

Brio® Weatherfold 4s 150

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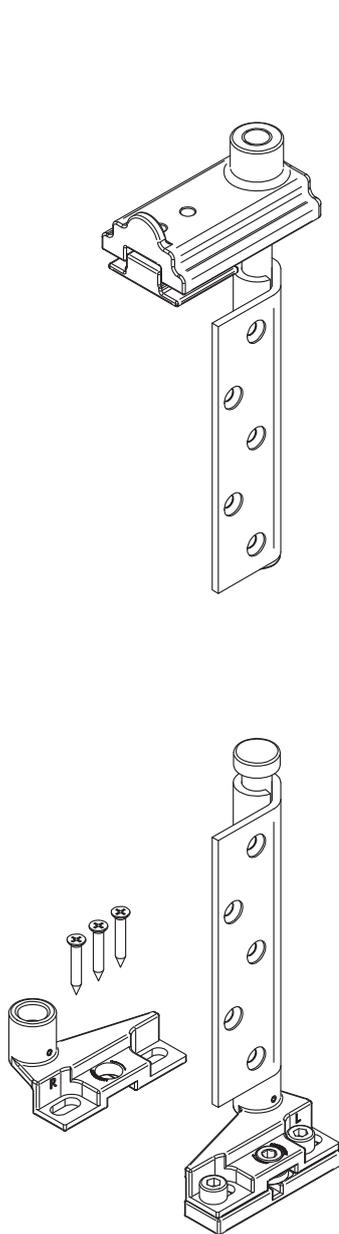
Codes

B WS 1 - 150 S H PR — Finish: PR (Physical Vapour Deposition Black), SS (Satin Stainless)
 — Hinge Type: See section Hinge Installation (page 5)
 — Bearing Type: S (Stainless Steel Bearing)
 — Load Capacity: 150kg (330lbs)
 — 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)

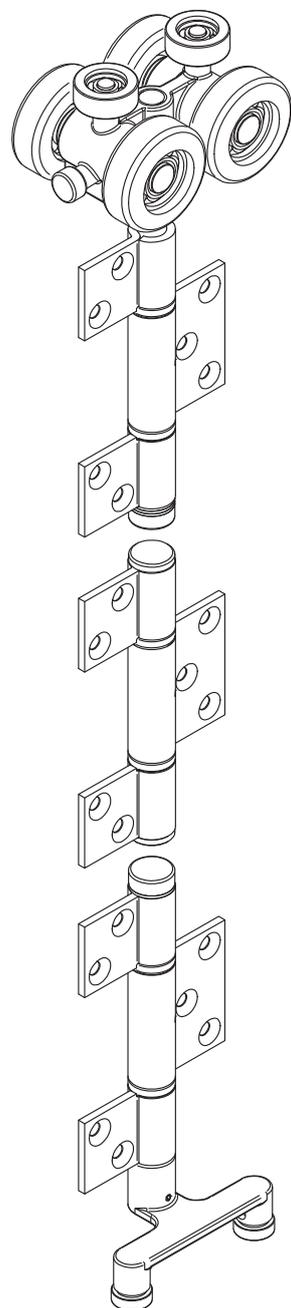
Brio Weatherfold 4s

Sets note codes do not show finish, hinge sets not shown to same scale

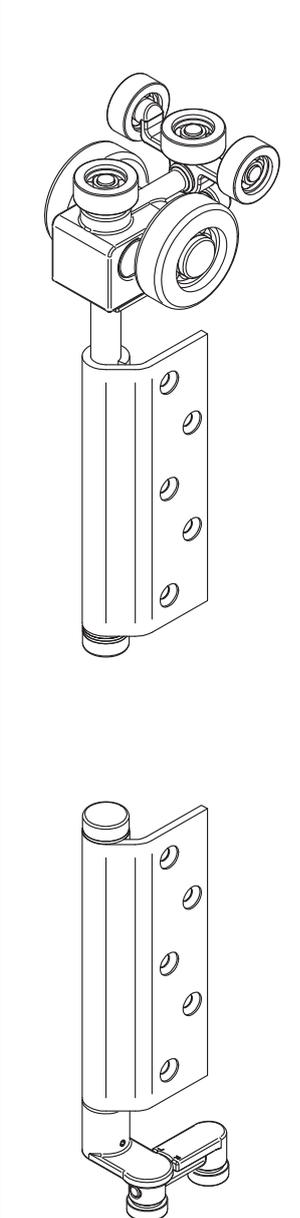
BWS1-150H



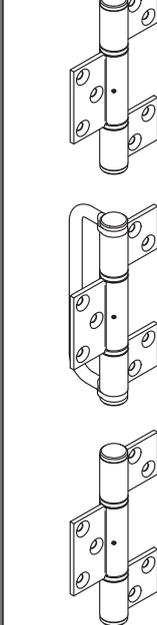
BWS4-150SH



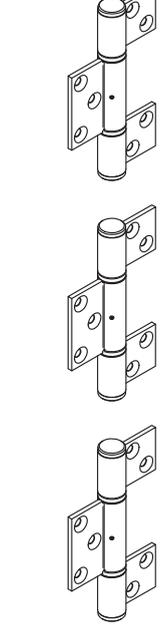
BWS2-150SH



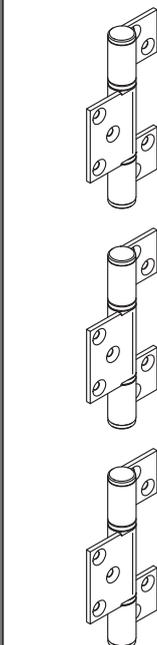
BW3-150H



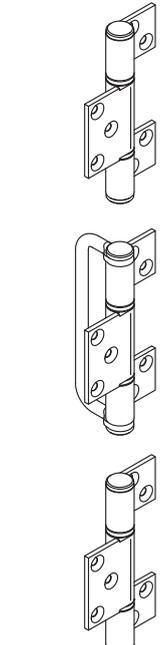
BW5-150H



BW6-150H



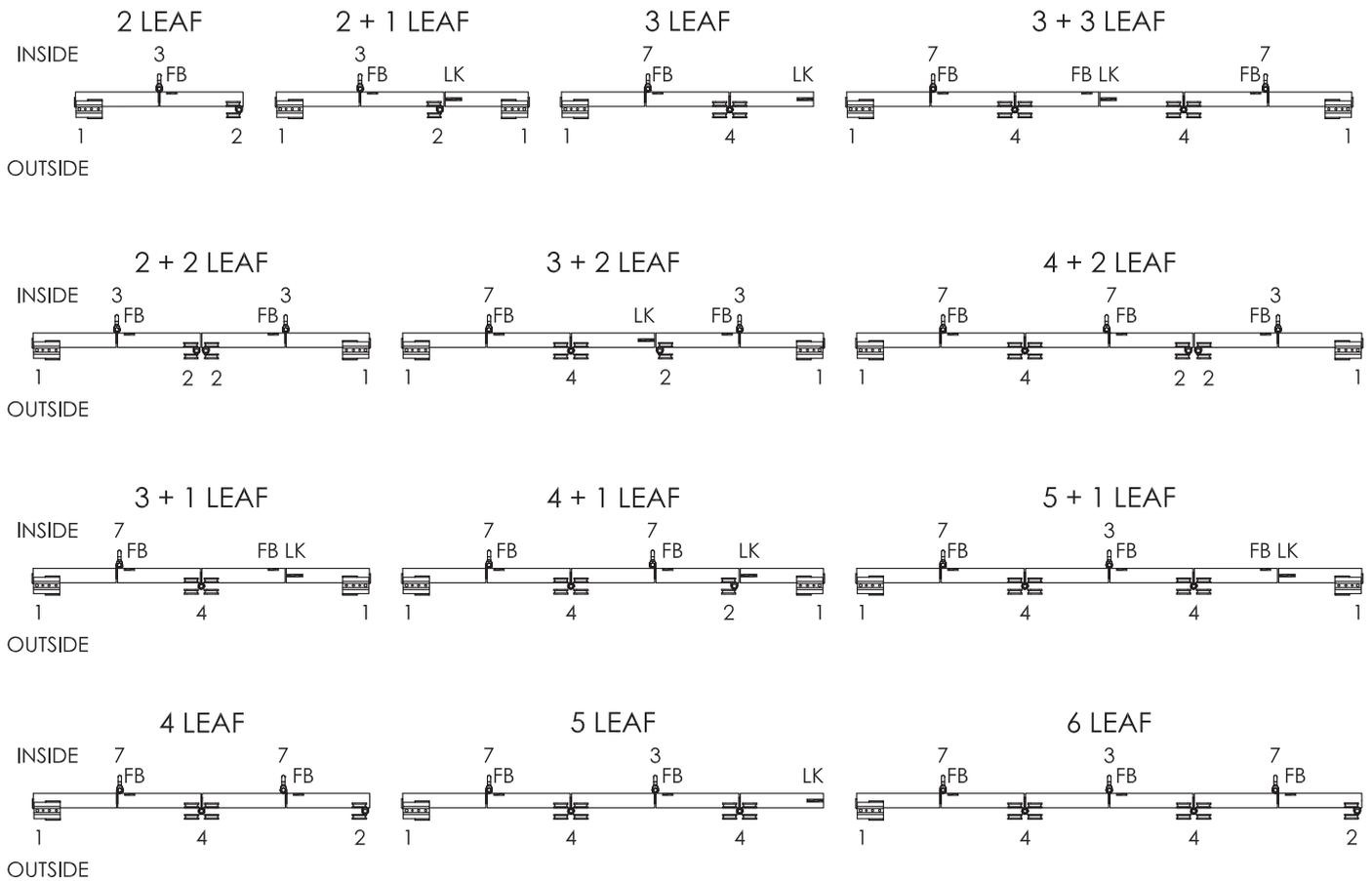
BW7-150H



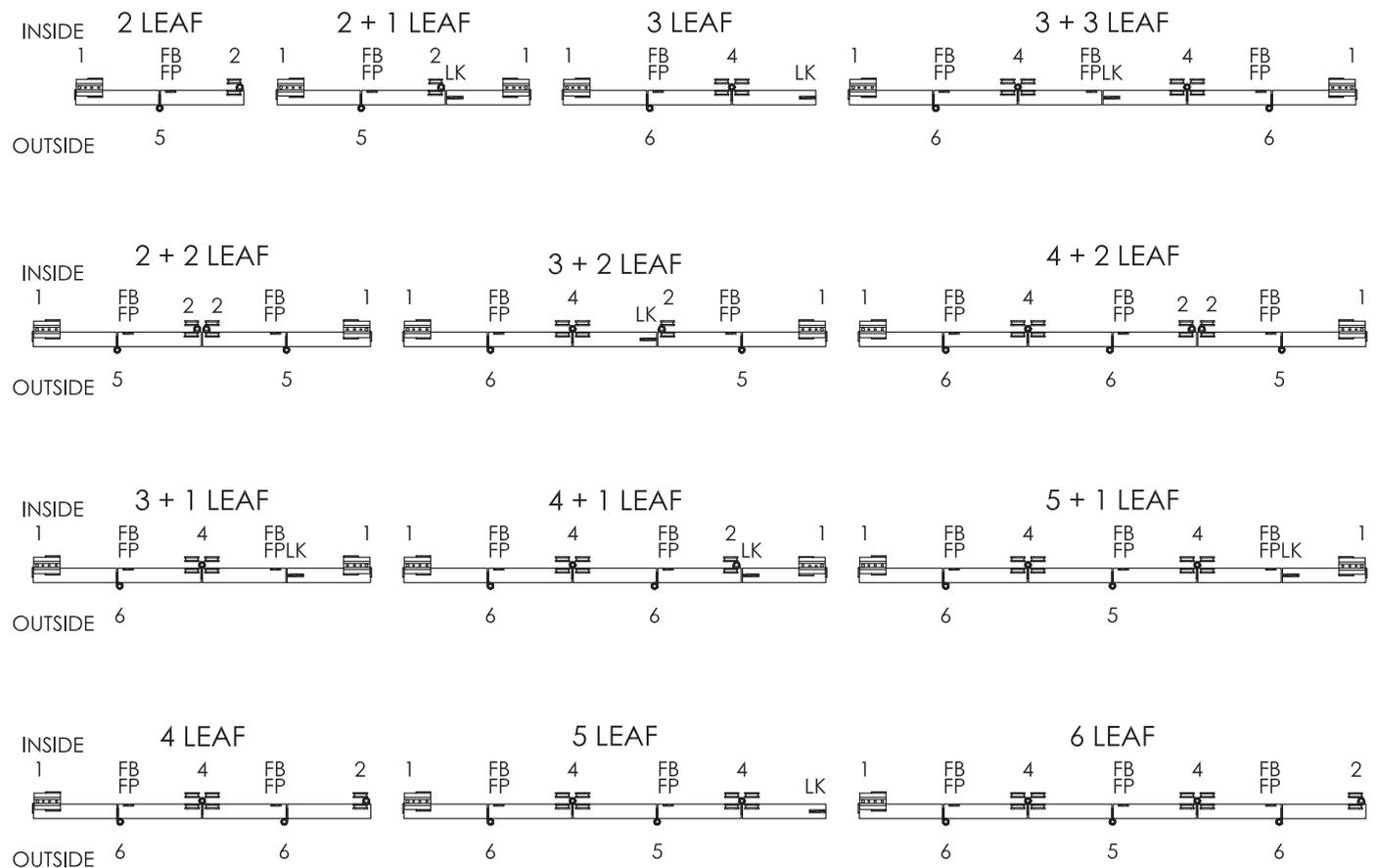
Door Hardware Set Orientation

FB = Flush Bolt, FP = Flush Pull, LK = Lock, left systems shown

OUTWARD OPENING

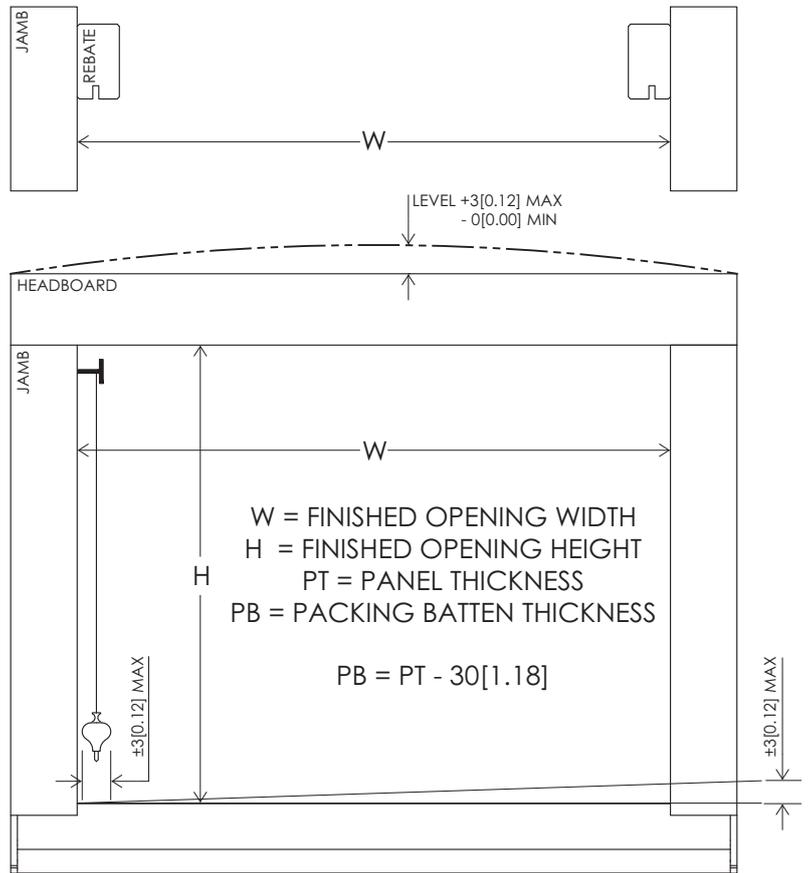
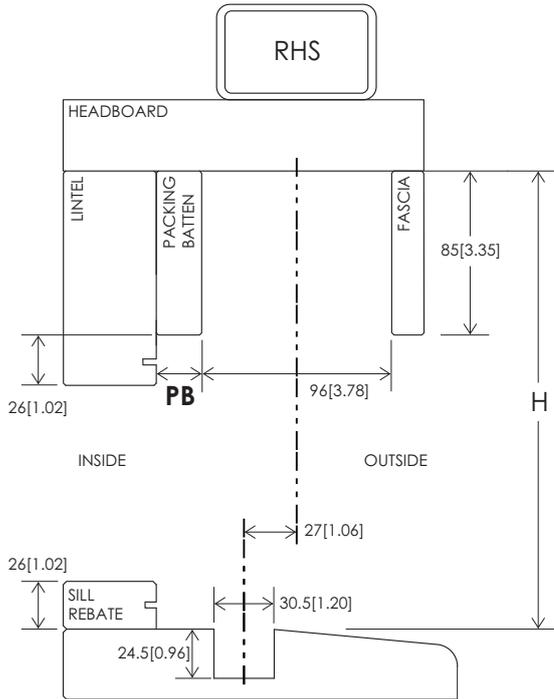


INWARD OPENING



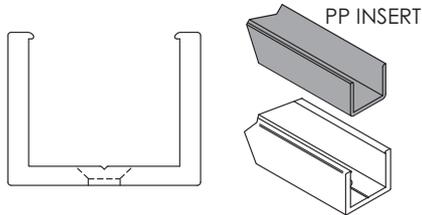
Opening Preparation note outward opening, dimensions shown in mm[inches]

TRACK AND HEADBOARD TO BE FIXED TO LOAD BEARING STRUCTURE (STEEL BEAM)
CONSULT A STRUCTURAL ENGINEER
Timber headboard can be replaced with timber packers or gasket material



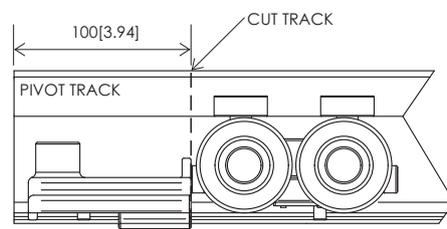
Track & Channel Preparation track & channel cut to length 'W' (finished opening width)

Countersink channel 20[0.79] from ends and at 400[15.75] intervals



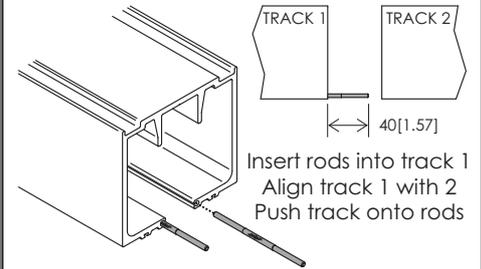
PP Insert = $W - 95[3.74]$, insert from non-pivot end after pivot installed

Cut track to allow access to hangers by removing track section



Install pivot track once hangers in

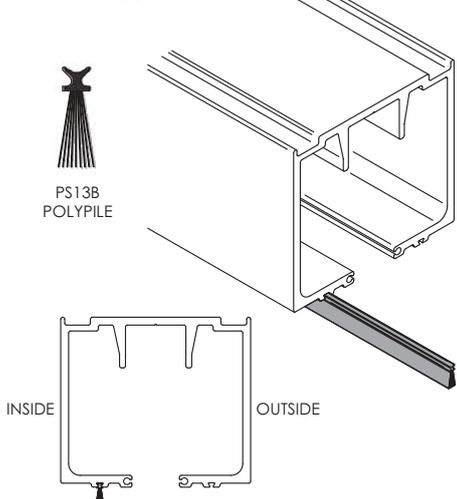
Use rods 700TJR for all other joints



Assemble sections before installing

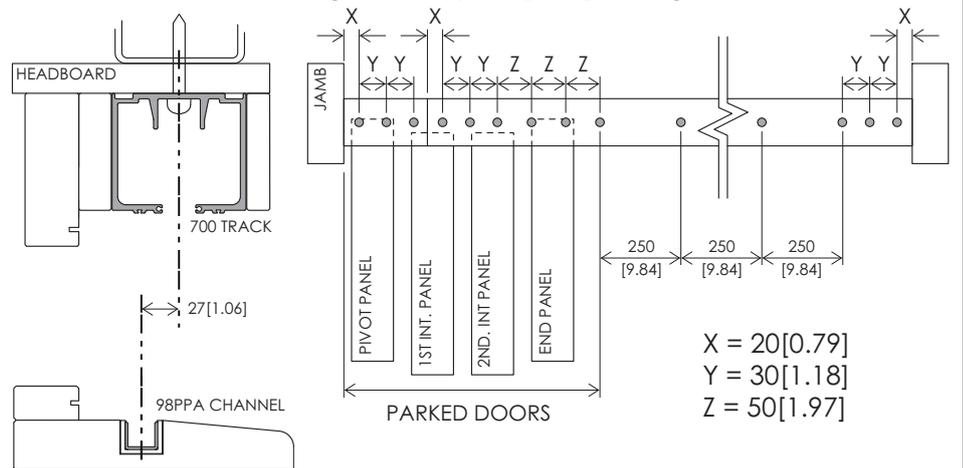
Install Track & Channel

Insert Polypile



Install polypile on inside of system

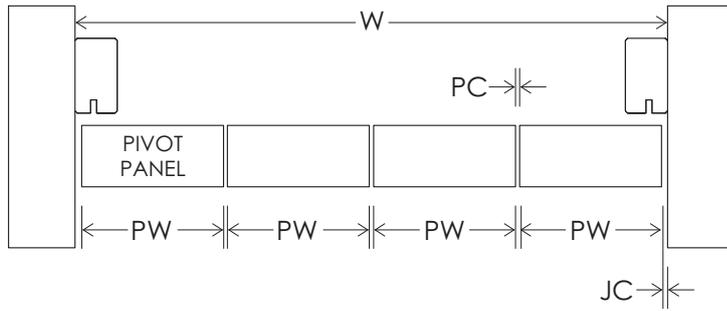
Fix track with 12G Roofing Screw by 100[4.00] through to RHS



After initial end of track fixings (X & Y) fix track at 50[1.97] intervals (Z) above all parked doors, then fix track at 250[9.84] intervals

Panel Size Calculation

Brio Weatherfold 4s allows for equal size panels

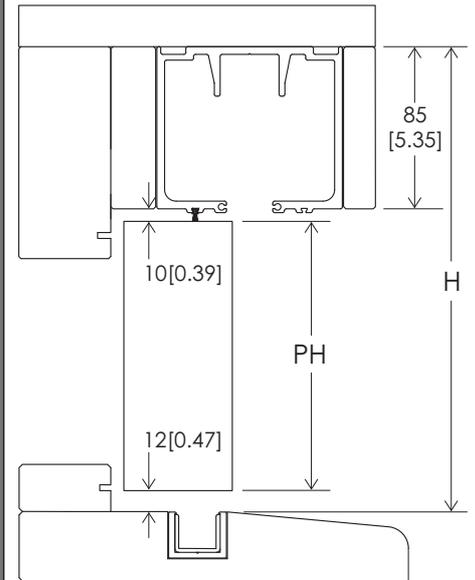


N = No. of Panels
 PW = Panel Width
 JC = Jamb Clearance = 8[0.24]
 PC = Panel Clearance = 4[0.16]

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

JC based on panels 1000[39.37] wide and 57[2.25] thick

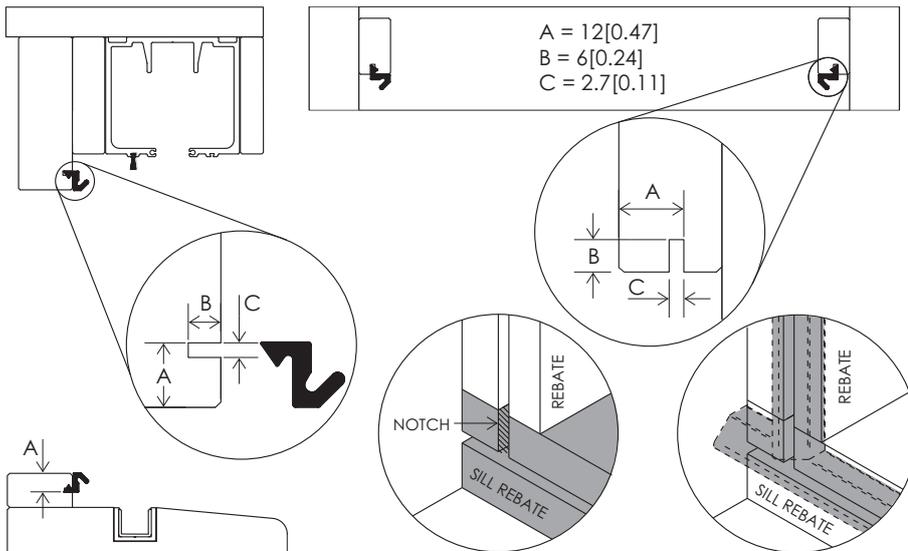
PH = Panel Height



$$PH = H - 107[4.21]$$

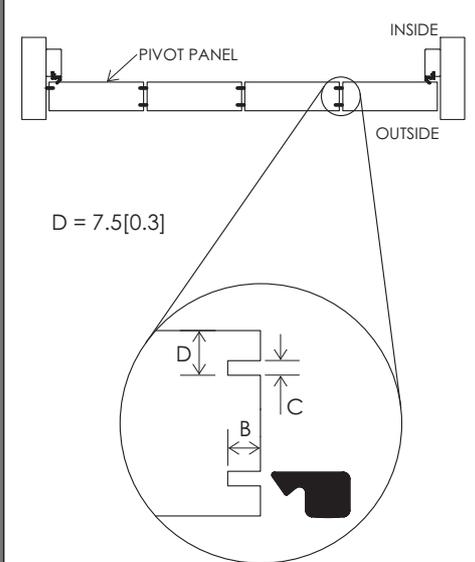
Seal Preparation note left opening system shown

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



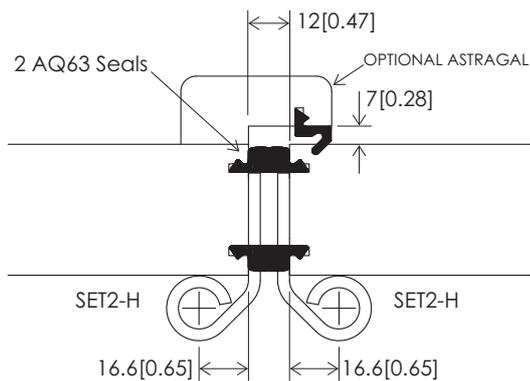
Lintel and sill rebate to be notched as shown

Panel - AQ63

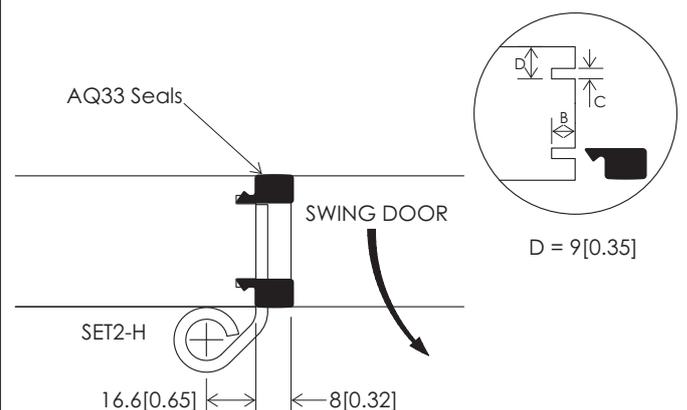


Meeting Door Selection

2 Meeting end panels

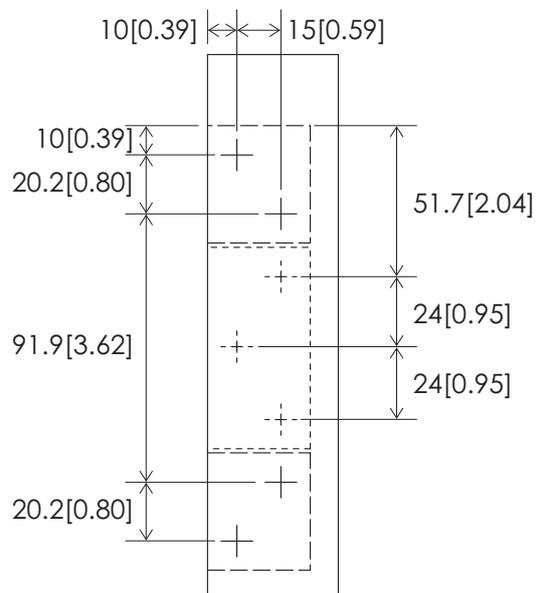
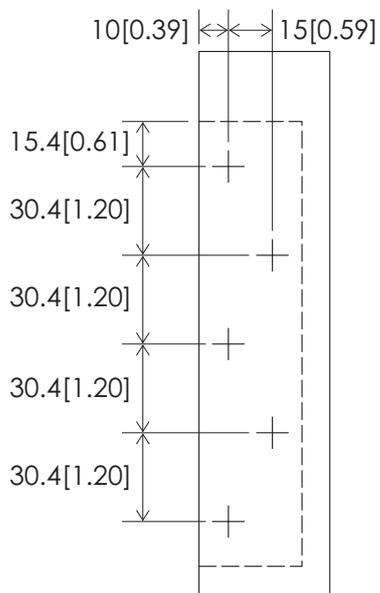
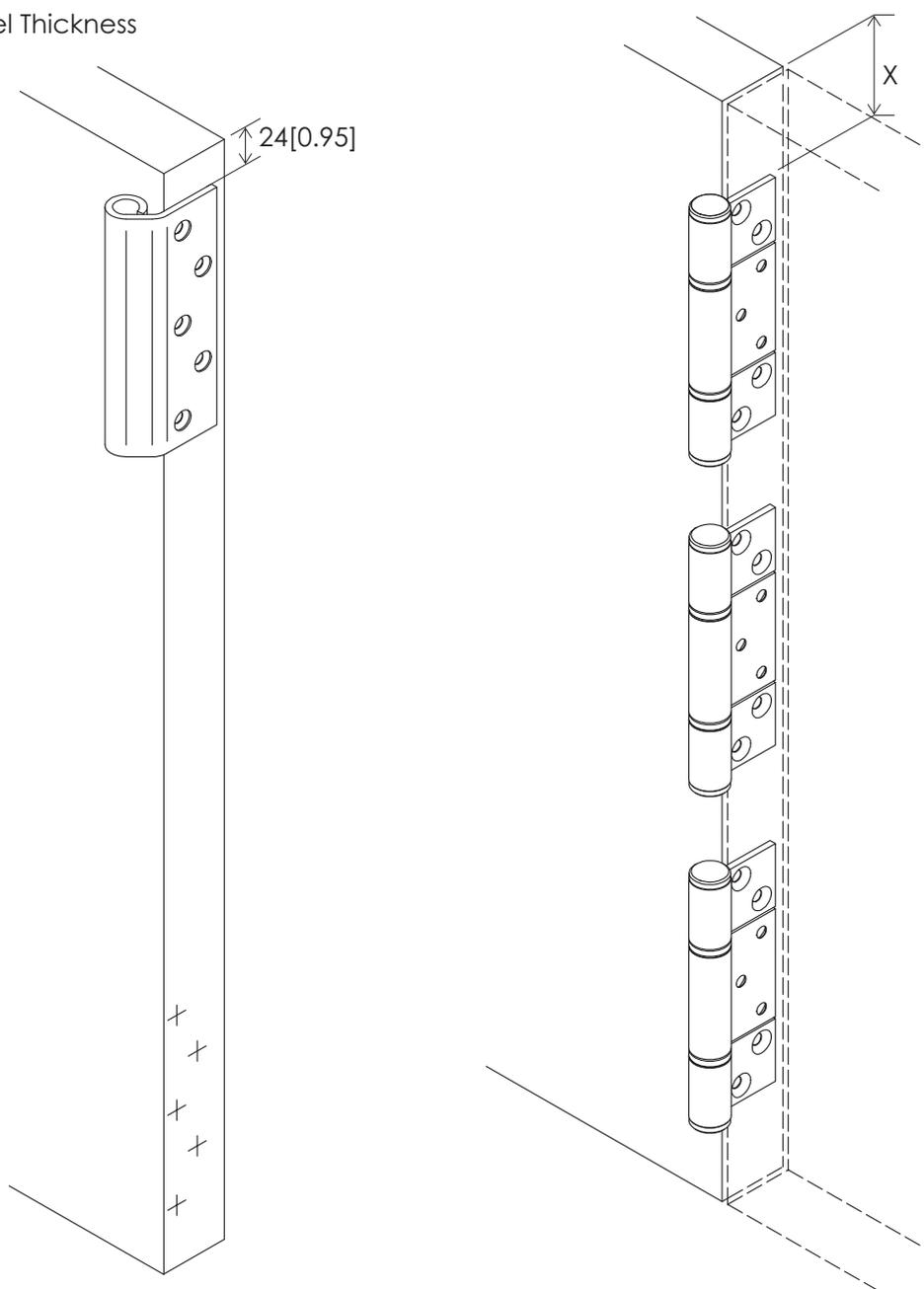


End panel meeting swing door



Hinge Installation Pilot hole of Ø3.5mm[0.14"] recommended

Non-mortice H
44[1.73]-68[2.68] Panel Thickness

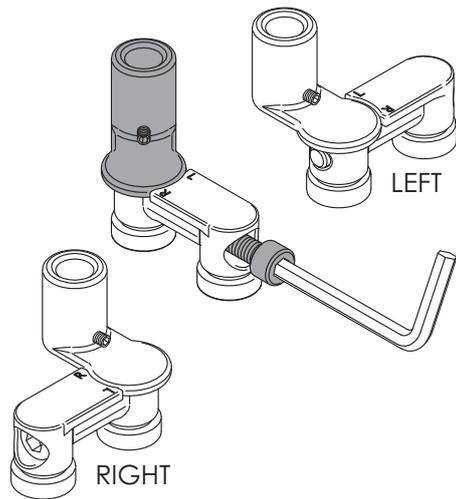


X=24[0.95] on Set 4
X=60[2.36] min on Sets 3, 5, 6 & 7

End Guide

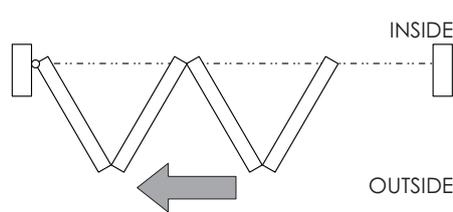
when viewed from outside doors folding left need a left end guide and vice versa for right

Handing End Guide

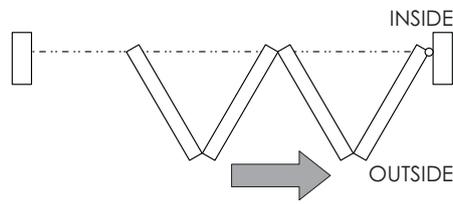


Back off cap screw and rotate guide arm into left or right position

Determining System Orientation

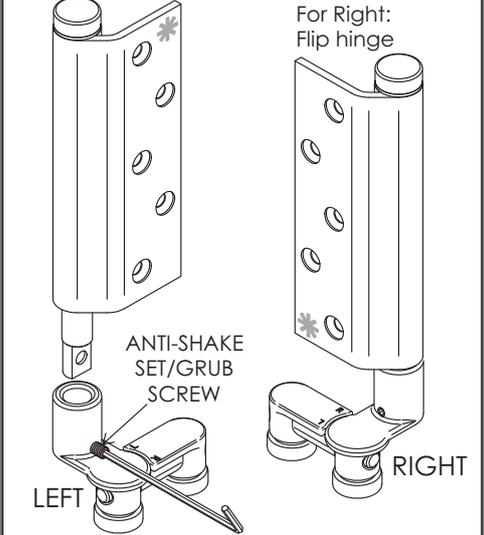


Left, outward opening system



Right, outward opening system

Handing end set hinge

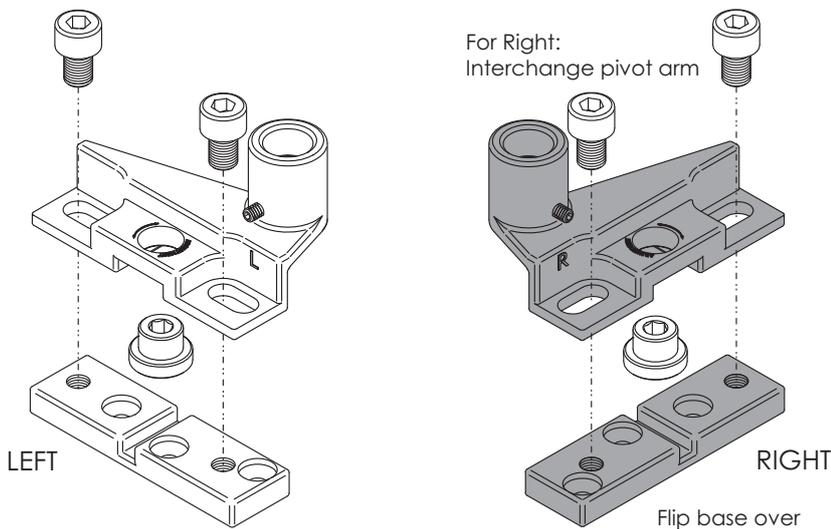


Lock off anti-shake set/grub screw

Bottom Pivot

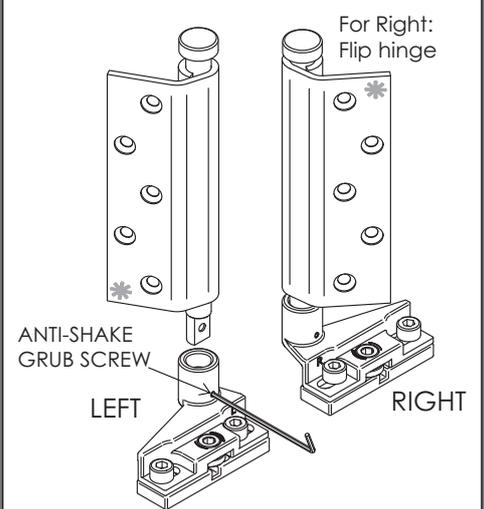
when viewed from outside doors folding left need a left pivot and vice versa for right

Handing Bottom Pivot



Secure assembly by locking off cap screws

Handing pivot set hinge

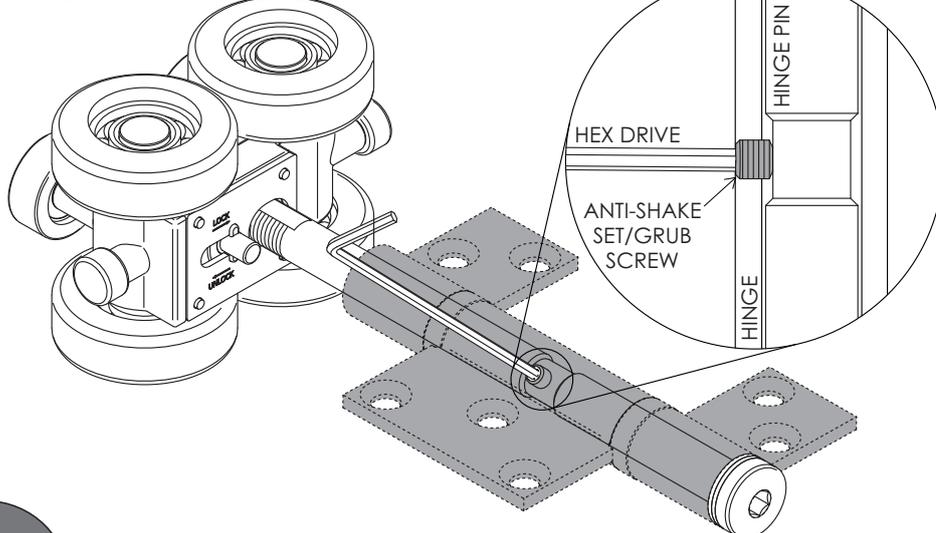


Lock off anti-shake set/grub screw

Intermediate Set

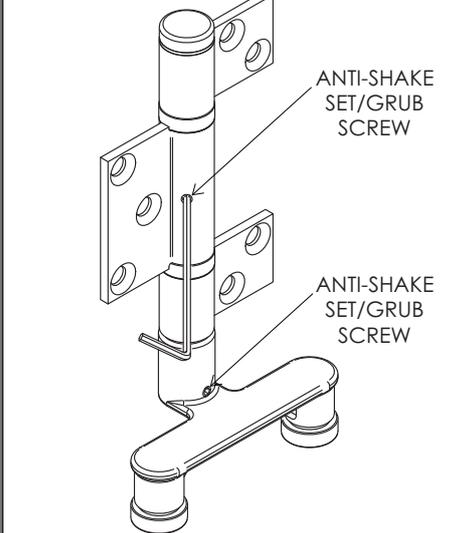
security set/grub screw application

Hanger security



Anti-shake set/grub screw prevents pin being removed from hinge

Guide security



Lock off both set/grub screw

Optional Extras jamb pivot and flush bolts, see page 2 for flush bolt location on all configurations

Installation of jamb pivot

PIVOT PANEL | END PANEL

JAMB | HINGE

30[1.18] | 11[0.43]

Ø18[0.71] | 8[0.32]

PIVOT PANEL

REBATE | 7[0.28]

JAMB | PIVOT PANEL | PT

11[0.43]

HINGE PIN

Hinge aligns with other centre hinges

JAMB PIVOT BOLT

Wind jamb pivot bolt in or out until it aligns with hinge pin

X = PT + 18[0.71] Assemble after top and bottom pivot are set

Install flush bolt to panel

For square flush bolts chisel out corners

60 [2.36]

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

X

Counter bore for lockable flush bolts

41[1.61] | 2.5[0.10]

11[0.43] | 24[0.95]

Ø24[0.95]

Install keeper to sill

PIVOT PANEL | FLUSH BOLT

INSIDE | OUTSIDE

KEEPER

DUST BOX

8[0.32]

43[1.69]

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

Router available for flush bolt

Attaching Hardware to Panels recommended before installation

Ensure doors are level and square from top

22[0.87]

18.6[0.73]

Set 1

Set 2

Set 4

Set 7

PIVOT PANEL

1ST INT. PANEL

2ND INT. PANEL

END PANEL

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

Viewed from outside, insert rollers through opening in correct order

JAMB

JAMB

PIVOT TRACK

Once all hangers in, attach pivot track section

Lock top pivot into position

8[0.32]

JAMB

CLAMP PLATE

CAP SCREWS

Place bottom pivot base in channel

JAMB

4[0.16]

98 Channel

JAMB

98 PP Insert cut 95[3.74] short of 98 Channel

Screw fix base in place

Assemble pivot

ARM & HINGE

CAP SCREWS

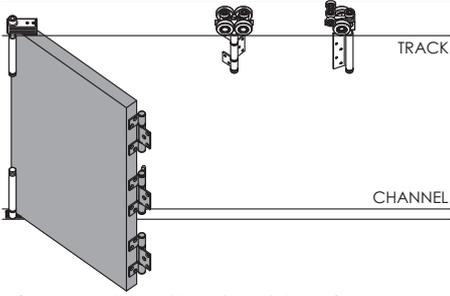
CAM

When cap screws loose, pivot arm can slide freely

Securely assemble bottom pivot for installation

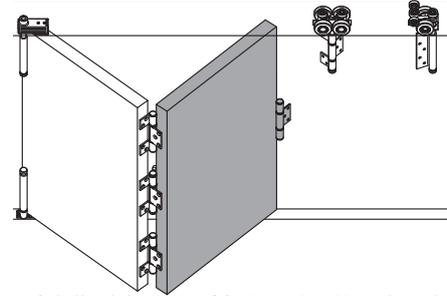
Hanging Panels

Bring pivot panel to pivot set



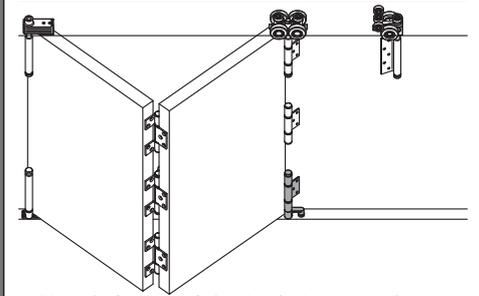
Hinge set 7 attached to pivot panel

Bring 1st int. panel to pivot panel



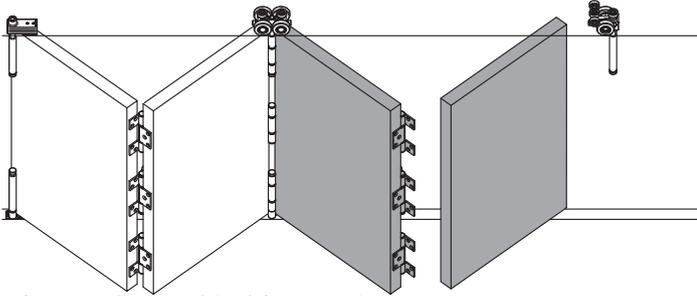
Middle hinge of int. set attached

Fix int. hanger to int. panel



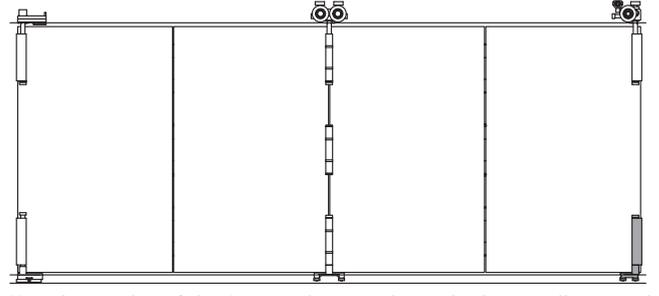
Attach int. guide to int. panel

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



Bring end panel to hinge set 7

Fix end panel to end hanger

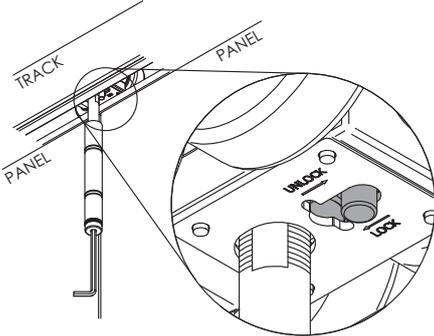


Attach end guide to end panel and close all panels

Adjustment

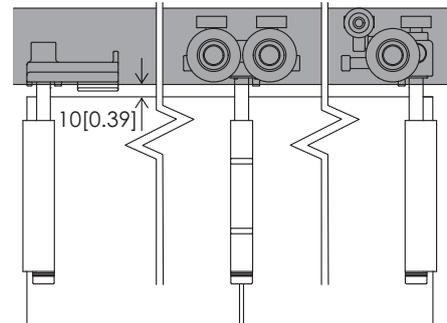
bolt locking mechanism applied to all hangers and top pivot

Push in spring loaded button

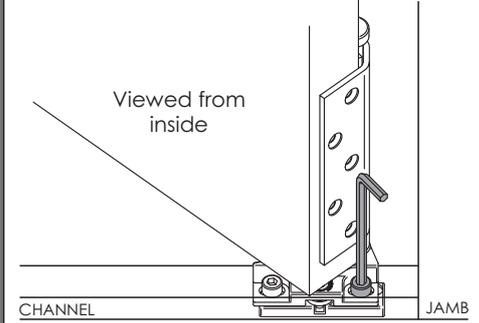


Slide back spring loaded button & collar before winding bolt in or out

Adjust all hangers and top pivot until panels are level with track



Once panels are level, partially open doors - lock off 1st cap screw



Open fully, lock off 2nd cap screw

System Overview

