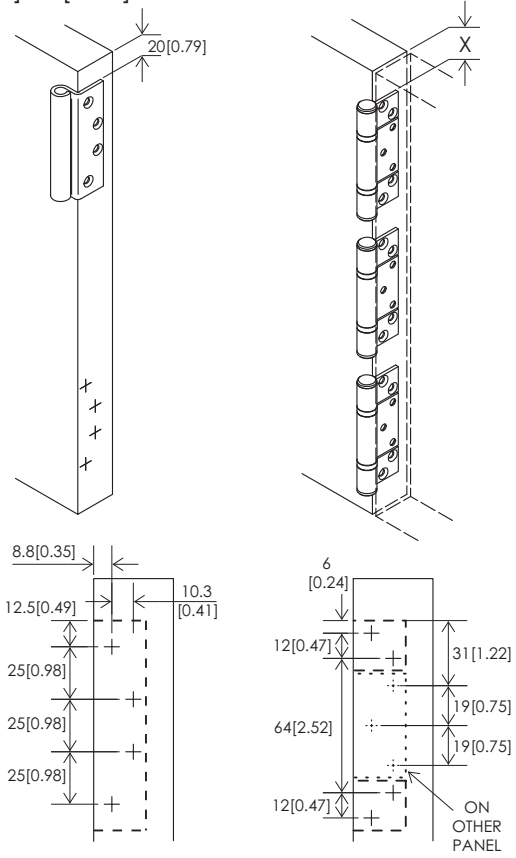
2 Meeting square doors

PT = Min panel thickness 62[2.44]
AC = Max aluminium cladding 18[0.71]



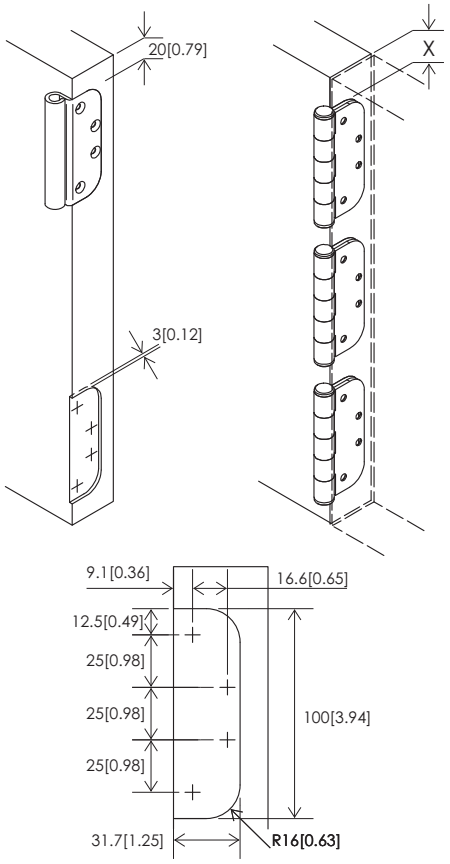
Hinge Installation pilot hole of Ø2.5mm[0.12"] recommended

Non-mortice H
35[1.38]-68[2.68] Panel Thickness



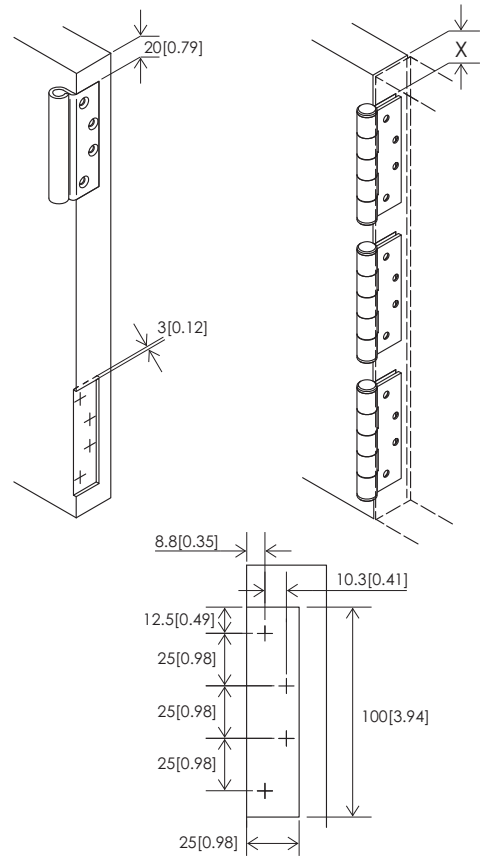
X=20[0.79] on Set 4
X=60[2.36] min on Sets 3, 5, 6 & 7
Drilling jig available for H Sets

Mortice Radius Corner T
44[1.73]-68[2.68] Panel Thickness



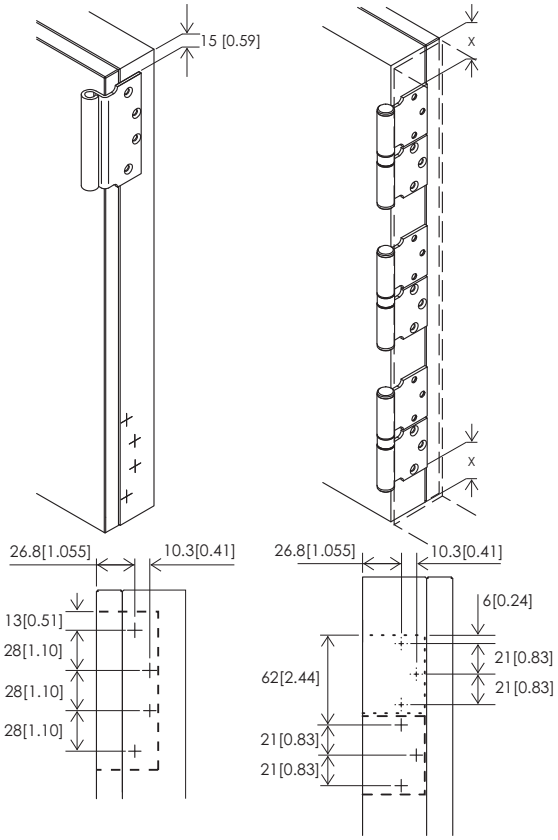
X=20[0.79] on Set 4
X=60[2.36] min on Sets 3, 5, 6 & 7

Mortice Square Corner M
35[1.38]-68[2.68] Panel Thickness



X=20[0.79] on Set 4
X=60[2.36] min on Sets 3, 5, 6 & 7

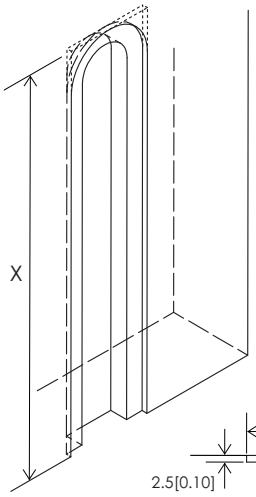
Non-mortice Composite A
62[2.44]-86[3.39] Panel Thickness
Aluminium Cladding max. 18[0.71]



X=15[0.59] on Set 4
X=60[2.36] min on Sets 3, 5, 6, & 7

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

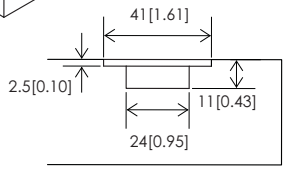
Install flush bolt to panel

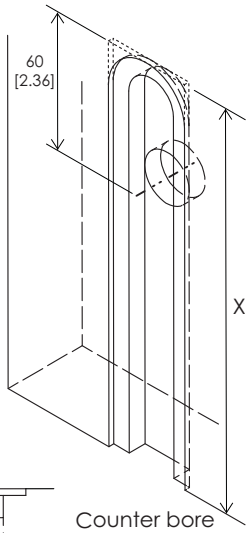


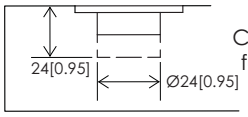
PANEL	FLUSH BOLT
PH≤2200[86.6]	456R
2200[86.6]≤PH≤2440[96.1]	456RL
2440[96.1]≤PH≤2740[107.9]	456RLX-600
2740[107.9]≤PH≤3300[129.9]	456RLX-1000

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

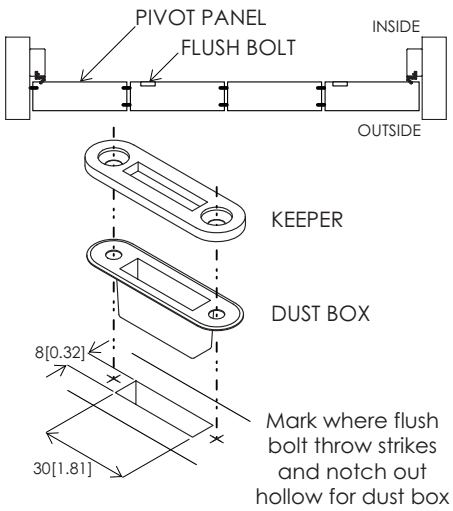






Counter bore for lockable flush bolts

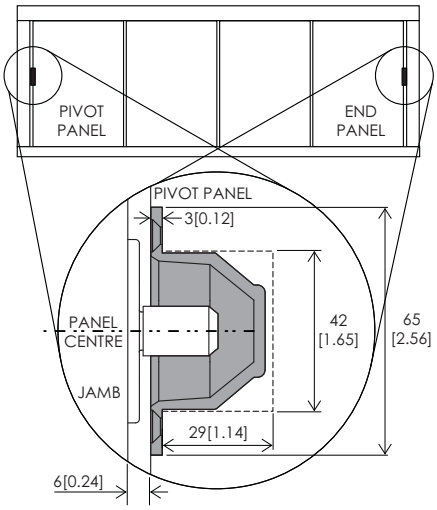
Install flush bolt keeper to sill

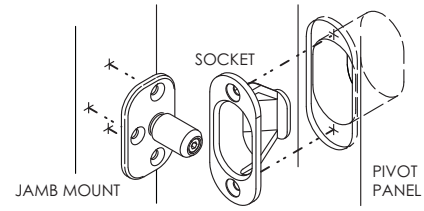


Extended keeper available

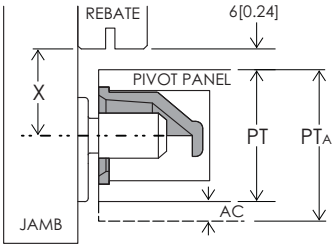
Optional Security Aligner 199SS aligns panel to seal perimeter, secures against lifting

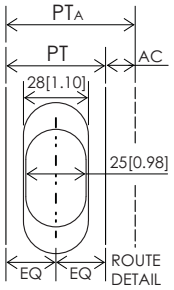
Installation





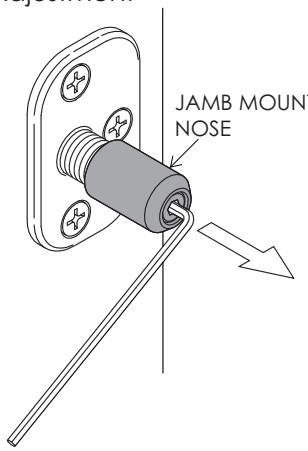
X (H, M & T Type) = ½(PT) + 6[0.24]
X (A Type) = ½(PTA-AC) + 6[0.24]





Can be installed on either pivot or end panel.
H, M, T type Hinges Min PT = 38[1.50], A type Hinges Min PTA = 62[2.44]

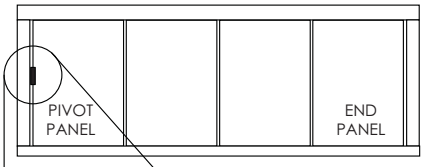
Adjustment

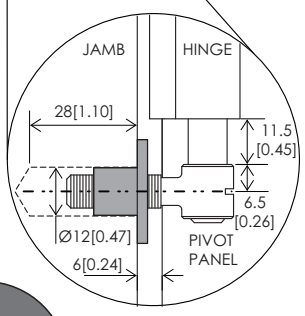


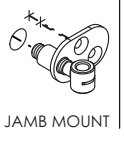
Wind nose of jamb, mount away from jamb until panel is pulled into seal perimeter when closed

Optional Jamb Pivot BW189 type H & A types shown but all hinge types available

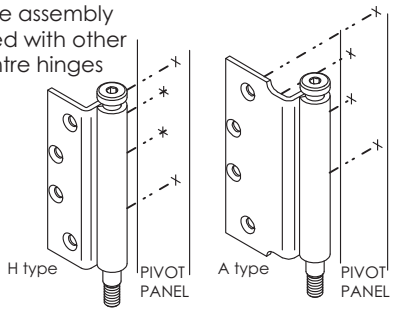
Installation



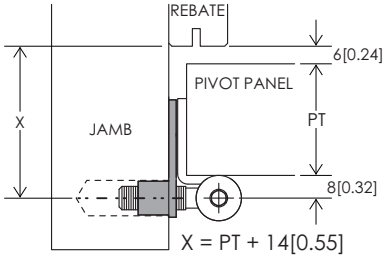




Hinge assembly aligned with other centre hinges

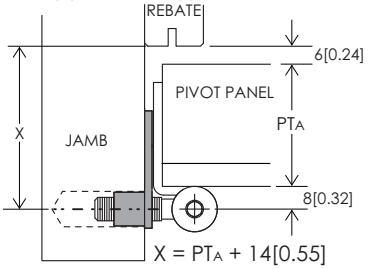


Applies to H, M, T type



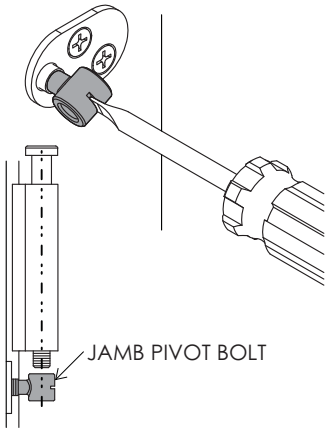
X = PT + 14[0.55]

Applies to A type



X = PTA + 14[0.55]

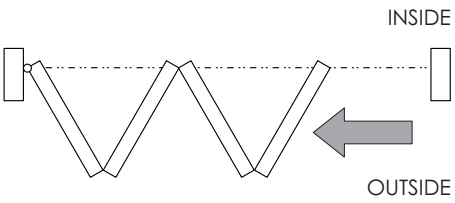
Adjustment



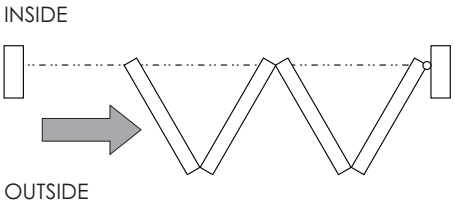
Wind jamb pivot bolt in or our until it aligns with hinge on panel after top and bottom pivot are set

Handing Sets when viewed from outside doors folding left need both left sets, and vice versa for right

Determining System Orientation

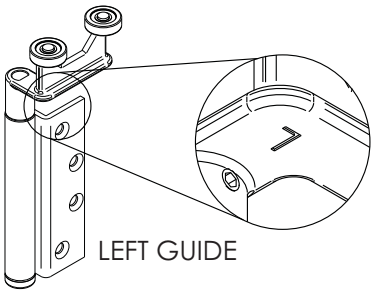


Left, outward opening system

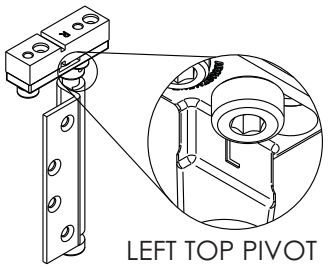


Right, outward opening system

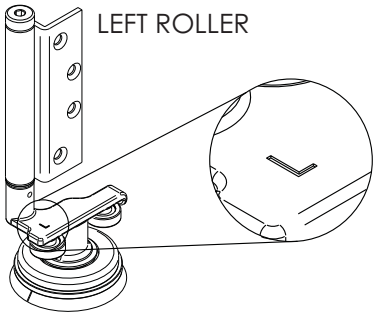
Handing Indicator shown in all left and right kits



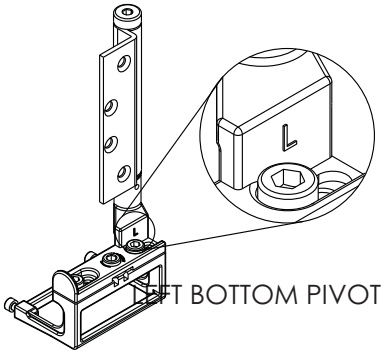
LEFT GUIDE



LEFT TOP PIVOT



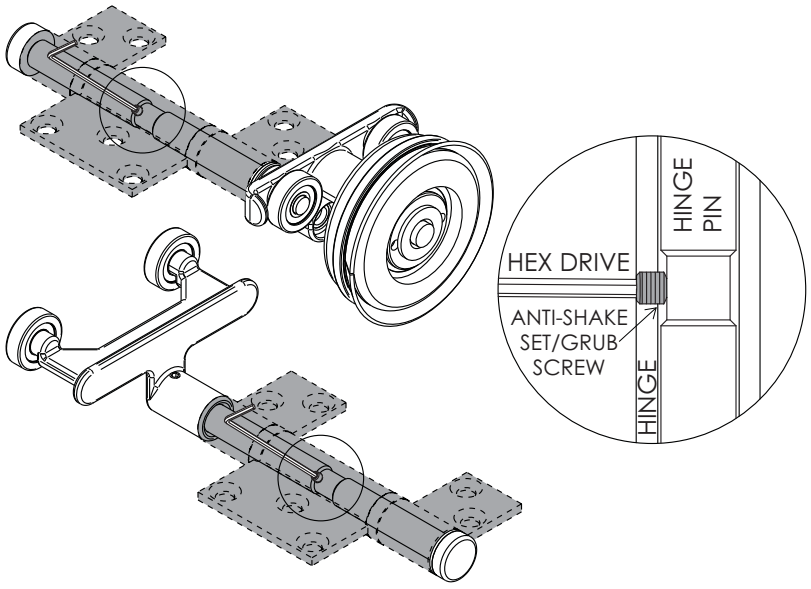
LEFT ROLLER



LEFT BOTTOM PIVOT

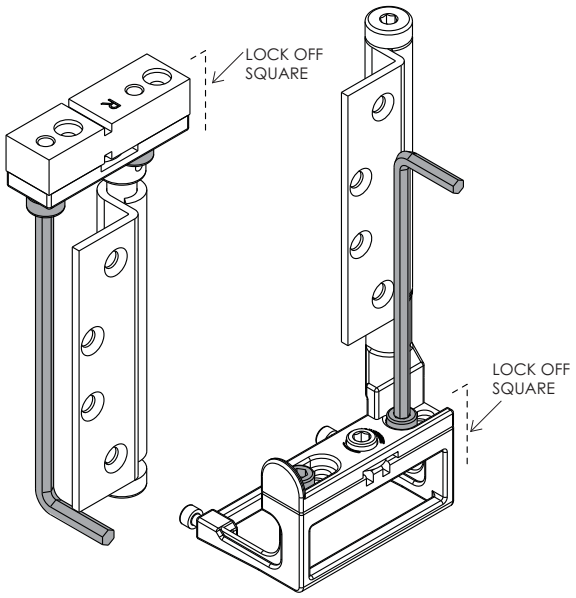
Hardware Features

Hardware security



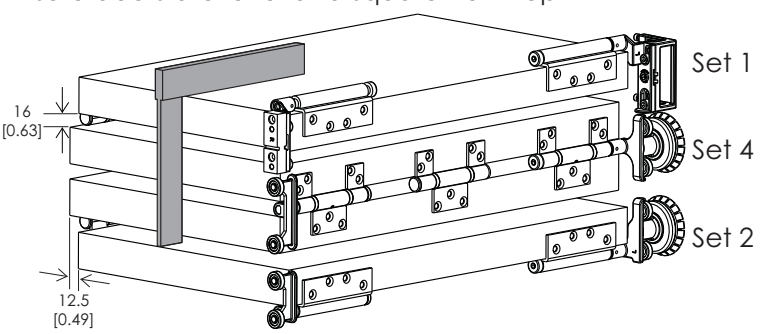
Type H hinge shown but security set/grub screw applicable for all (except A hinge types)

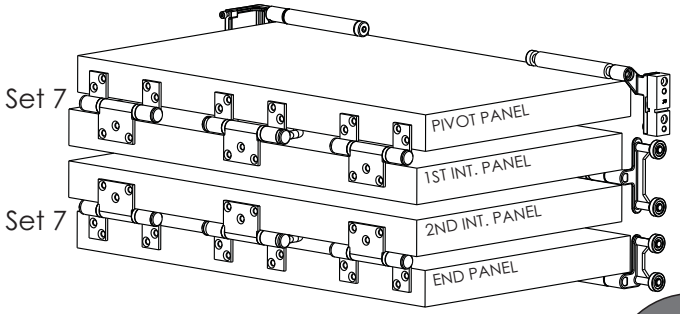
Secure Assembly by locking off cap screws



Attaching Hardware to Panels recommended before installation

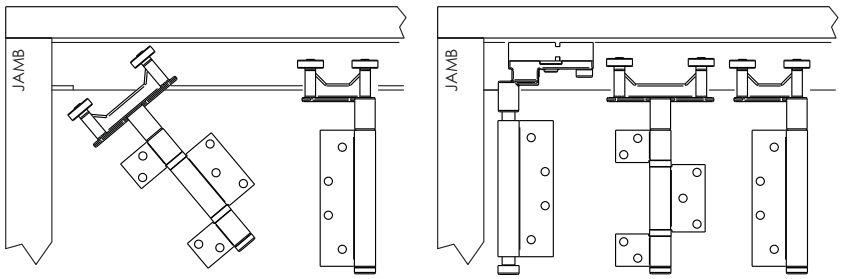
Ensure doors are level and square from top



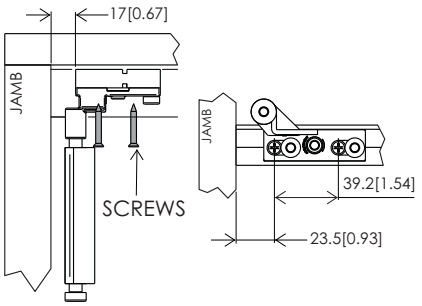


Installing Hardware clean down inside of sill and channel

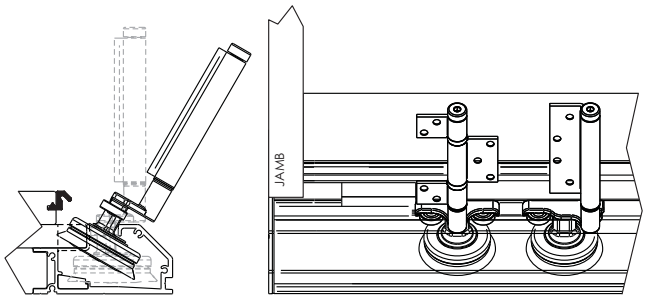
Viewed from outside, insert guides through access notch in correct order



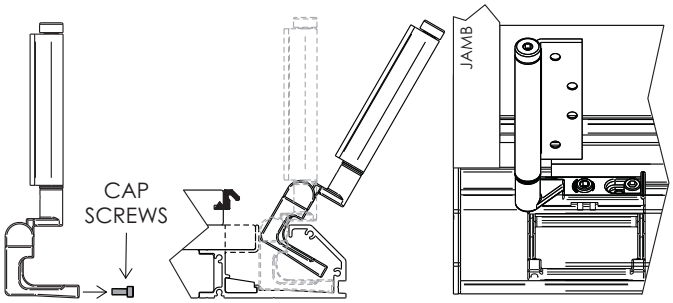
Screw fix top pivot into position



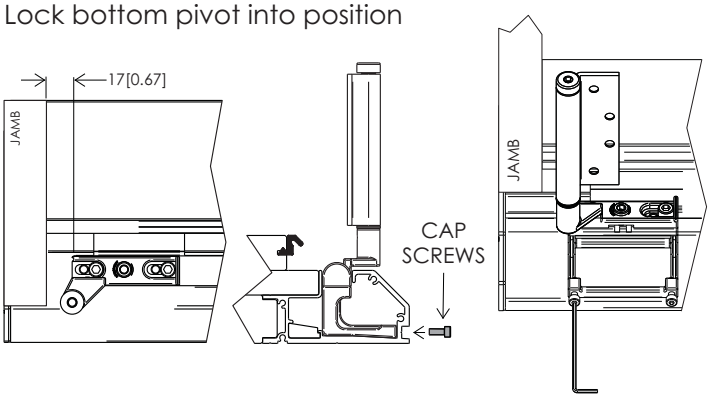
Insert rollers through access notch in correct order



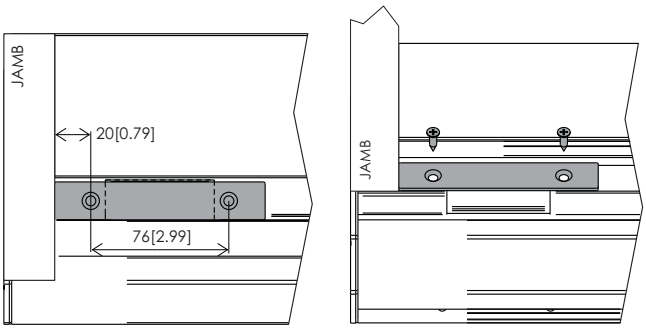
Remove cap screws from bottom pivot and insert



Lock bottom pivot into position

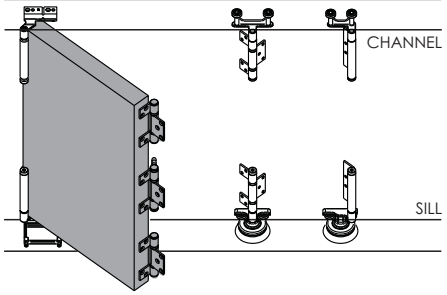


Screw fix dress plate to cover access notch



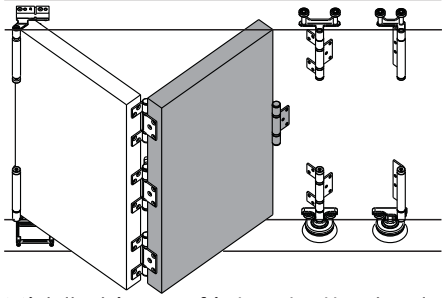
Hanging Panels

Bring pivot panel to pivot set



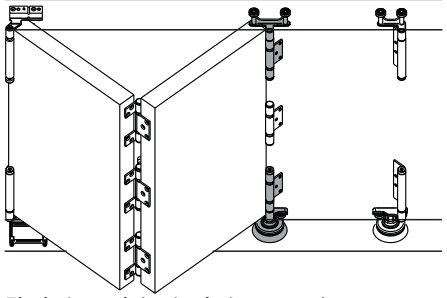
Hinge set 7 attached to panel

Bring 1st int. panel to pivot panel



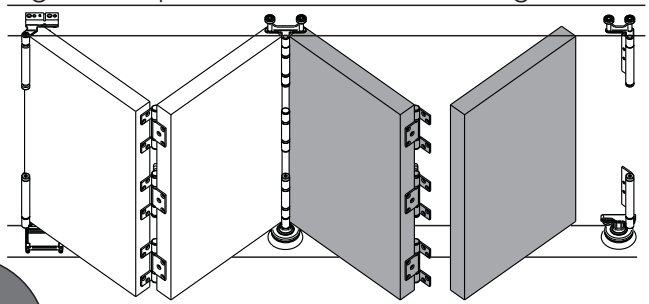
Middle hinge of int. set attached

Attach int. roller to int. panel



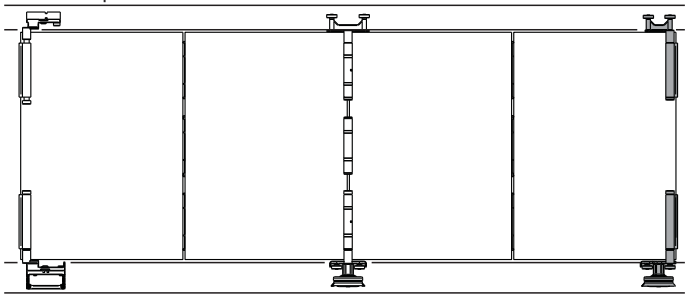
Fix int. guide to int. panel

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



Bring end panel to hinge set 7

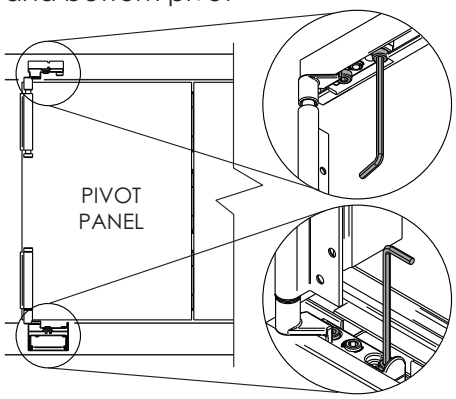
Fix end panel to end roller



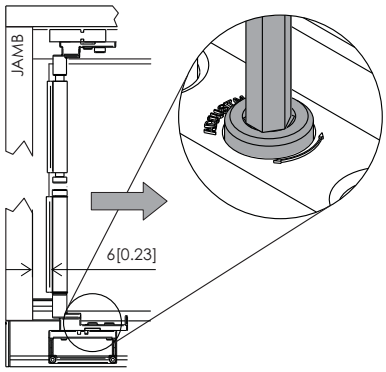
Attach end guide to end panel, close all panels

Adjustment

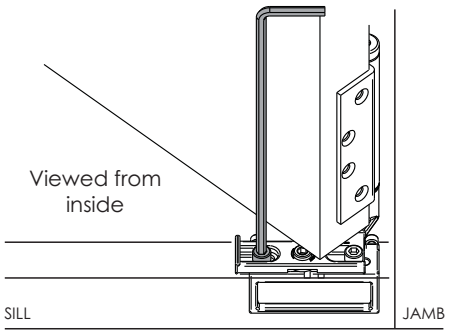
Loosen cap screws on the top and bottom pivot



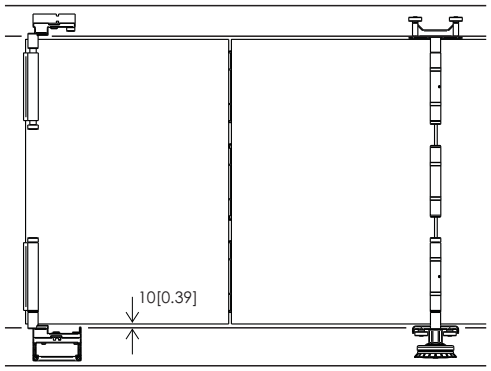
Adjust bottom pivot to allow 6[0.23] approx. between panel and jamb.



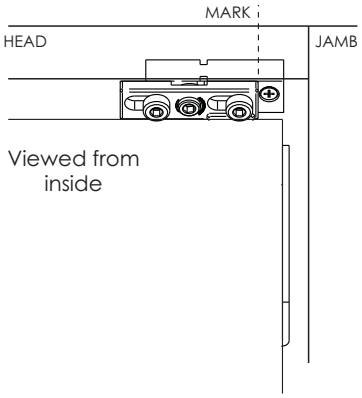
Partially open doors - lock off 1st cap screw. Open fully, lock off 2nd cap screw (bottom pivot only)



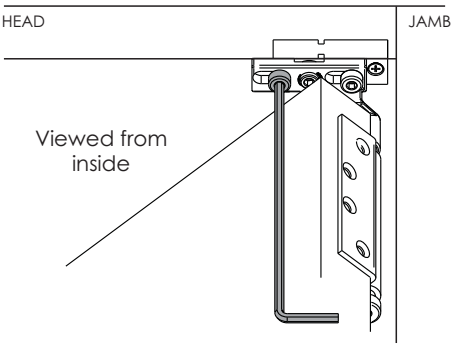
Close all doors and check clearance between panels and sill



Mark top pivot position

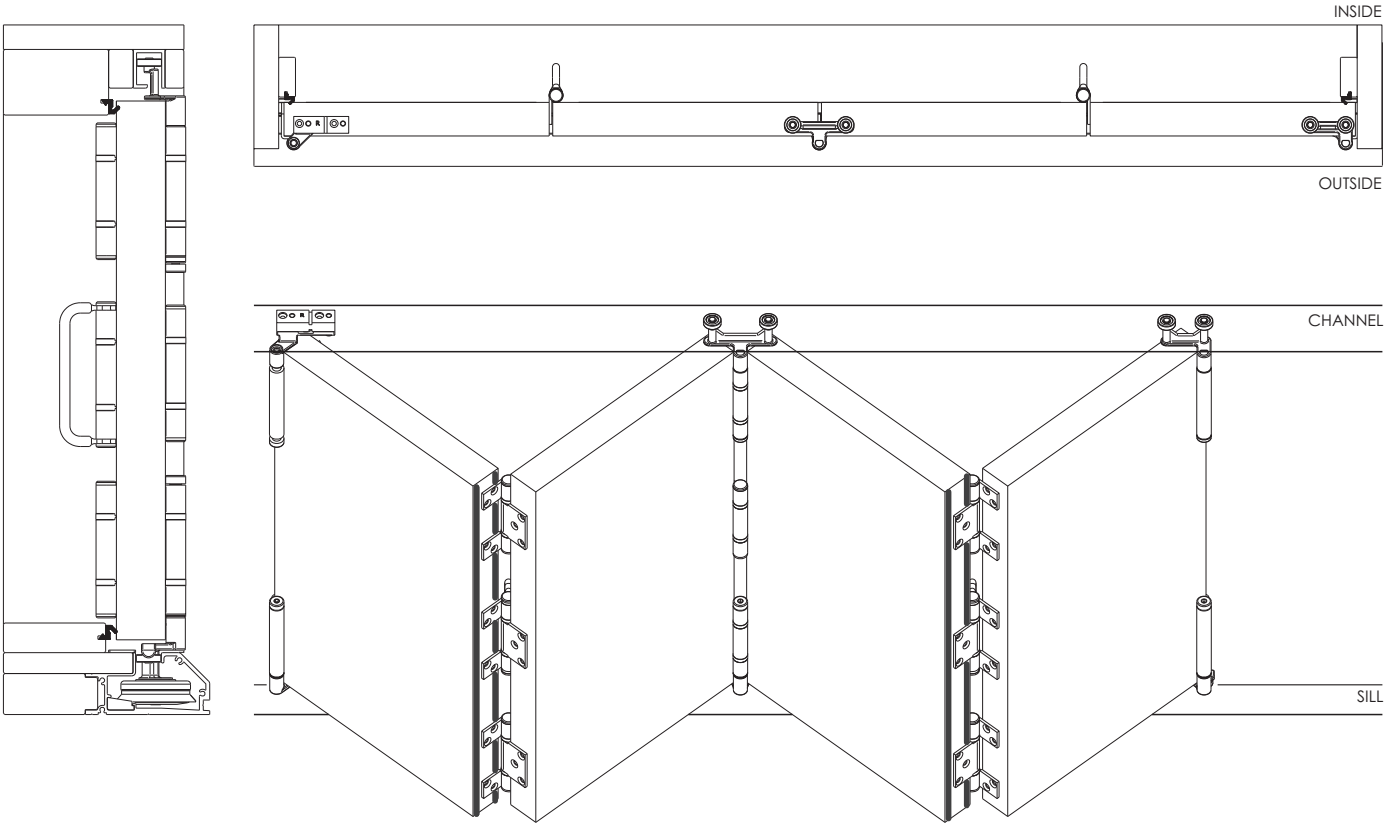


Partially open doors - lock off 1st cap screw



Open fully, lock off 2nd cap screw

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.

Rollers & Pivots

All Rollers are fitted with lubricated ball-bearings or plain bearings, requiring no greasing.

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.

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.