

# Brio® Weatherfold 4s 150

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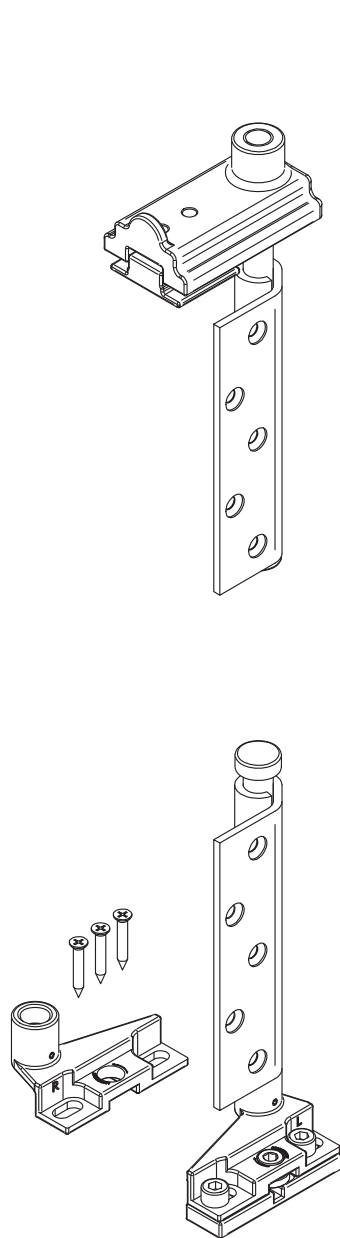
## Codes

**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)

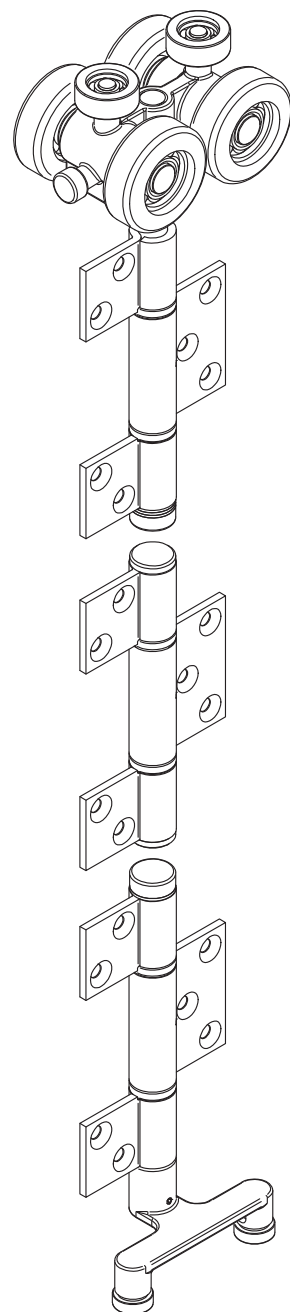
Brio Weatherfold 4s

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

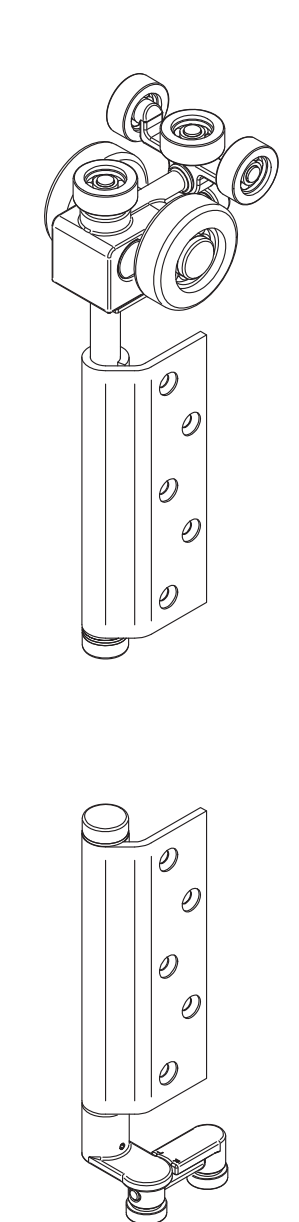
BWS1-150H



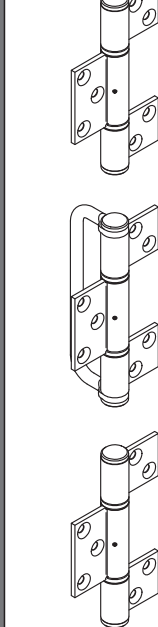
BWS4-150SH



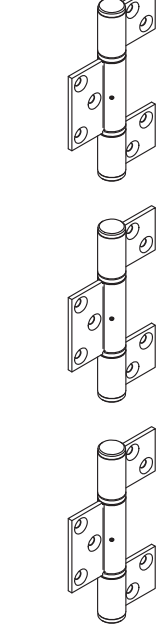
BWS2-150SH



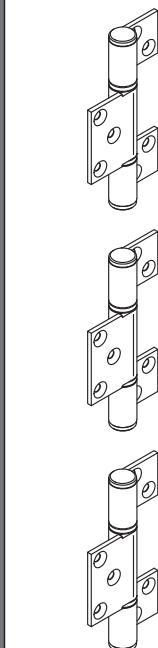
BW3-150H



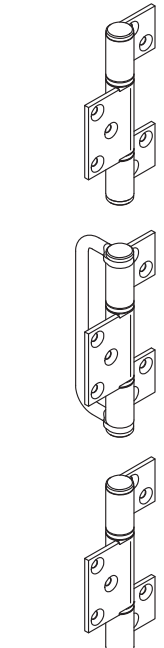
BW5-150H



BW6-150H



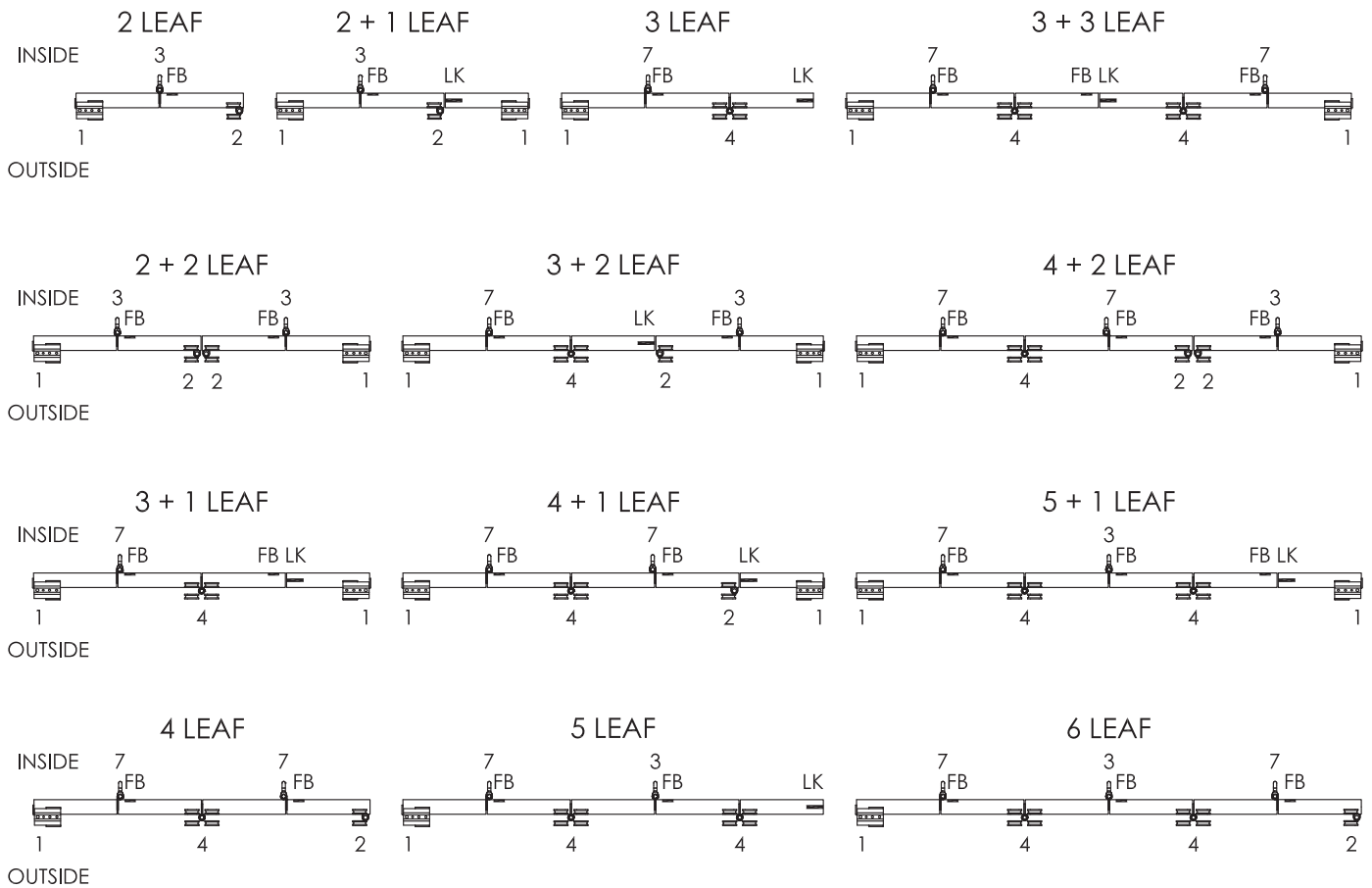
BW7-150H



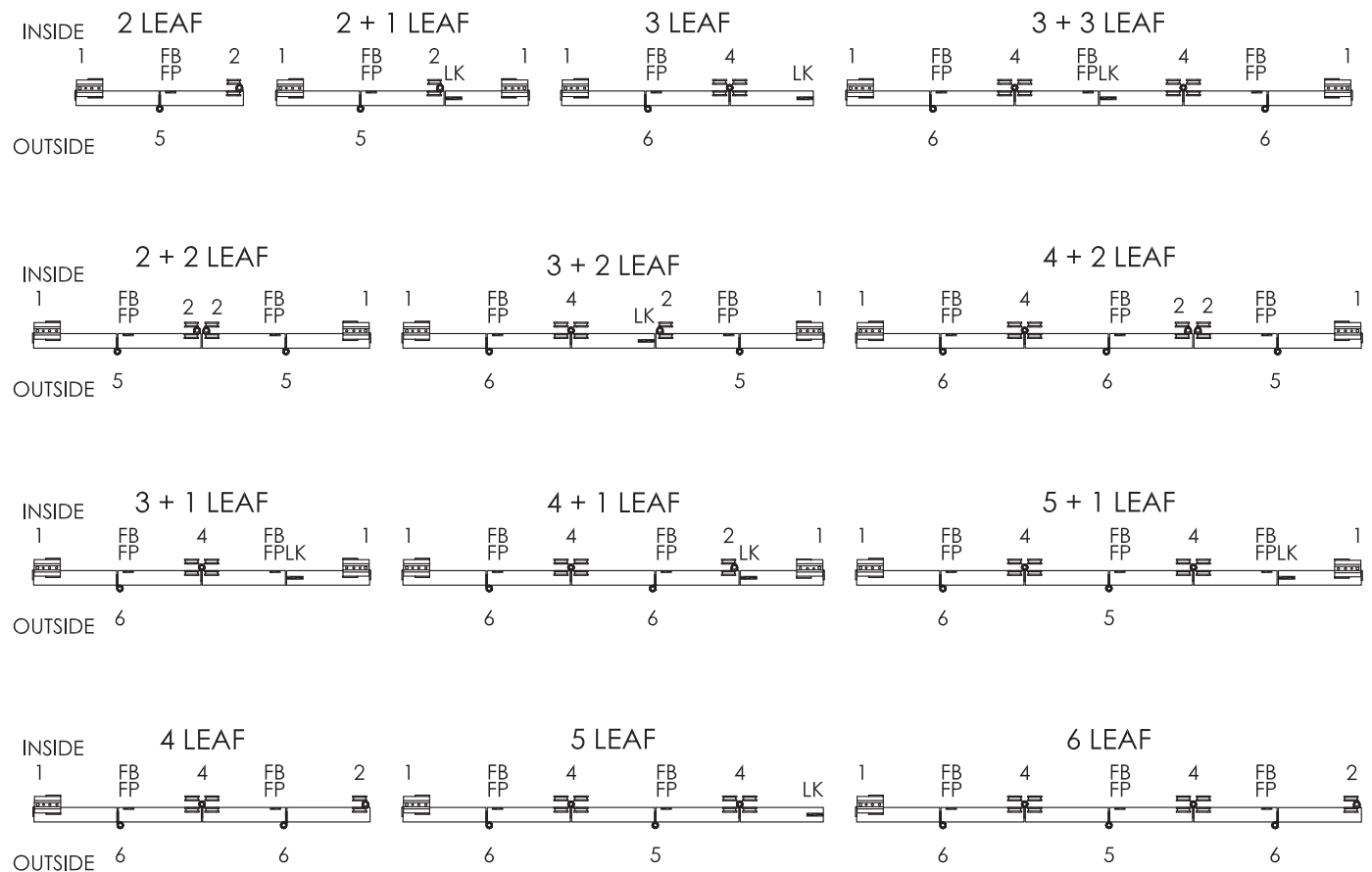
# Door Hardware Set Orientation

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

## OUTWARD OPENING



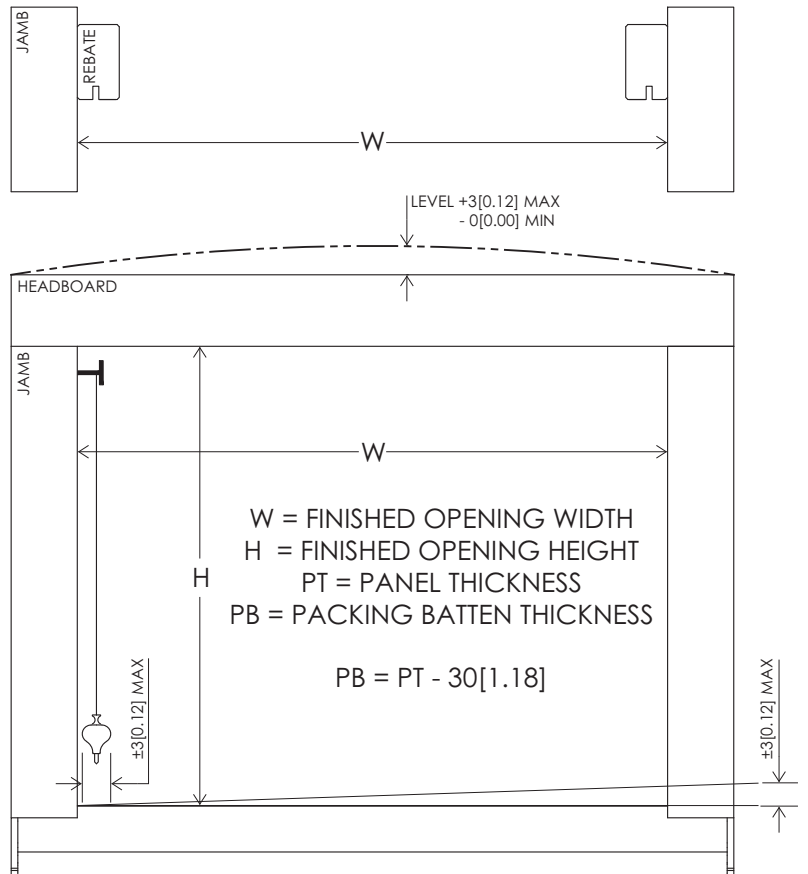
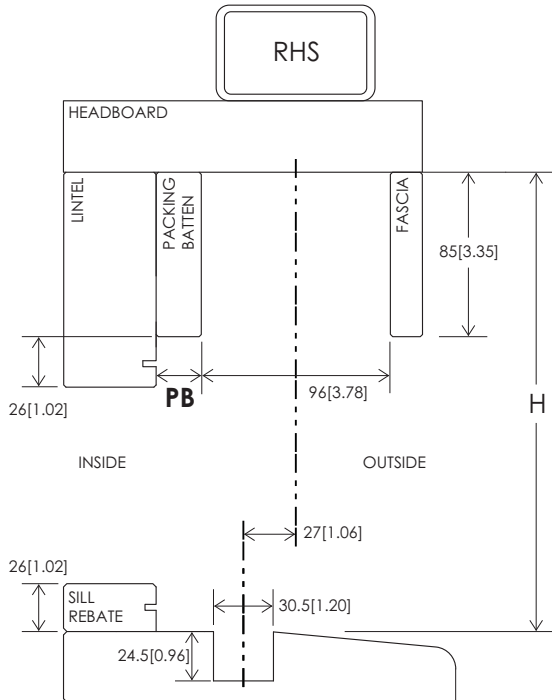
## INWARD OPENING



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

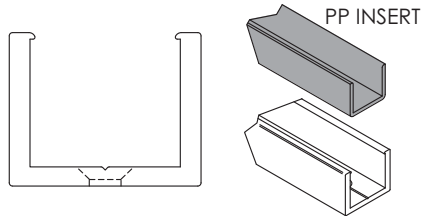
TRACK AND HEADBOARD TO BE FIXED TO LOAD BEARING STRUCTURE (STEEL BEAM)  
CONSULT A STRUCTURAL ENGINEER

Timber headboard can be replaced with timber packers or gasket material



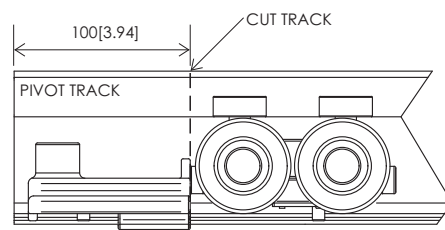
## Track & Channel Preparation track & channel cut to length 'W' (finished opening width)

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



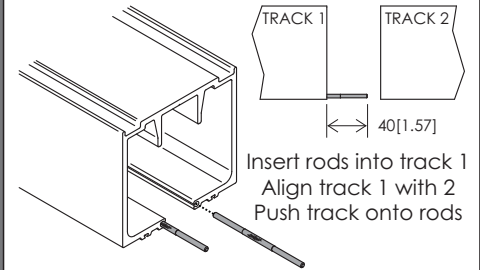
PP Insert =  $W - 95[3.74]$ , insert from non-pivot end after pivot installed

Cut track to allow access to hangers by removing track section



Install pivot track once hangers in

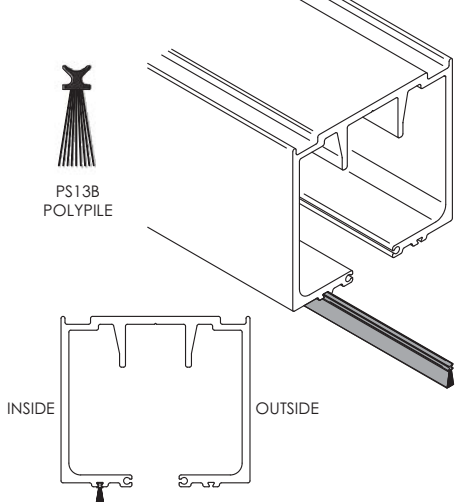
Use rods 700TJR for all other joints



Assemble sections before installing

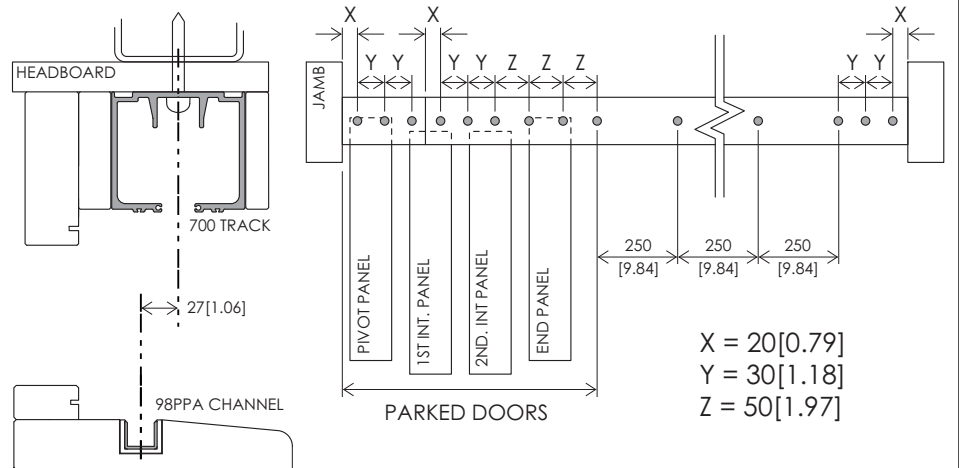
## Install Track & Channel

Insert Polypile



Install polypile on inside of system

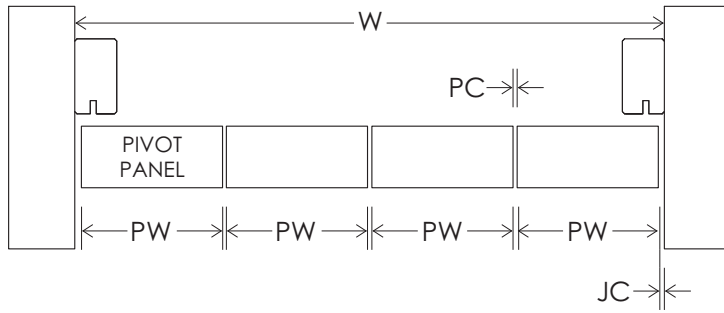
Fix track with 12G Roofing Screw by 100[4.00] through to RHS



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

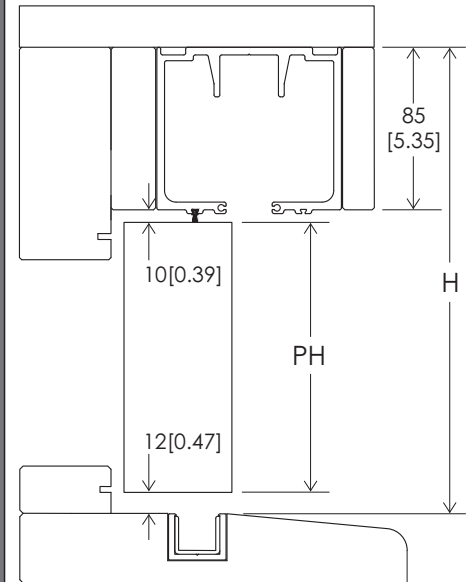


N = No. of Panels  
 PW = Panel Width  
 JC = Jamb Clearance = 8[0.24]  
 PC = Panel Clearance = 4[0.16]

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

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

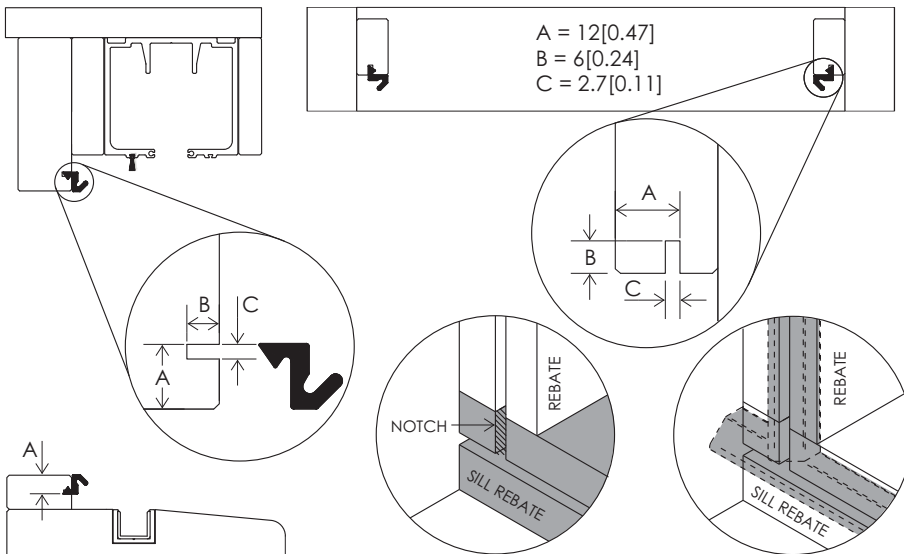
PH = Panel Height



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

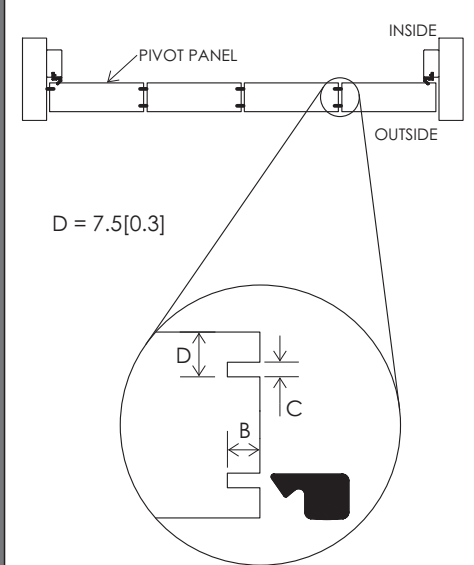
## Seal Preparation note left opening system shown

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



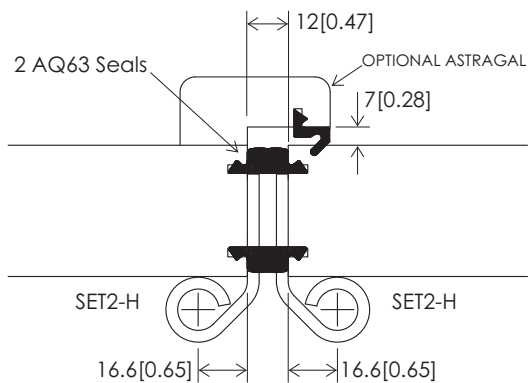
Lintel and sill rebate to be notched as shown

Panel - AQ63

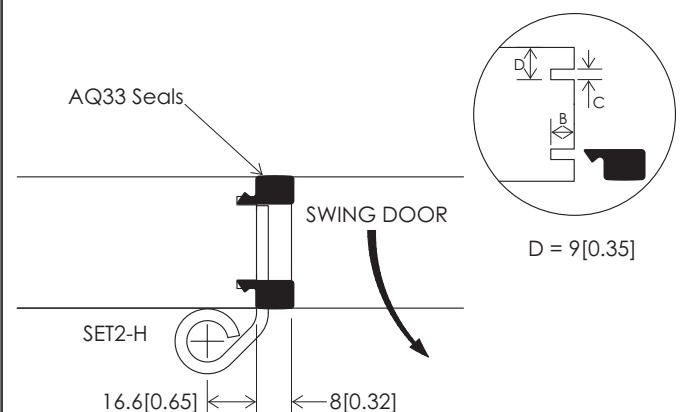


## Meeting Door Selection

2 Meeting end panels



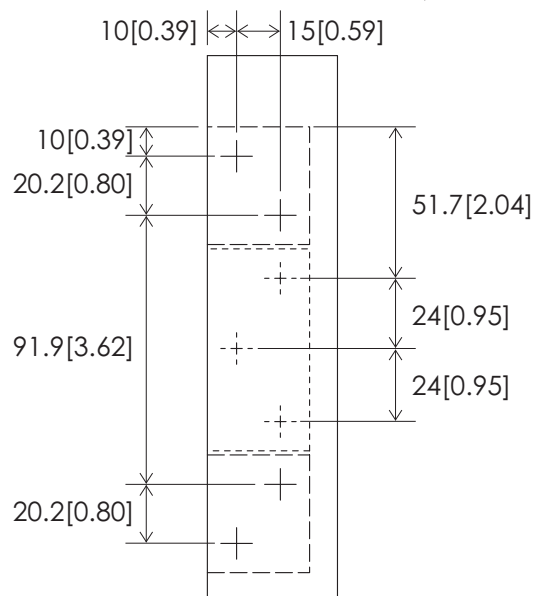
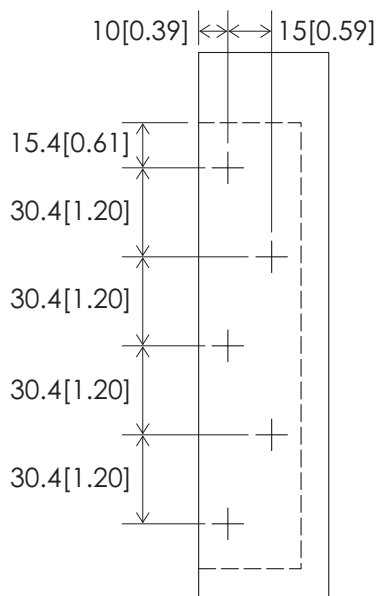
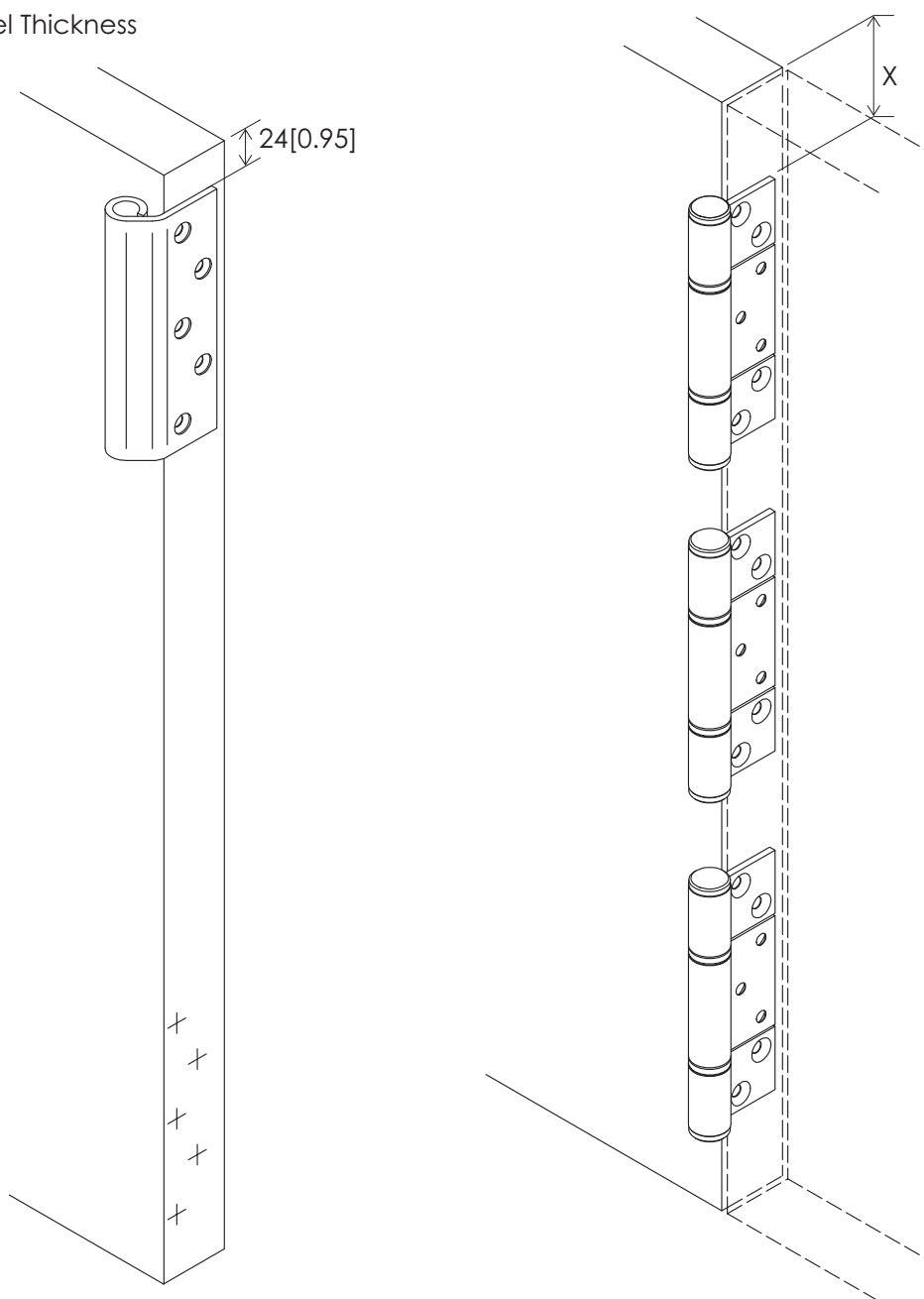
End panel meeting swing door



# Hinge Installation

Pilot hole of  $\varnothing 3.5\text{mm}$ [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

LEFT

RIGHT

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

### Determining System Orientation

INSIDE

OUTSIDE

Left, outward opening system

INSIDE

OUTSIDE

Right, outward opening system

### Handing end set hinge

For Right: Flip hinge

ANTI-SHAKE SET/GRUB SCREW

LEFT

RIGHT

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

LEFT

RIGHT

Secure assembly by locking off cap screws

### Handing pivot set hinge

For Right: Interchange pivot arm

For Right: Flip hinge

ANTI-SHAKE GRUB SCREW

LEFT

RIGHT

Flip base over

Lock off anti-shake set/grub screw

# Intermediate Set

security set/grub screw application

### Hanger security

HEX DRIVE

ANTI-SHAKE SET/GRUB SCREW

HINGE PIN

HINGE

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

### Guide security

ANTI-SHAKE SET/GRUB SCREW

ANTI-SHAKE SET/GRUB SCREW

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] | 10 [0.39]

8 [0.32]

PIVOT PANEL

REBATE | 7 [0.28]

JAMB | PIVOT PANEL | PT

11 [0.43]

X = PT + 17 [0.67] Assemble after top and bottom pivot are set

HINGE PIN

Hinge aligns with other centre hinges

JAMB PIVOT BOLT

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

### 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

PIVOT TRACK

JAMB

Once all hangers in, attach pivot track section

### Lock top pivot into position

8 [0.32]

JAMB

CLAMP PLATE

CAP SCREWS

When cap screws loose, pivot arm can slide freely

Securely assemble bottom pivot for installation

### 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

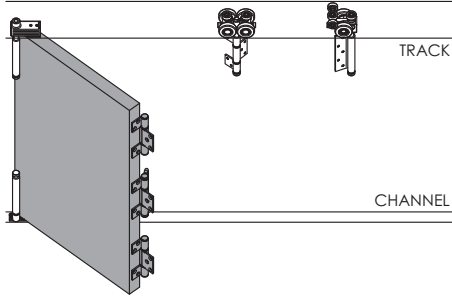
ARM & HINGE

CAP SCREWS

CAM

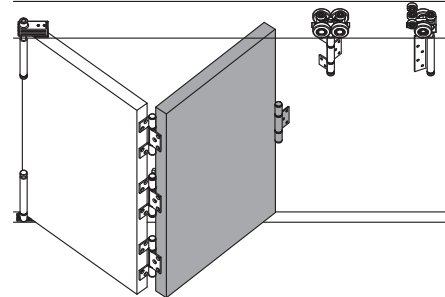
# Hanging Panels

Bring pivot panel to pivot set



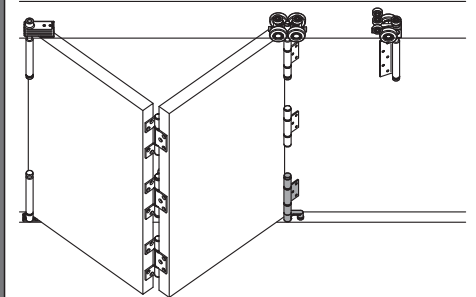
Hinge set 7 attached to pivot panel

Bring 1st int. panel to pivot panel



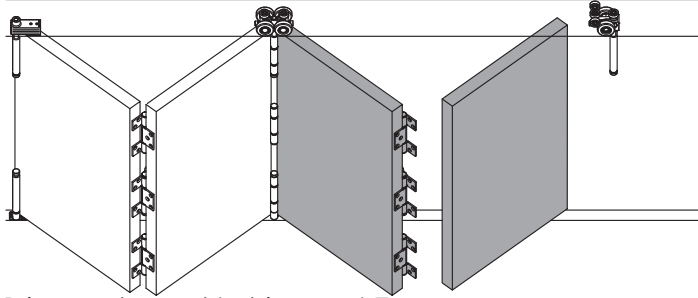
Middle hinge of int. set attached

Fix int. hanger to int. panel



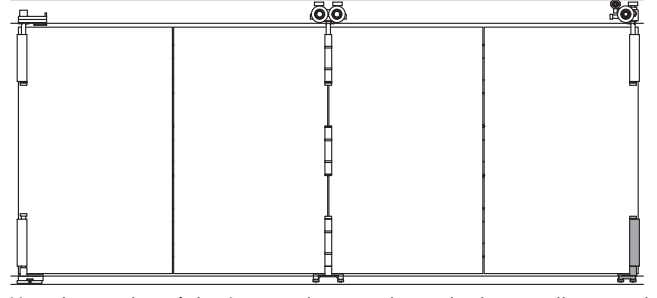
Attach int. guide to int. panel

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



Bring end panel to hinge set 7

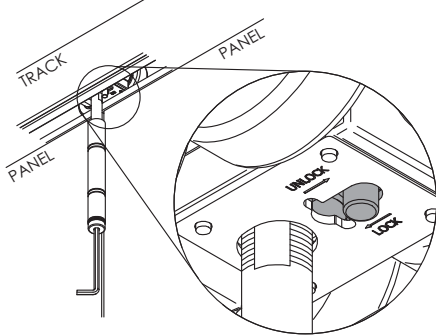
Fix end panel to end hanger



Attach end guide to end panel and close all panels

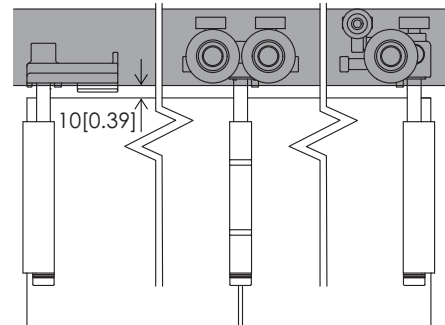
## Adjustment bolt locking mechanism applied to all hangers and top pivot

Push in spring loaded button

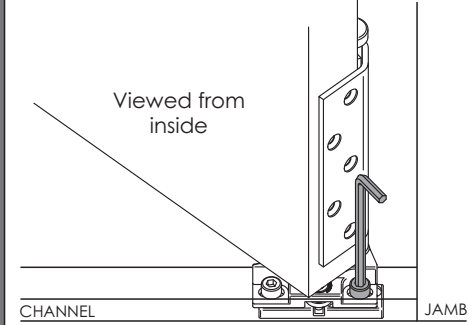


Slide back spring loaded button & collar before winding bolt in or out

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

