

Brio Weatherfold 4s 150

INSTBWSH1 REV C - APR 2012

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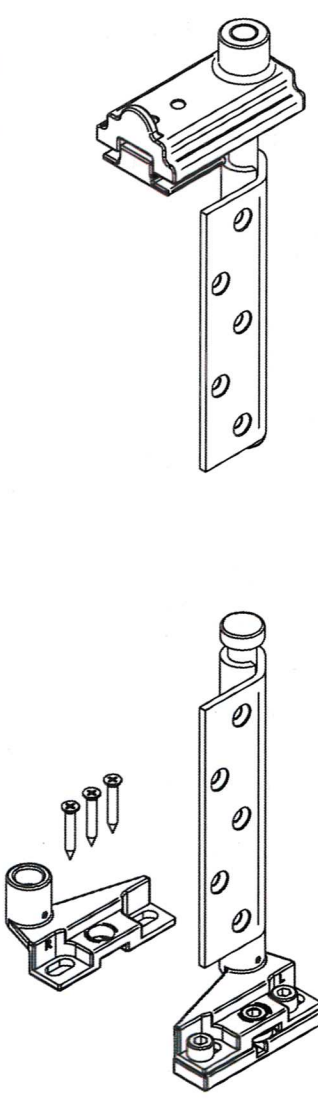
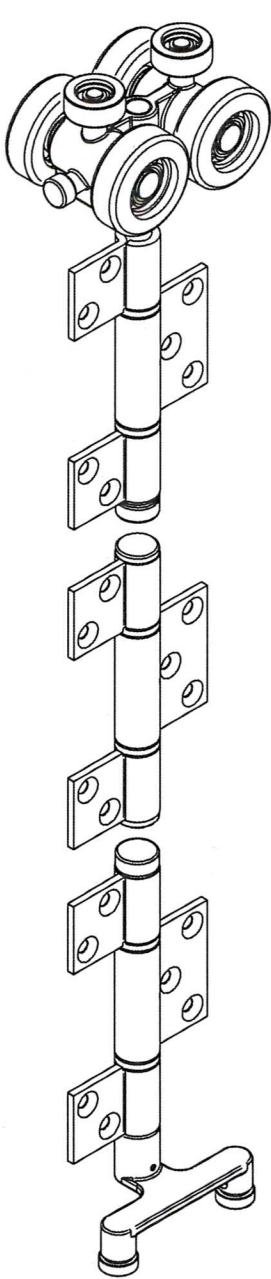
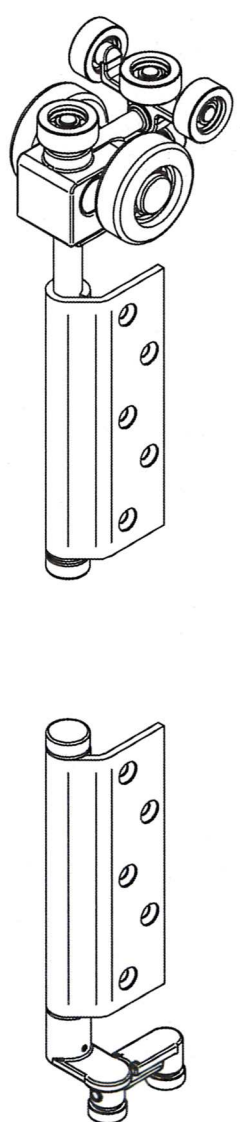
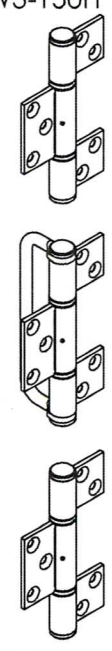
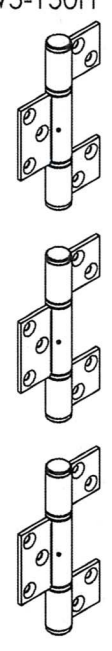
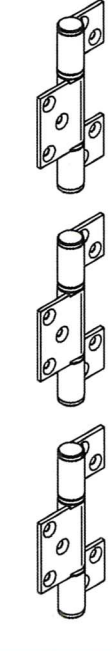
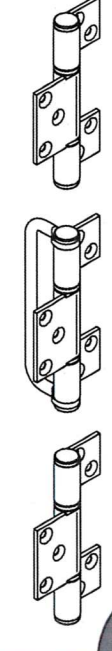
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Codes

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

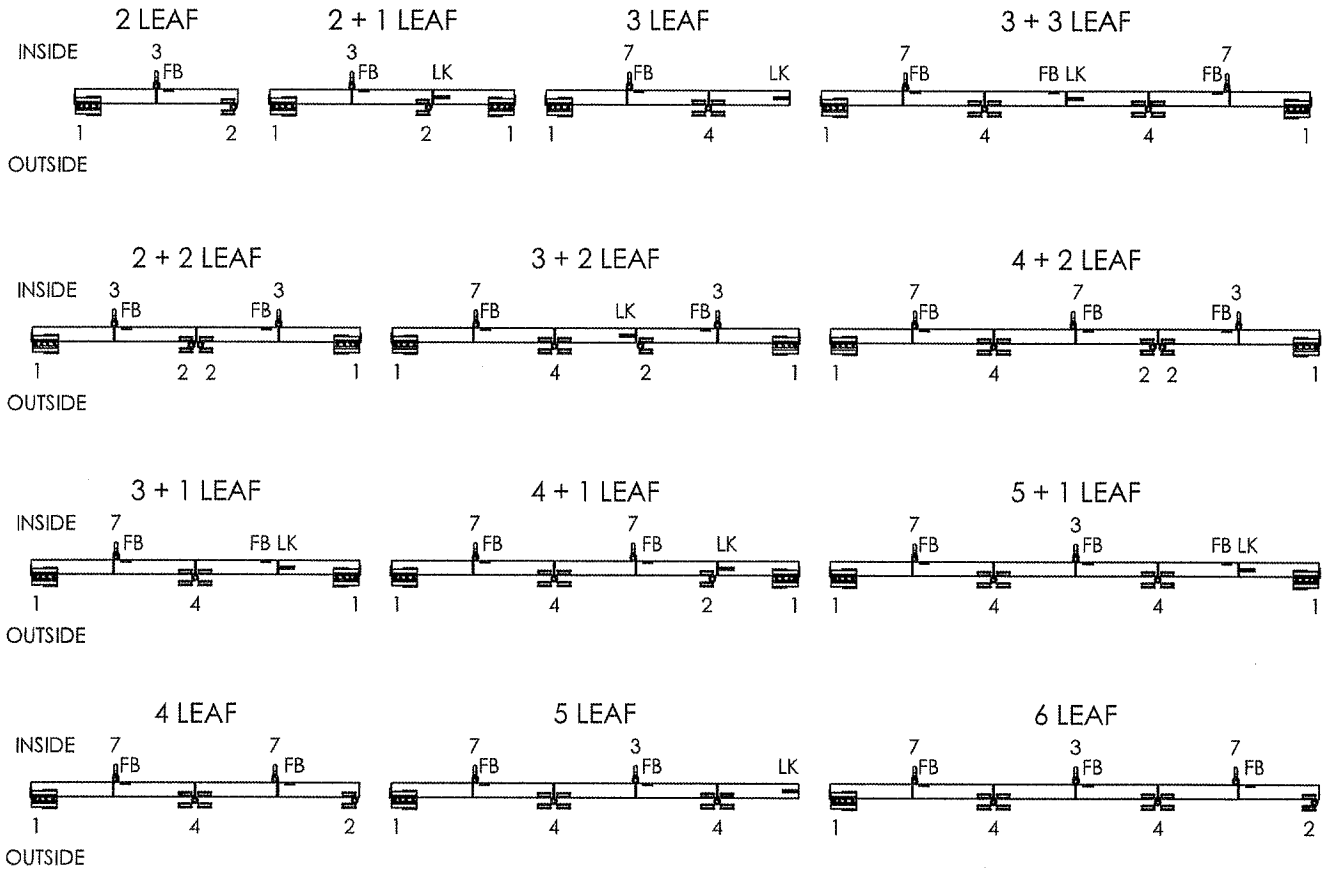
Sets note codes do not show finish, hinge sets not shown to same scale

<p>BWS1-150H</p> 	<p>BWS4-150SH</p> 	<p>BWS2-150SH</p> 	<p>BW3-150H</p> 	<p>BW5-150H</p> 
			<p>BW6-150H</p> 	<p>BW7-150H</p> 

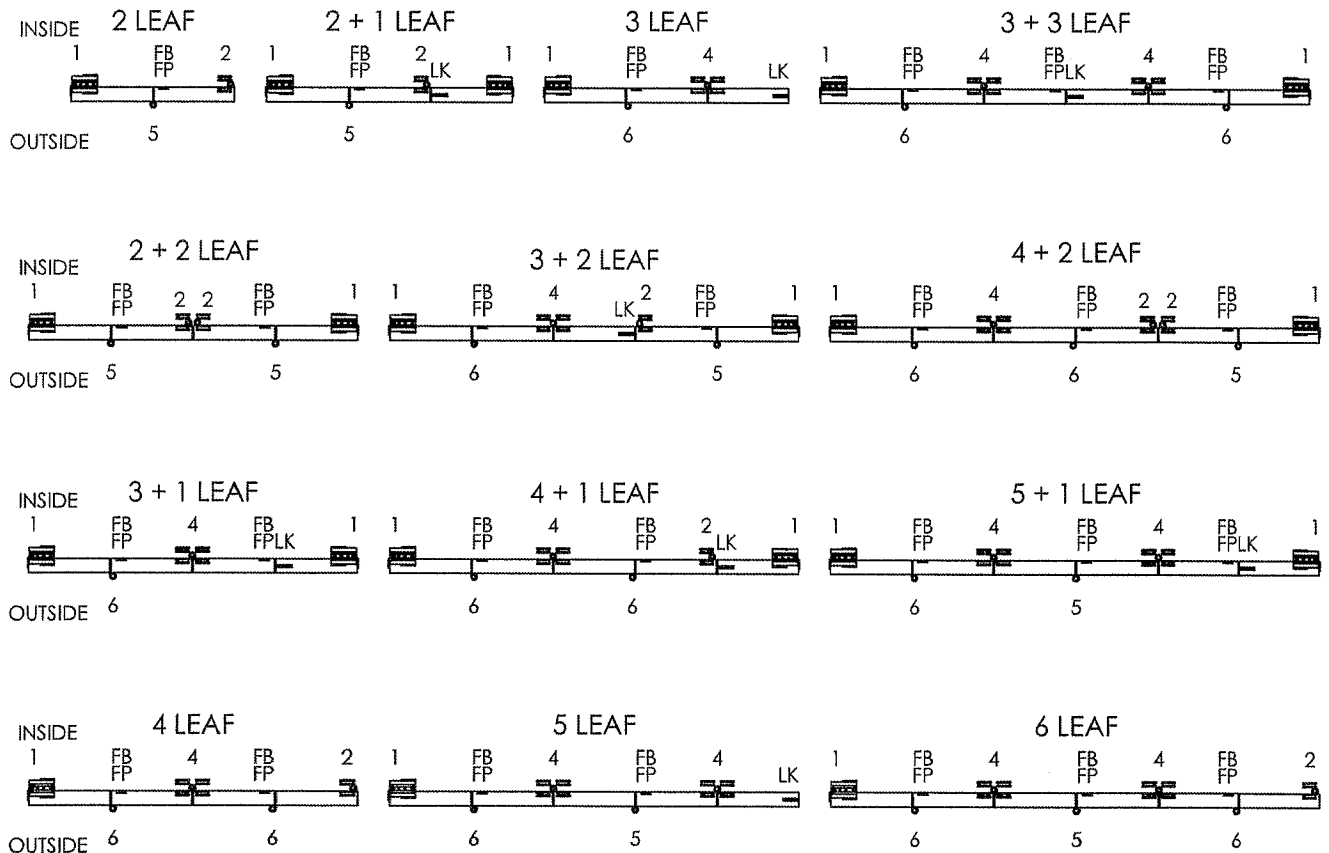
Door Hardware Set Orientation

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

OUTWARD OPENING

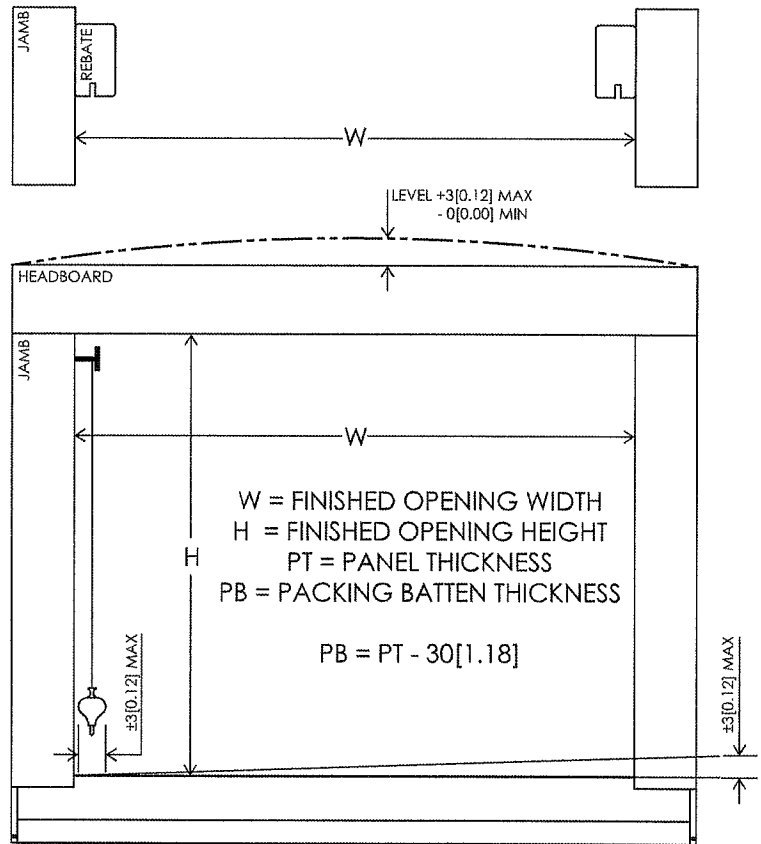
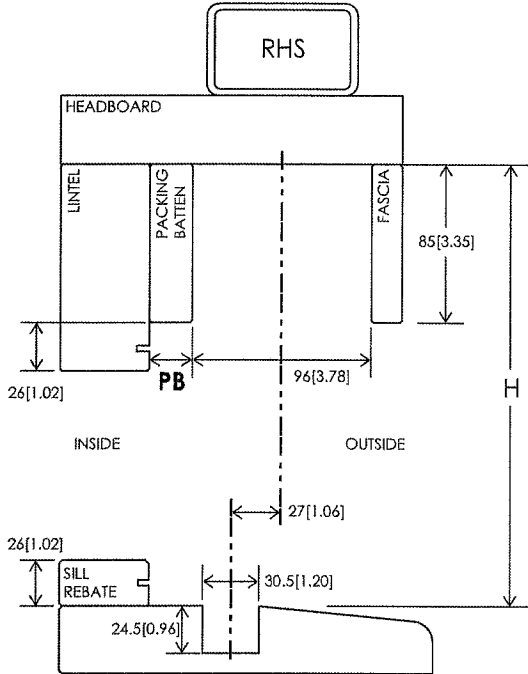


INWARD OPENING



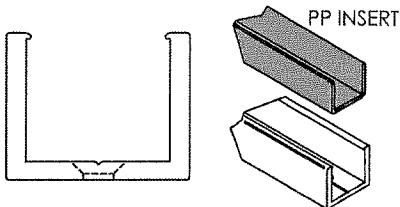
Opening Preparation note outward opening, dimensions shown in mm[inches]

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



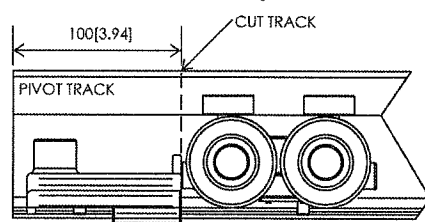
Track & Channel Preparation track & channel cut to length 'W' (finished opening width)

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



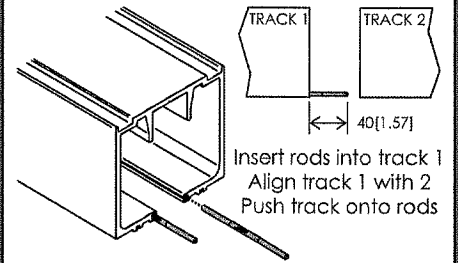
PP Insert = $W - 95[3.74]$, insert from non-pivot end after pivot installed

Cut track to allow access to hangers by removing track section



Install pivot track once hangers in

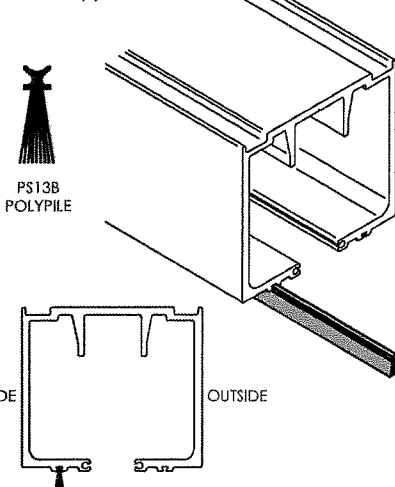
Use rods 700TJR for all other joints



Assemble sections before installing

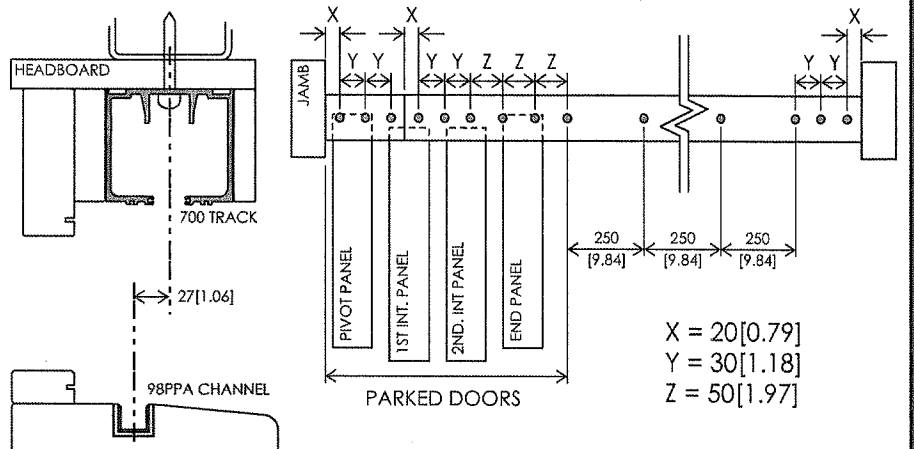
Install Track & Channel

Insert Polypile



Install polypile on inside of system

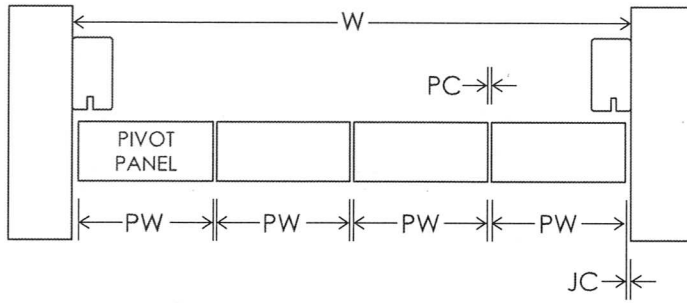
Fix track with 12G Roofing Screw by 100[4.00] through to RHS



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

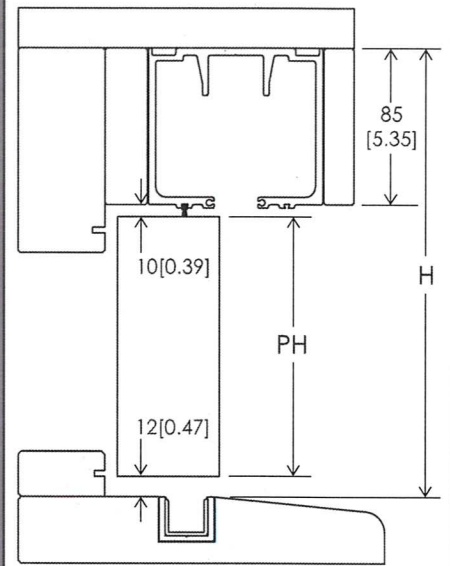


N = No. of Panels
 PW = Panel Width
 JC = Jamb Clearance = 8[0.32]
 PC = Panel Clearance = 4[0.16]

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

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

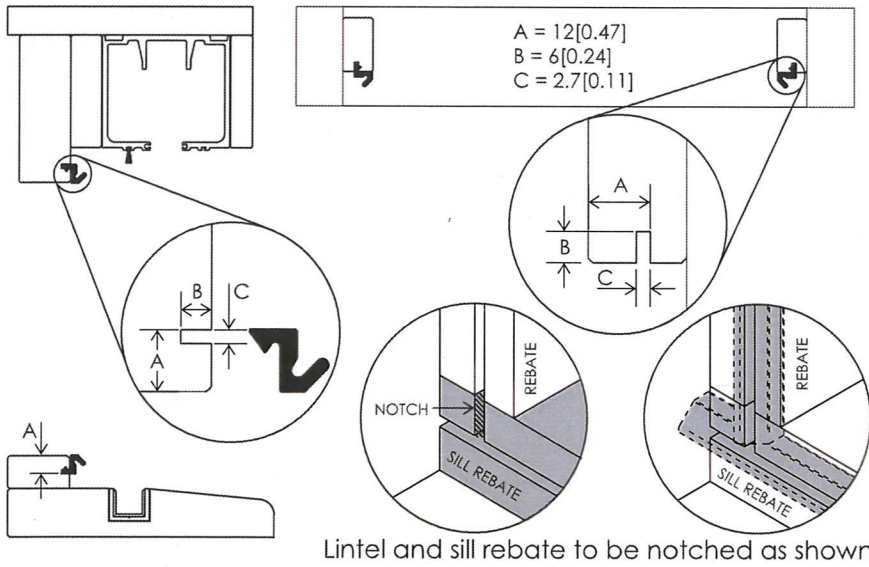
PH = Panel Height



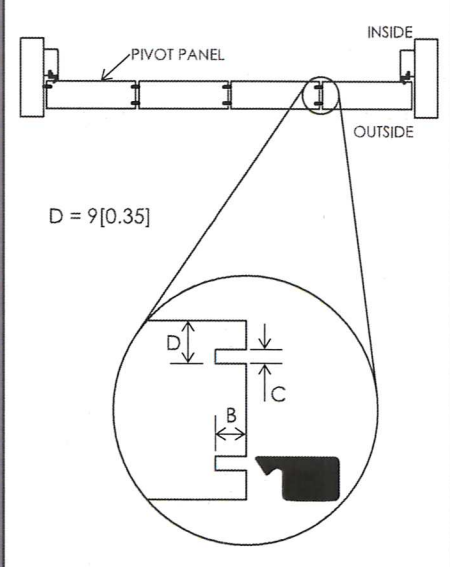
$$PH = H - 107[4.21]$$

Seal Preparation note left opening system shown

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

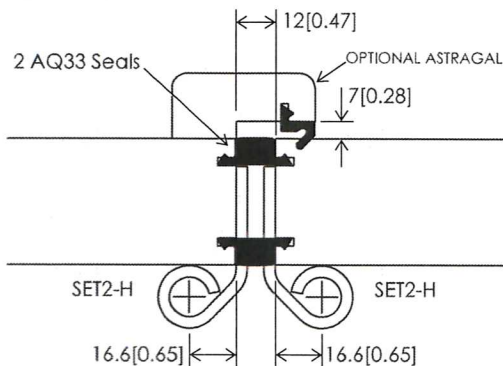


Panel - AQ33

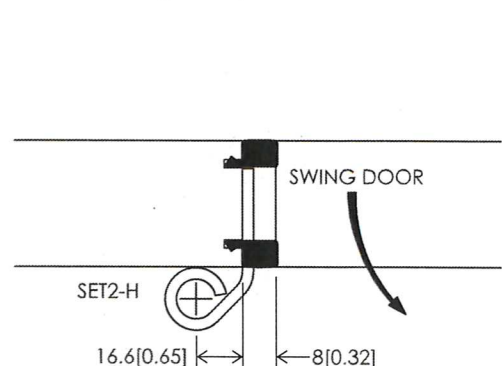


Meeting Door Selection

2 Meeting end panels



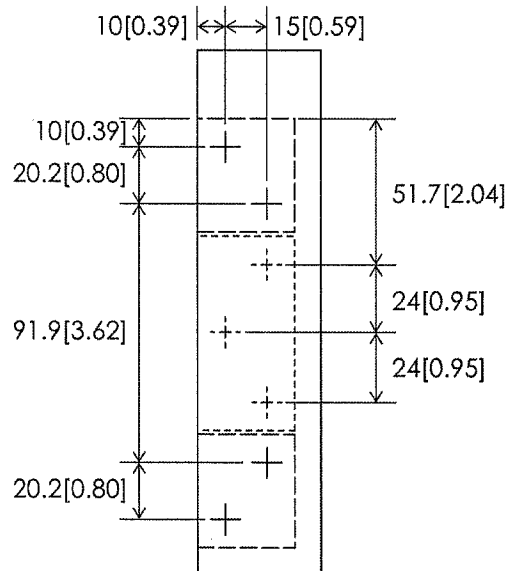
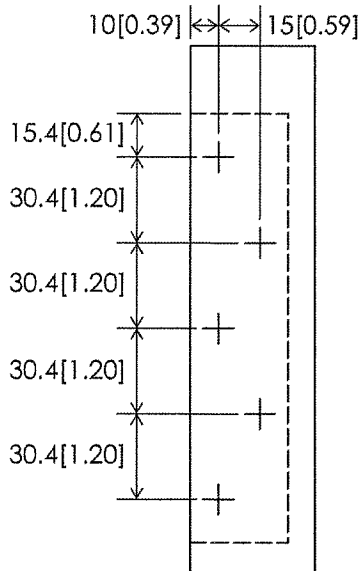
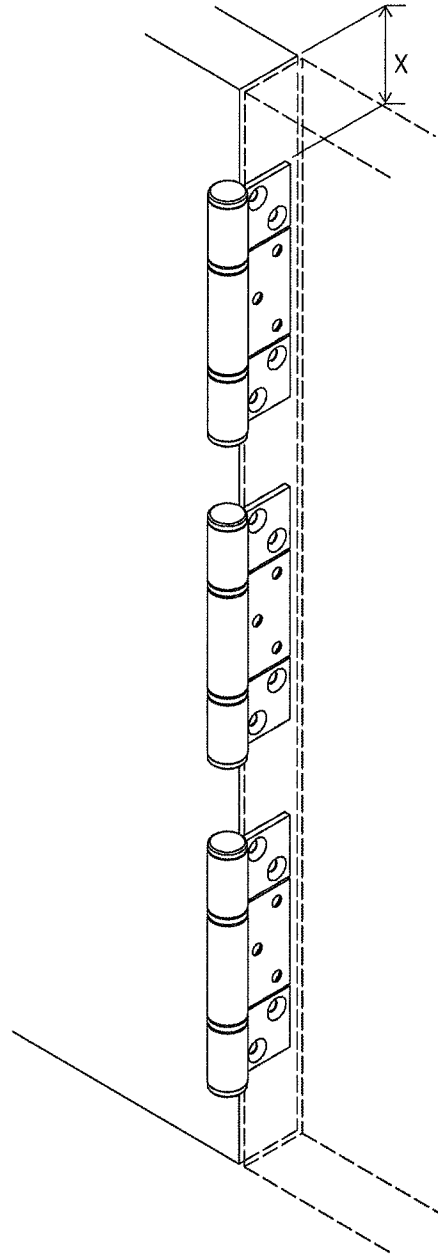
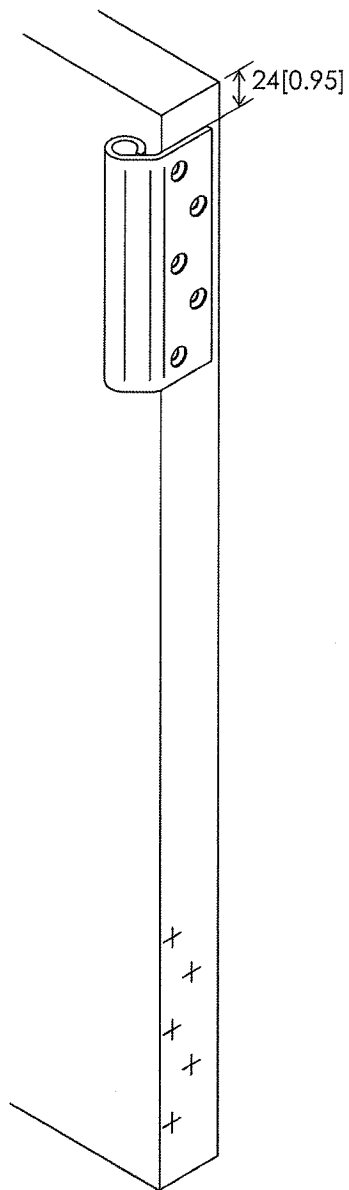
End panel meeting swing door



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

For Right: Interchange pivot arm

Flip base over

Handing pivot set hinge

For Right: Flip hinge

ANTI-SHAKE GRUB SCREW

LEFT

RIGHT

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

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

Installation of jamb pivot

HINGE PIN

Hinge aligns with other centre hinges

JAMB PIVOT BOLT

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

REBATE 7[0.28]

PIVOT PANEL

JAMB

PT

11[0.43]

30[1.18]

11[0.43]

10[0.39]

Ø18[0.71]

8[0.32]

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

Install flush bolt to panel

For square flush bolts chisel out corners

60 [2.36]

X

Counter bore for lockable flush bolts

41[1.61]

2.5[0.10]

11[0.43]

24[0.95]

Ø24[0.95]

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

Install keeper to sill

PIVOT PANEL

FLUSH BOLT

INSIDE

OUTSIDE

KEEPER

DUST BOX

8[0.32]

43[1.69]

X

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

Set 1

Set 2

Set 4

Set 7

Set 7

PIVOT PANEL

1ST INT. PANEL

2ND INT. PANEL

END PANEL

22[0.87]

18.6[0.73]

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

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

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

Screw fix base in place

Assemble pivot

ARM & HINGE

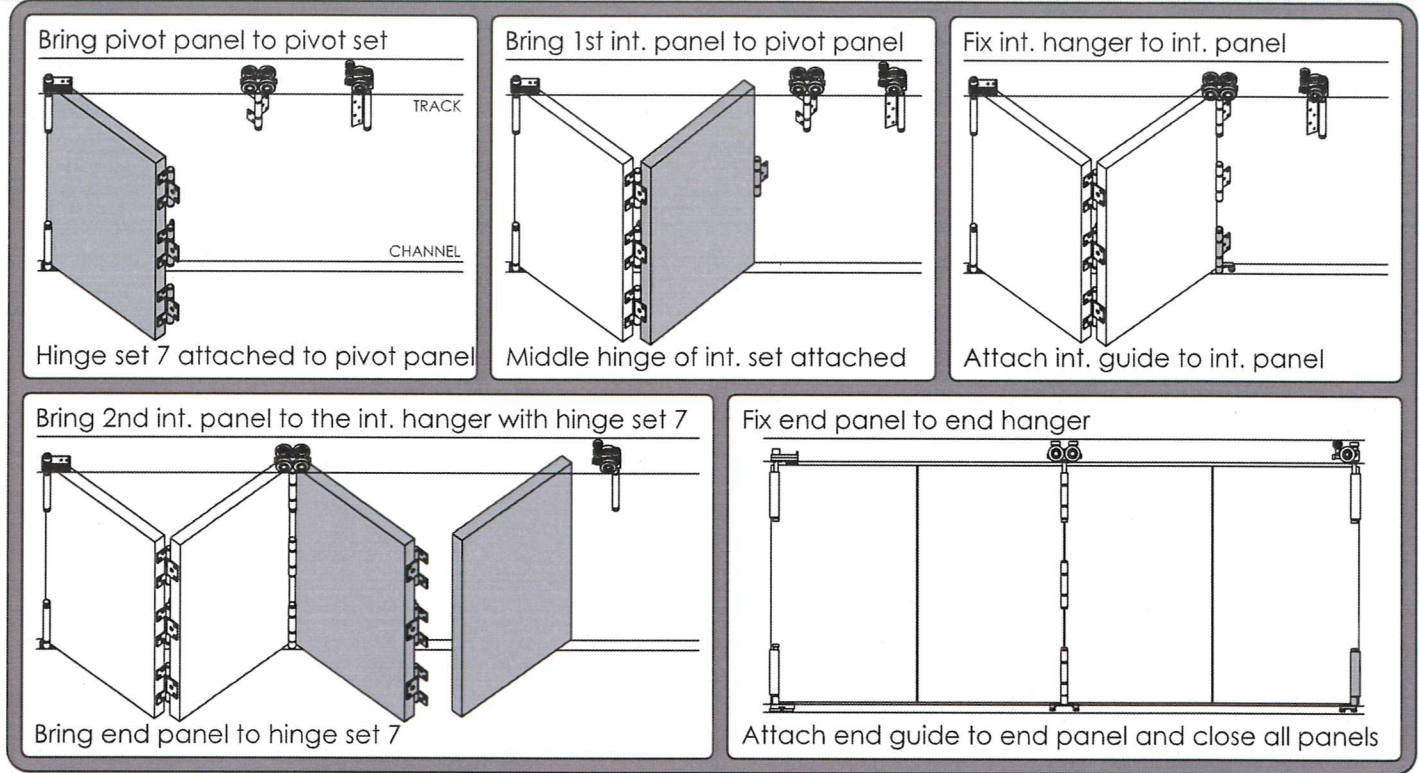
CAP SCREWS

CAM

When cap screws loose, pivot arm can slide freely

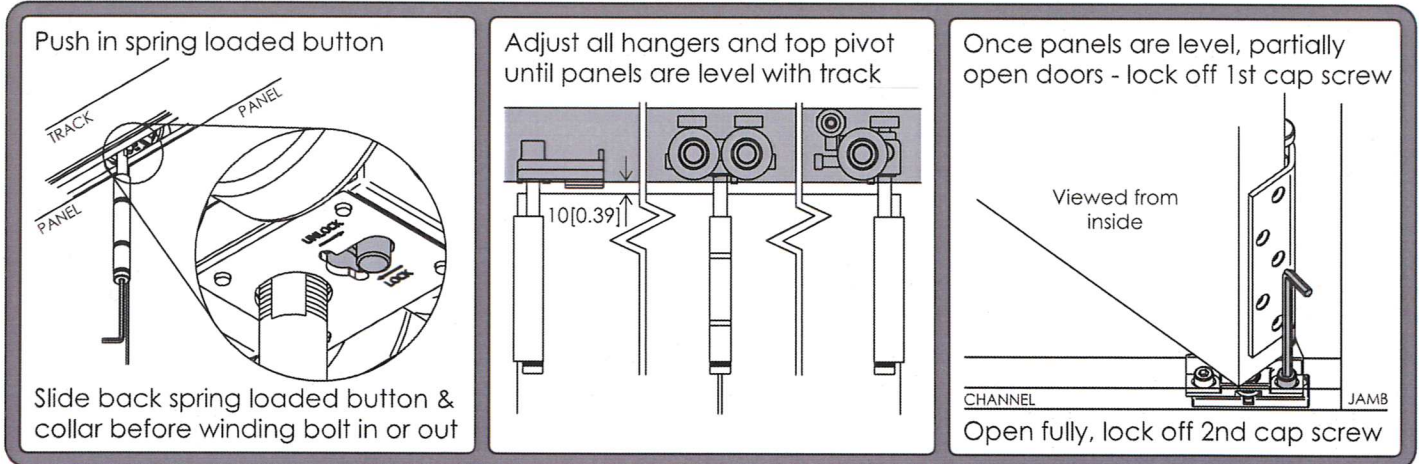
Securely assemble bottom pivot for installation

Hanging Panels

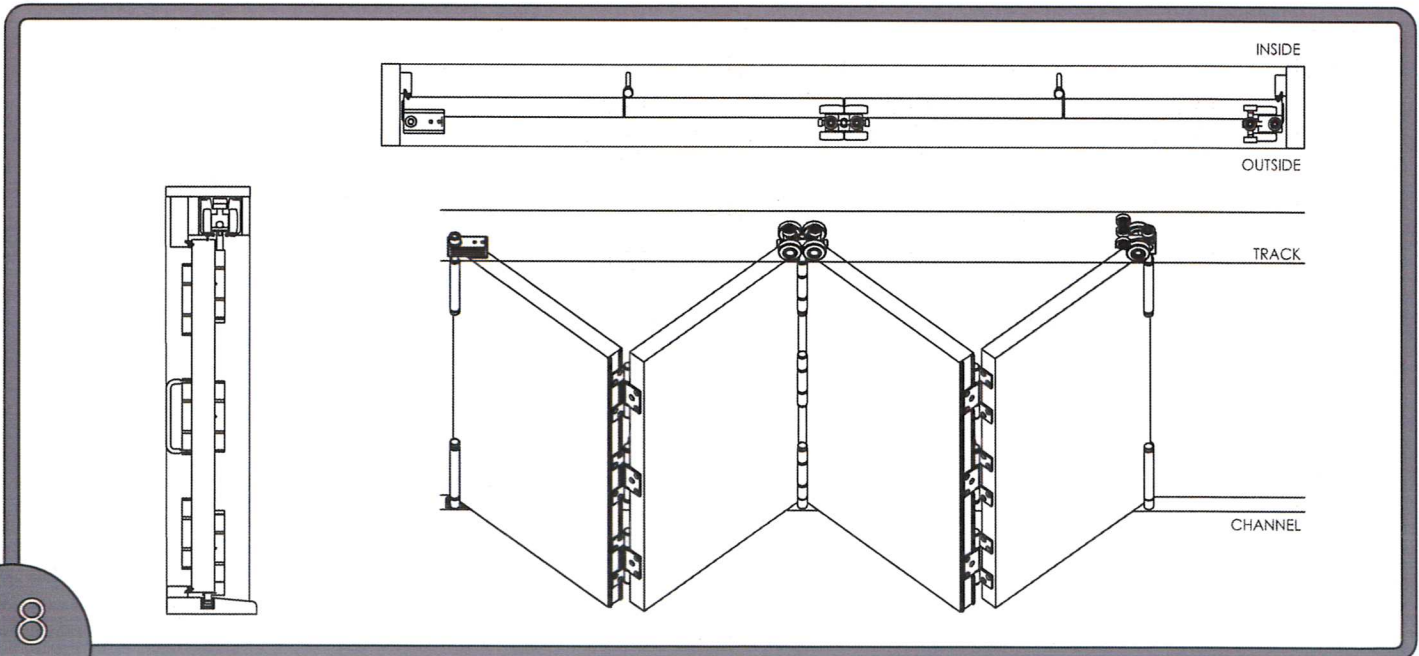


Adjustment

bolt locking mechanism applied to all hangers and top pivot



System Overview



Application

For heavy duty residential and commercial folding doors.

This section covers Weatherfold 4s 150 that accommodates thicker double glazed timber or aluminium panels weighing up to 150kg each.

The high-strength hinges are manufactured from 4mm thick stainless steel and are now available in a choice of Satin Stainless or PVD Black finish.

Weatherfold 4s 150 system comes standard within precision stainless steel bearings for maximum corrosion resistance.

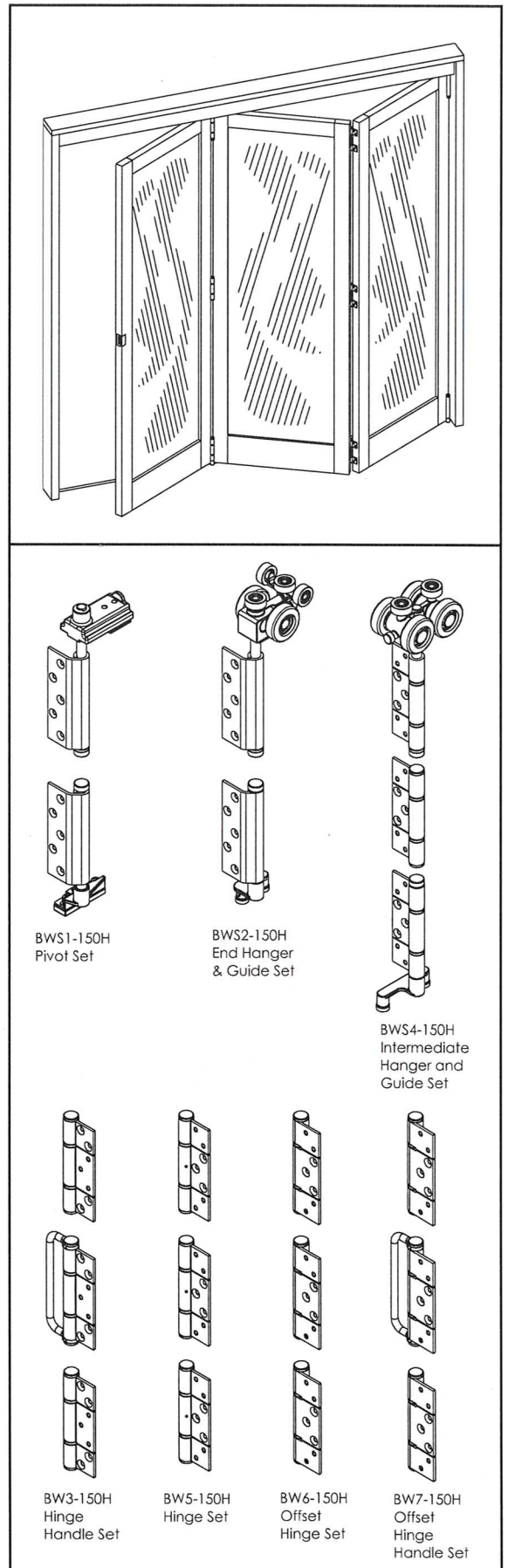
Door Specifications

Track System:	Weatherfold 4s 150
Max Panel Height	4000mm
Max Panel Weight	150kg
Max Panel Width	1200mm
Panel Thickness	44-68mm
Max No. of Panels	8 each direction

Hardware Specifications - Timber Panels

Track:	700
Material	Aluminium Clear Anodised
Standard Lengths	4000mm and 6000mm
Hanger Sets:	Includes Hanger, Guide and Hinge
Intermediate Hanger Set:	BWS4-150SH
End Hanger Set:	Includes Hanger and Guide BWS2-150SH
Pivot Sets:	Top & Bottom Pivots BWS1-150H
Jamb Pivot:	BW789H
Hinge Sets:	
Hinge Handle Set	BW3-150H
Offset Hinge Handle Set	BW5-150H
Hinge Set	BW6-150H
Offset Hinge Set	BW7-150H
Channels:	
Polyprop Plus Support	98PPA
Standard lengths	4000mm and 6000mm
Accessories:	
Flush Pull	401
Flush Bolt - 190mm	456R
Flush Bolt - 450mm	456RL
Flush Bolt - 600mm	456RLX-600
Flush Bolt - 1000mm	456RLX-1000
Flush Bolt - 190mm Bottom Inward Opening	456RIH
Flush Bolt - 190mm Top Necked	456RNH
Flush Bolt - 600mm Top Necked	456RLNH
Flush Bolt - 1000mm Top Necked	456RNXH
Mortice Lock	6200
Frame Seal - White	AQ21W
Frame Seal - Brown	AQ21B
Door Seal - White	AQ33W
Door Seal - Brown	AQ33B
Track Seal	PS13B

Finish options
Hardware: (SS) Satin Stainless.
Flushbolts: (SN) Satin Nickel.



**WEATHERFOLD 4s 150
(FOR TIMBER DOORS)**

