



Bi-Folding Systems for Timber Doors



Make it Once...Make it Mighton

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Mighton in Motion

Stylish and robust

The Mighton Bi-fold system is an extraordinarily robust system that will allow doors up to 1000mm wide and a weight of up to 60kg per panel. These incredibly large load capacities coupled with our unique 10 year warranty provides a worry free system that meets the most extreme demands. When used with quality door panels the Mighton Bi-fold is truly a system for all seasons without compromising on style. If you are looking for a stylish way of creating space, look no further.



Key Features

The unique patented system has a wide range of benefits that include:

- Incredibly easy height adjustment with auto-locking collar.
- Heavy duty precise hinges.
- Unique flush bolts that require only one router pass for installation.
- 10 year exclusive warranty.
- Pre-assembled locked carrier & guide hinges for quick installment.
- Unobtrusive, compact top tack – only 38mm square.
- Beautifully modern handle design.
- No more 'service calls'. Patented hinge system prevents gouging of weather seals.
- All outside edges of doors are aligned when open.
- Custom drilling jig to ensure simple and correct hinge fitting.

Built to last



Proven in some of the world's most extreme environments, the Mighton Bi-fold system carries a **10 year warranty**, giving you complete peace of mind. Years of development and testing have produced an immensely durable product that will withstand the demanding weather conditions we experience in the U.K, giving years of trouble free use.



Mighton in Motion

The superior design and build quality of the Mighton Bi-fold sliding door system will quite literally open the doors of opportunity to your dreams, designs and projects.

The Mighton Bi-fold system is a wonderful mixture of style and function with incredible build quality and looks great too. The contemporary styled handles with the patented hinge design and sleek flush bolts, all add up to a magnificent style statement that will compliment any building.



Specification:

Max Panel Weight	60kg	Min Panel Thickness	38mm
Max Panel Height	3000mm	Max number of panels	16 (8 each direction)
Max Panel Width	1000mm	Max opening Width	16 metres

Installation

These breath-taking modern sliding door systems are easier to install and use than you may think, and the Mighton Bi-fold system brings all the possibilities of a spectacular sliding door within your range.

- Straight forward, easy to understand instructions.
- Unique compact track allows for reduced frame section without compromising load capacity.
- Fast instalment with carrier and guide hinges that are pre-assembled and locked into position.
- Simple adjustment system.



Finishes

Manufactured using high quality 316 grade stainless steel, these systems are available in three different finishes. The polished stainless, stainless steel and polished brass finishes offer a style for everyone and allows the Mighton Bi-Fold System to be used in a variety of settings from traditional to contemporary.



System Overview

Style

Stylish design with substance, the Mighton Bi-fold system follows up build quality with an incredibly understated class that will benefit any door system. Smooth handles, compact track and beautiful flush bolts are only some of the features that make this system a class part. A design that has meticulous attention to detail means that all doors are aligned when open, giving a seamless look. These features help to create harmony between the internal and external, a seamless flow to the great outdoors.



Security

Manufactured to the highest standards, security has featured prominently in the design process. With concealed fixings, there are no external parts that can be undone or damaged, ensuring that the doors cannot be removed.

Stylish high quality flush bolts available as locking & non-locking are an additional feature of the Mighton Bi-Fold range. Simple to install these flush bolts require only one router pass, saving time and money during the installation process. An optional security snubber is also available to enhance the overall security. For complete security and peace of mind the Mighton Bi-fold System is the only option.





The runners are at the heart of the sliding door system and these specially designed runners that take up to 60kg with ease, ensure that your sliding doors will run smoothly for years to come. A unique patented collar adjustment system allows for easy adjustment using the locking collar and T bar spanner provided whilst still allowing the hinge to operate.

Beautiful flush bolts that provide not only security, but great looks as well. Available in locking and non-locking versions, these designer flush bolts will add a touch of class to your doors. Simple to install, only one router pass is required, saving time and money during installation.



The stunning designer handle is a stylish addition to the Mighton Bi-fold system. Manufactured in high grade 316 stainless steel, the contoured handle is a lot more comfortable than the traditional straight steel handles and not only looks great but is a pleasure to use.

A top track that is only 38mm square is a unique feature of the Mighton Bi-fold sliding door system. The specifically designed compact track allows the use of doors weighing up to 60kg avoiding an unsightly and bulky frame section without compromising capacity.



Bi-Fold Online Calculator



1. Click onto the Bi-Fold Door Tab.



2. Enter in your requirements for the frame size and panel configurations.



- Visit mightonproducts.com for an instant quote
- Detailed list of hardware required
- Machining & fitting instructions
- Email yourself a quote
- Downloadable brochures
- Simple to use

Please contact our advisors with any queries on 0800 056 0471 or go to our website to download the brochure.
www.mightonproducts.com



3. Hardware Finish

Finish: **Satin Stainless Steel** (dropdown menu with options: Satin Stainless Steel, Polished Stainless Steel, Polished Brass)

Optional Extras:

- Aluminium Self-Draining gill: No
- Magnets catches: No
- Seals replaced: No
- Bottom Seal: No
- Drinking Jug: No
- Flush Bolt Under Outlet: No

CLEAR When you are ready... **Calculate**

Required products for selected configuration

QTY	Code	Name	Price
1	BFD02-101-SS	Left Hand Pivot Set Satin Stainless Steel	£ 65.47
1	BFD02-103-SS	Right Hand Pivot Set Satin Stainless Steel	£ 65.47
1	BFD02-200M-SS	Meeting Center Set Satin Stainless Steel	£ 188.50
1	BFD02-400-SS	Intermediate Curbar Set Satin Stainless Steel	£ 102.38
1	BFD00-320-SS	Hinge Set With Handle Satin Stainless Steel	£ 01.97
2	BFD00-370-SS	Offset Hinge Set With Handle Satin Stainless Steel	£ 51.97
3	BFD00-FBL200L-SS	200mm Locking Flush Bolt Satin Stainless Steel	£ 30.00
3	BFD00-FBL200NL-SS	200mm Non-Locking Flush Bolt Satin Stainless Steel	£ 32.63
3	BFD00-FBR-200	Flush Bolt Keeper	£ 3.12
1	BFD00-TT8000-SAA	600mm Satin Anodised Aluminium Top Track	£ 115.50
1	BFD02-BT0000-SAA	600mm Satin Anodised Aluminium Bottom Track with Stack PVC Insert	£ 55.25
Sub Total:			£ 981.22

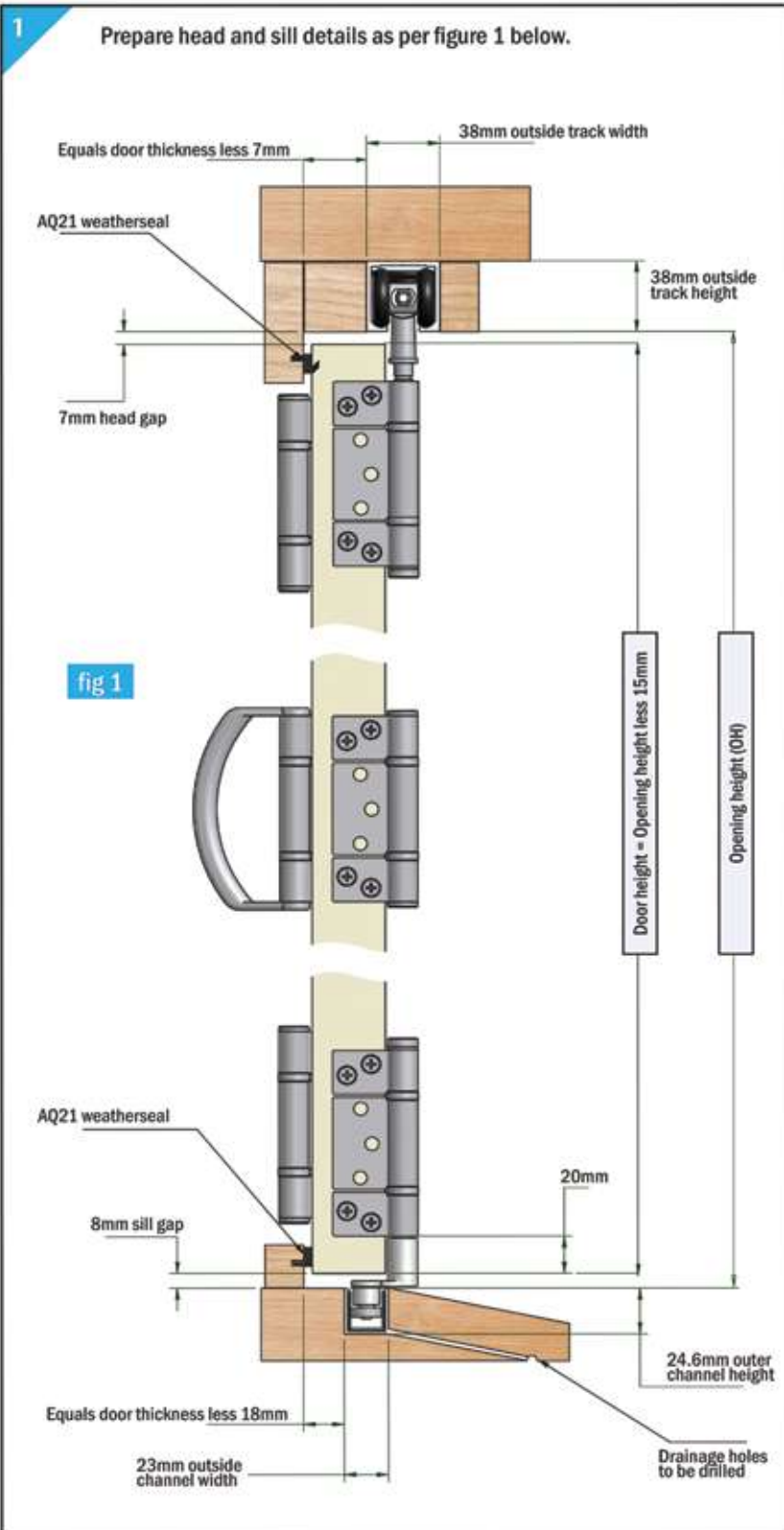
Amend Details **Add to Cart**

3. Choose the finish you want and add any optional extras and when you're ready press the calculate button.

4. Your calculations are all worked out for you, you can then add them to the cart.



Concealed Bi-Fold Door Fitting Instructions



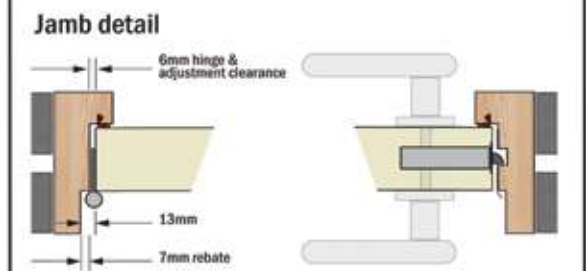
2a Calculate door leaf sizes.

Calculate your door sizes using the following method:

- Decide on a configuration layout (see enclosed Configuration Leaflet).
- With all configurations you need to allow for the following clearances:

Jamb to door - 13mm (outside rebate) or 6mm inside rebate. See jamb detail drawing below.
Door to door - 4mm
Bottom of door to sill - 8mm
Top of door to head - 7mm

Jamb detail



<p>Calculation formula</p> $\frac{IW - 12 - (4 \times (N-1))}{N} = DW$
<p>WORKED EXAMPLE</p> <p>3 right & 1 left configuration: Inside frame opening size: 4000mm wide x 2150mm high</p> $\frac{4000 - 12 - (4 \times (4 - 1))}{4} = \text{Door widths } 994\text{mm} \times 4$ $2150 - 7 - 8 = \text{Door height } 2135\text{mm}$ <p>Door sizes are 994mm wide x 2135mm high</p>
<p>Calculation key:</p> <p>IW = Inside frame width (measuring inside stepped rebate) DW = Door width N = Number of doors</p>

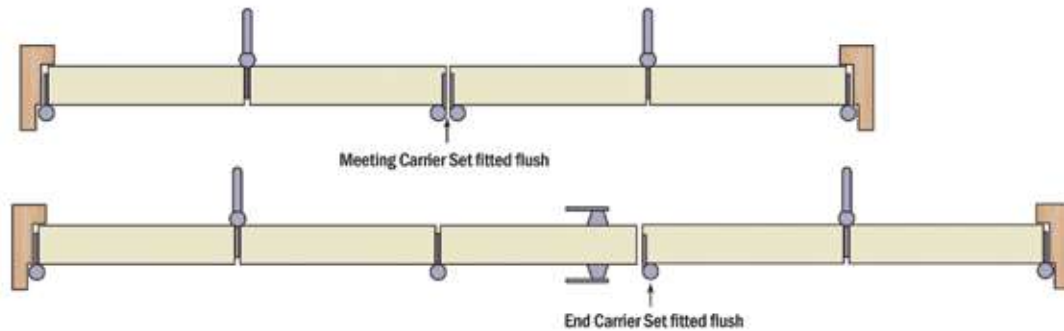
We recommend you calculate the door sizes using our Bi-Fold Door Calculator from our website www.mightonproducts.com. However you can manually calculate your door sizes using the above method.

2b

Fitting of End Carrier and Meeting Carrier Sets

It is recommended that End Carrier or Meeting Carrier Sets are recessed flush with door edge as shown below.

fig 2



3

Prepare doors and frame for weatherseals (figs 3, 4, 5). Flush bolts (fig 6) should be recessed using optional router cutter (part no. BFD60-RT002)

fig 3 Perimeter seal

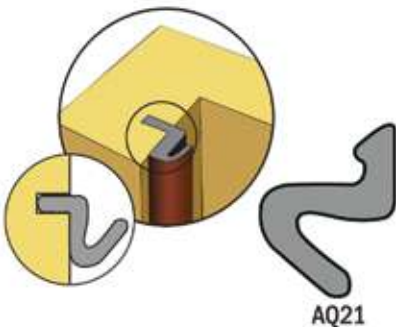


fig 4 Panel to Panel seal

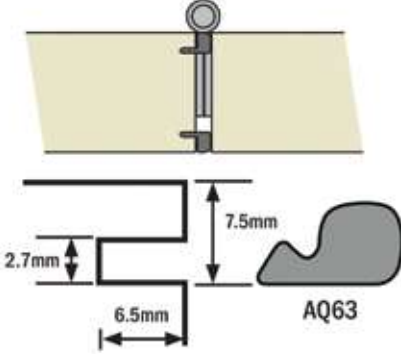


fig 5 Access Panel seal

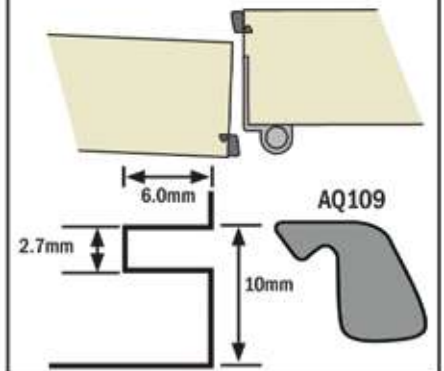
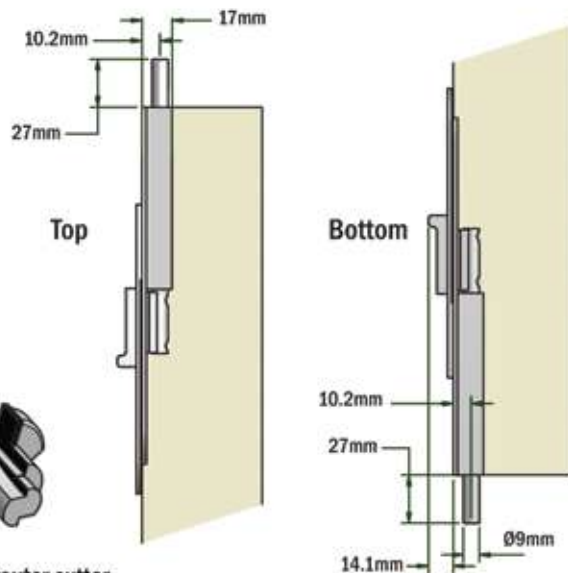
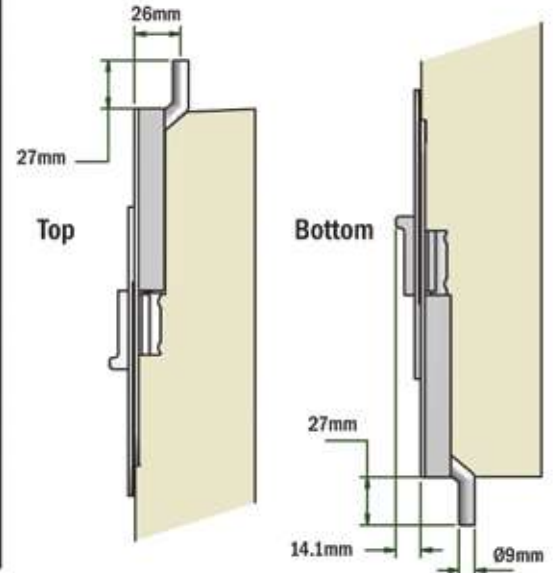


fig 6

Standard Flush Bolt - For outward opening doors

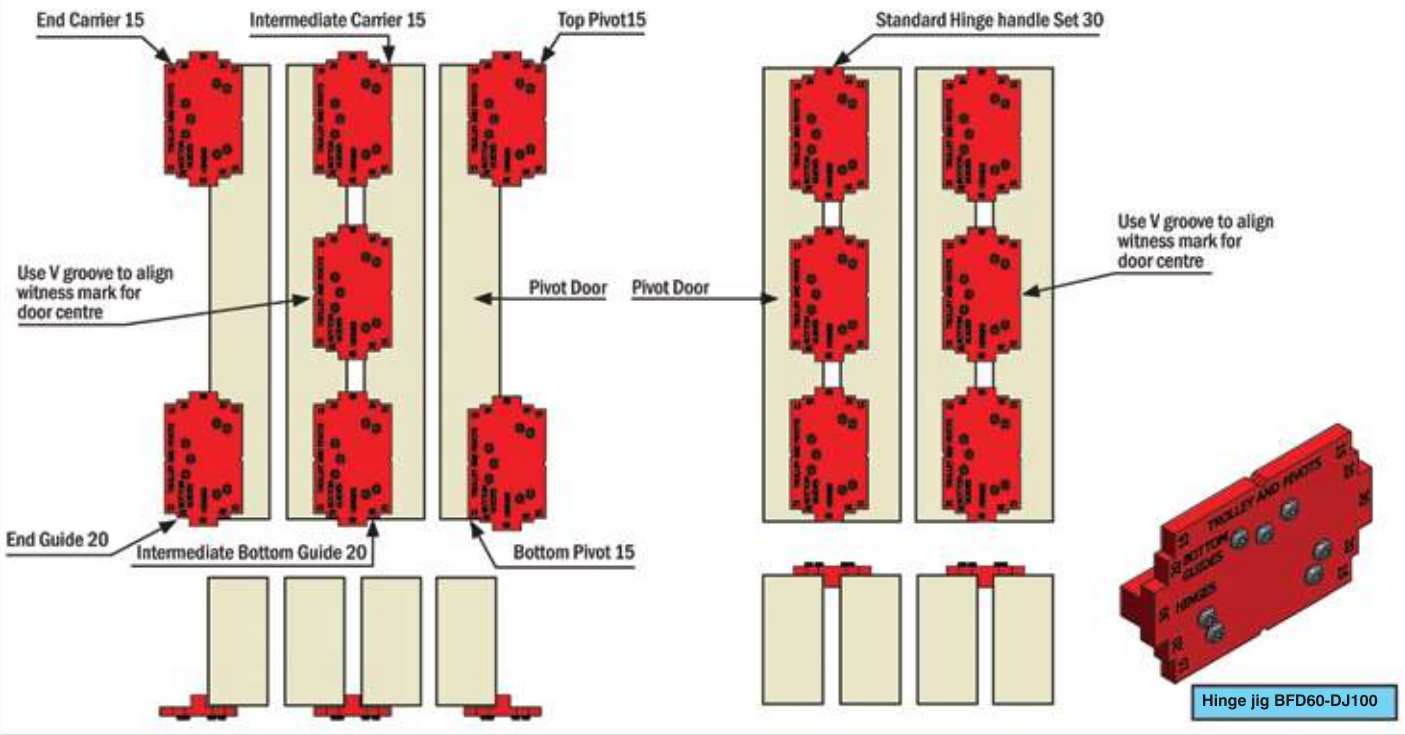


Cranked Flush Bolt - For inward opening doors

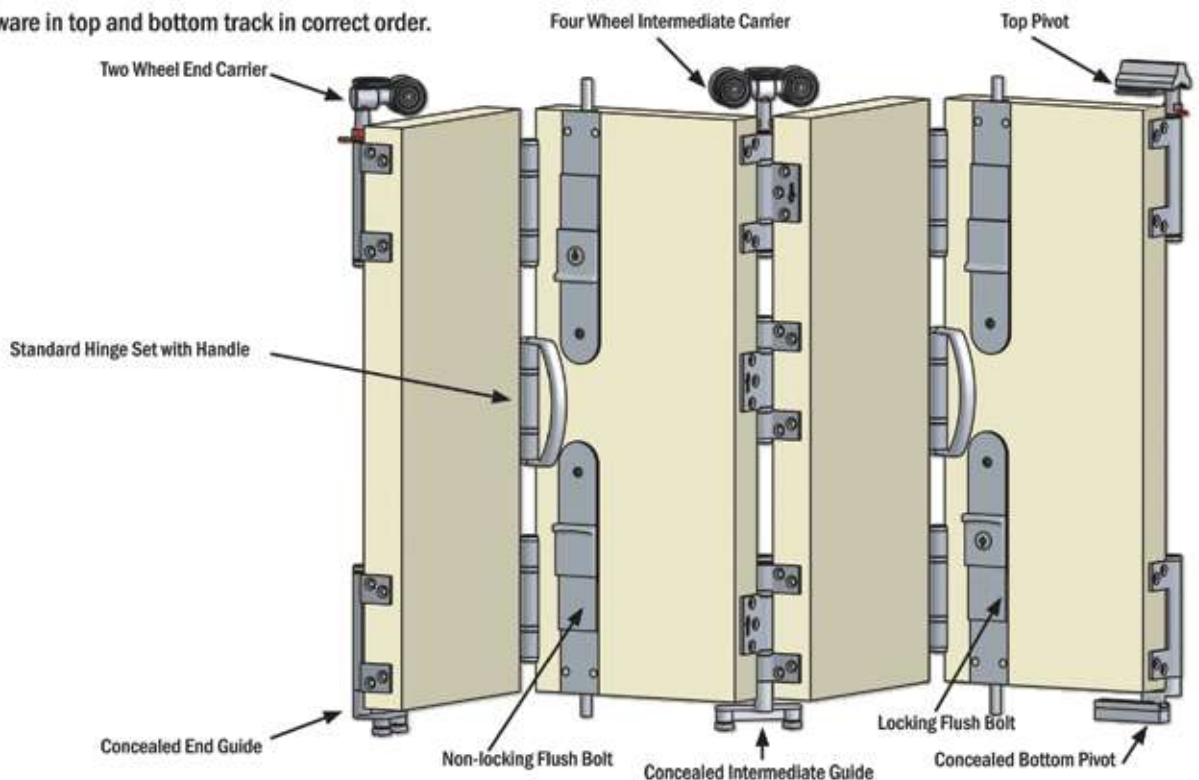


BFD60-RT002 router cutter

4 Pre-drill holes on door panels using optional hinge jig (part no. BFD60-DJ100).

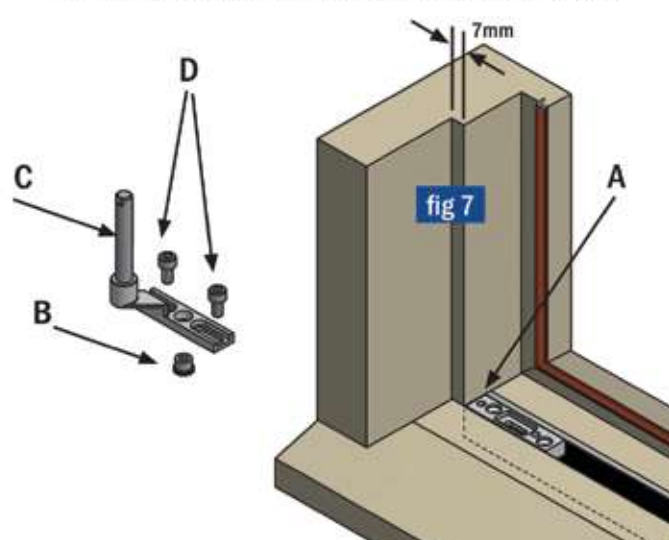


5 Place hardware in top and bottom track in correct order.



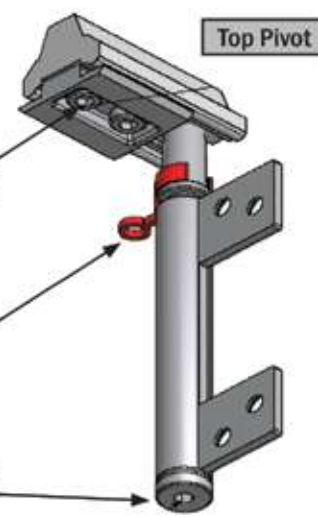
6 Mount bottom pivot hinge to bottom track (fig 7).

1. Disassemble Pivot then Place pivot base in bottom track with the gear side facing outside.
2. Align the back edge of pivot base with the jamb (A)
3. Drill pilot holes using the base as a template and then fix with screws provided.
4. Fit gear wheel (B) and top plate (C) and fix with Hex drive cap screws (D)



7 Fix bottom pivot hinge flap to jamb leaf using pre-drilled holes made in Step No.4, then place jamb leaf on bottom pivot pin and fix top pivot via pre-drilled holes made in Step No.4.

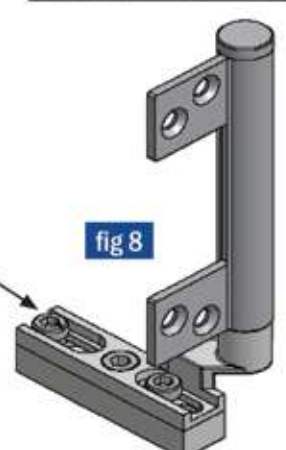
8 Adjust height of jamb leaf via top pivot. fig 9



Top Pivot

- Tighten clamp to track via screws
- Pull down metal locking sleeve and engage red locking collar clip into slot prior to adjusting and discard after use
- Adjust height using hex drive T-bar

9 Adjust plumb of jamb leaf via top or bottom pivot. Concealed Bottom Pivot



Loosen screws and rotate gear to adjust level fig 8

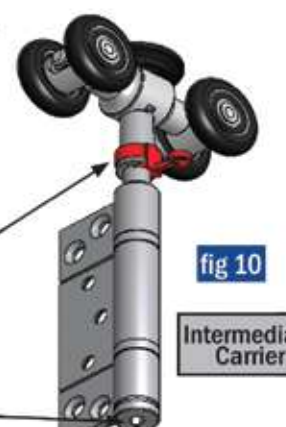
10 Mount hinge sets to intermediate leaves via pre-drilled holes made in Step No.4.

11 Mount intermediate panel to jamb leaf via pre-drilled holes made in Step No.4.

12 Repeat step 11 for all intermediate leaf doors.

13 Fix intermediate or end carrier sets to intermediate panel(s).

14 Adjust end or meeting carriers as per fig 10 if required.



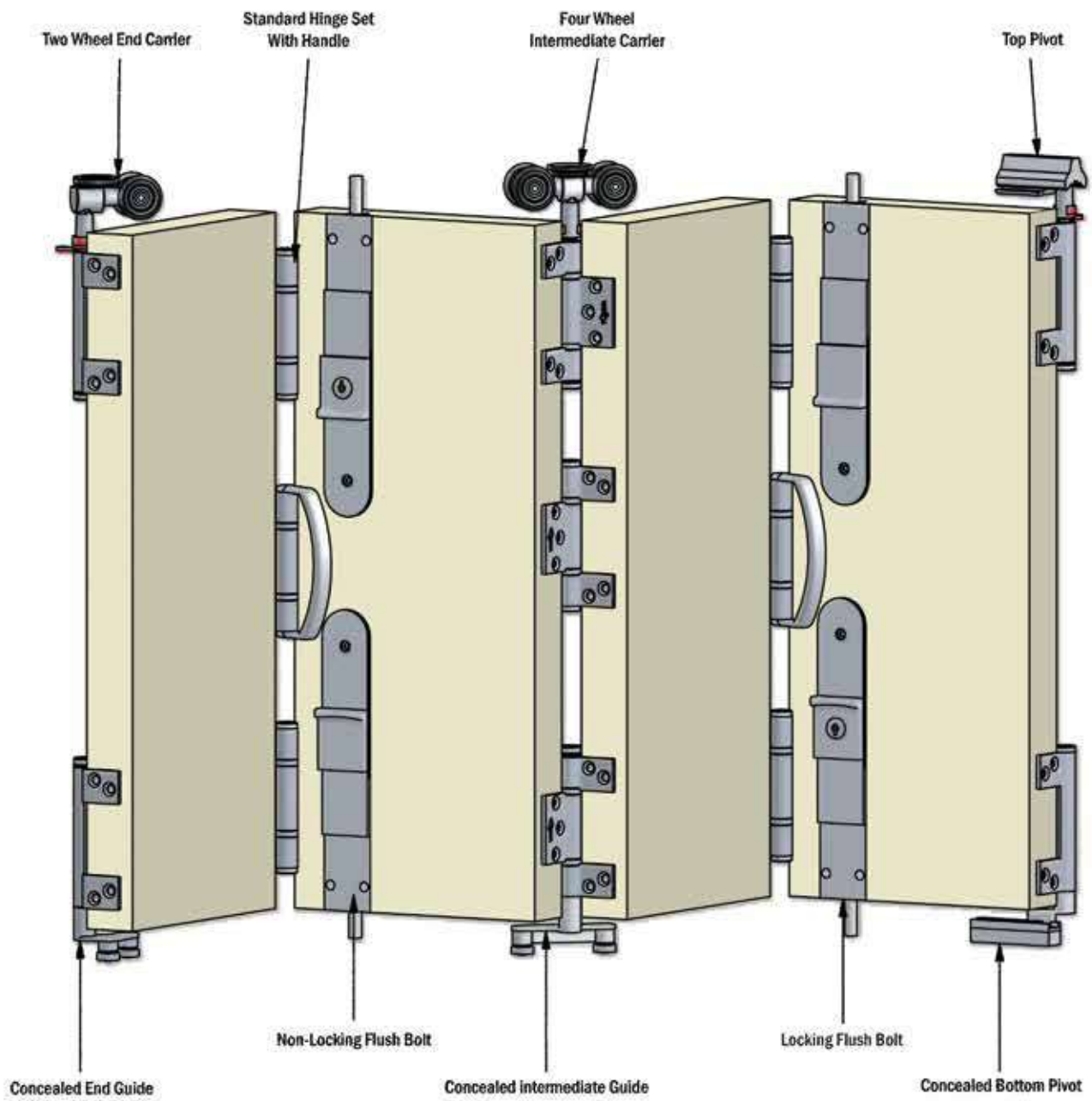
Intermediate Carrier

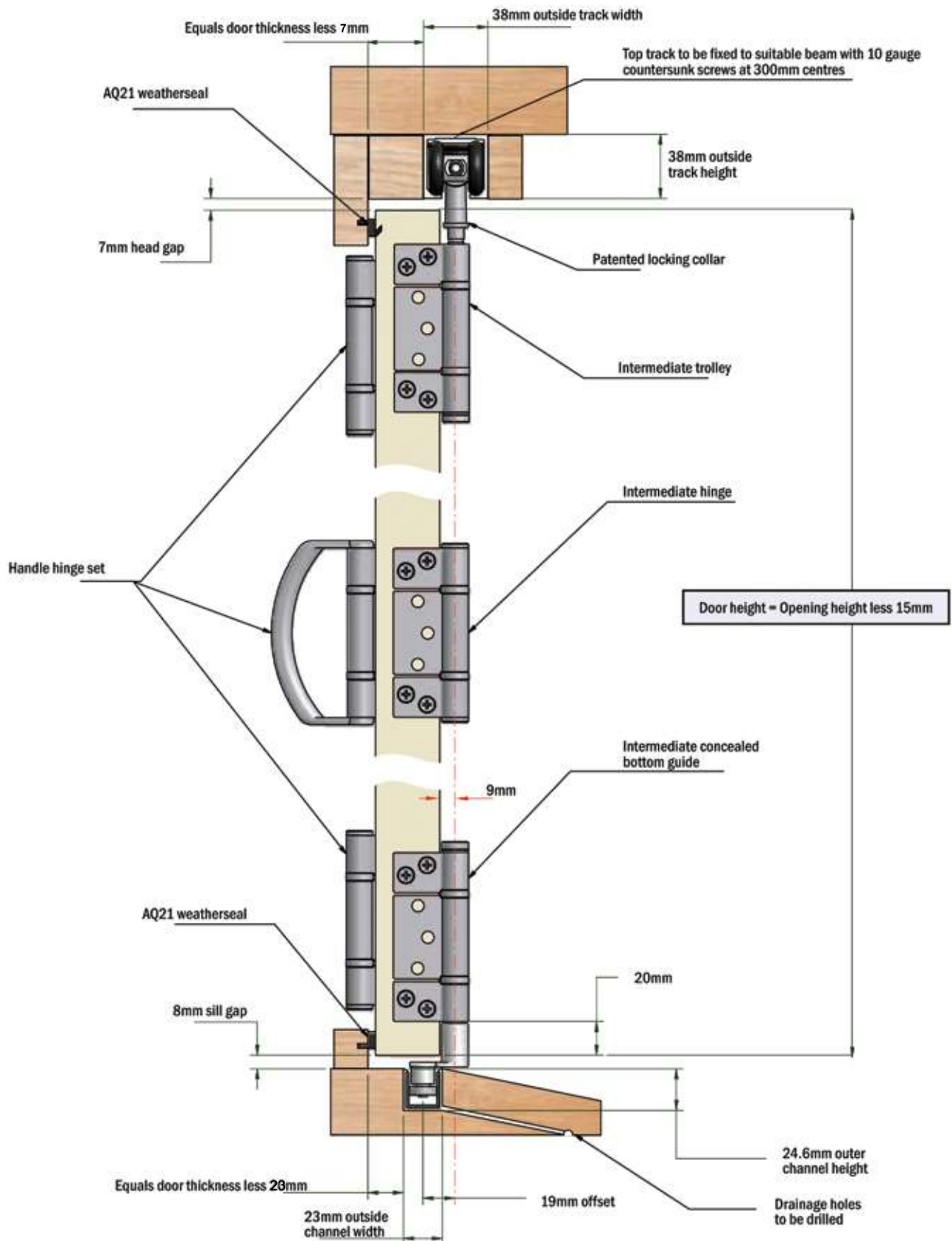
- Pull down metal locking sleeve and engage red locking collar clip into slot prior to adjusting and discard after use
- Adjust height using hex drive T-bar

fig 10

15 Mount flush bolts and accessories to doors, head and sill.

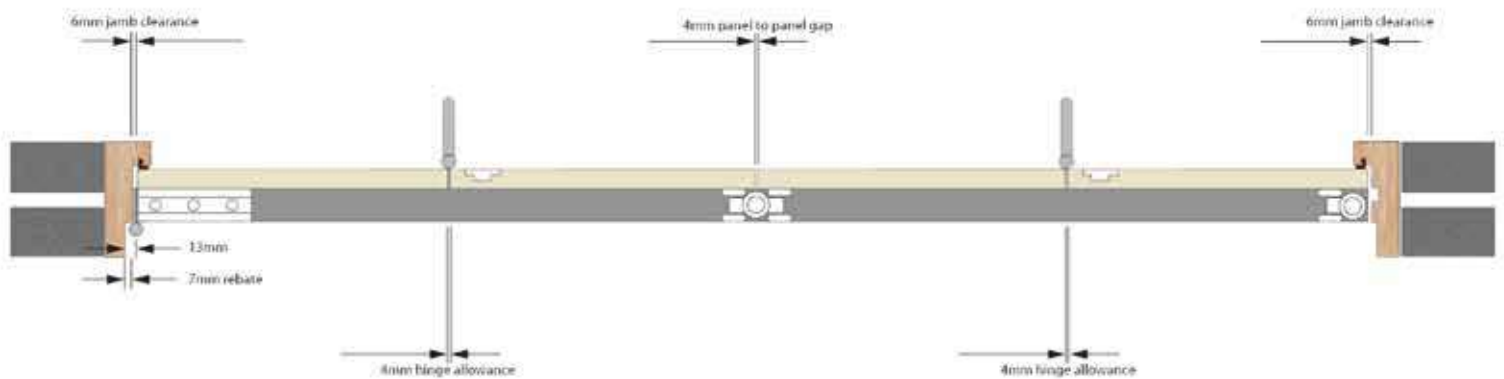
Architectural Detail



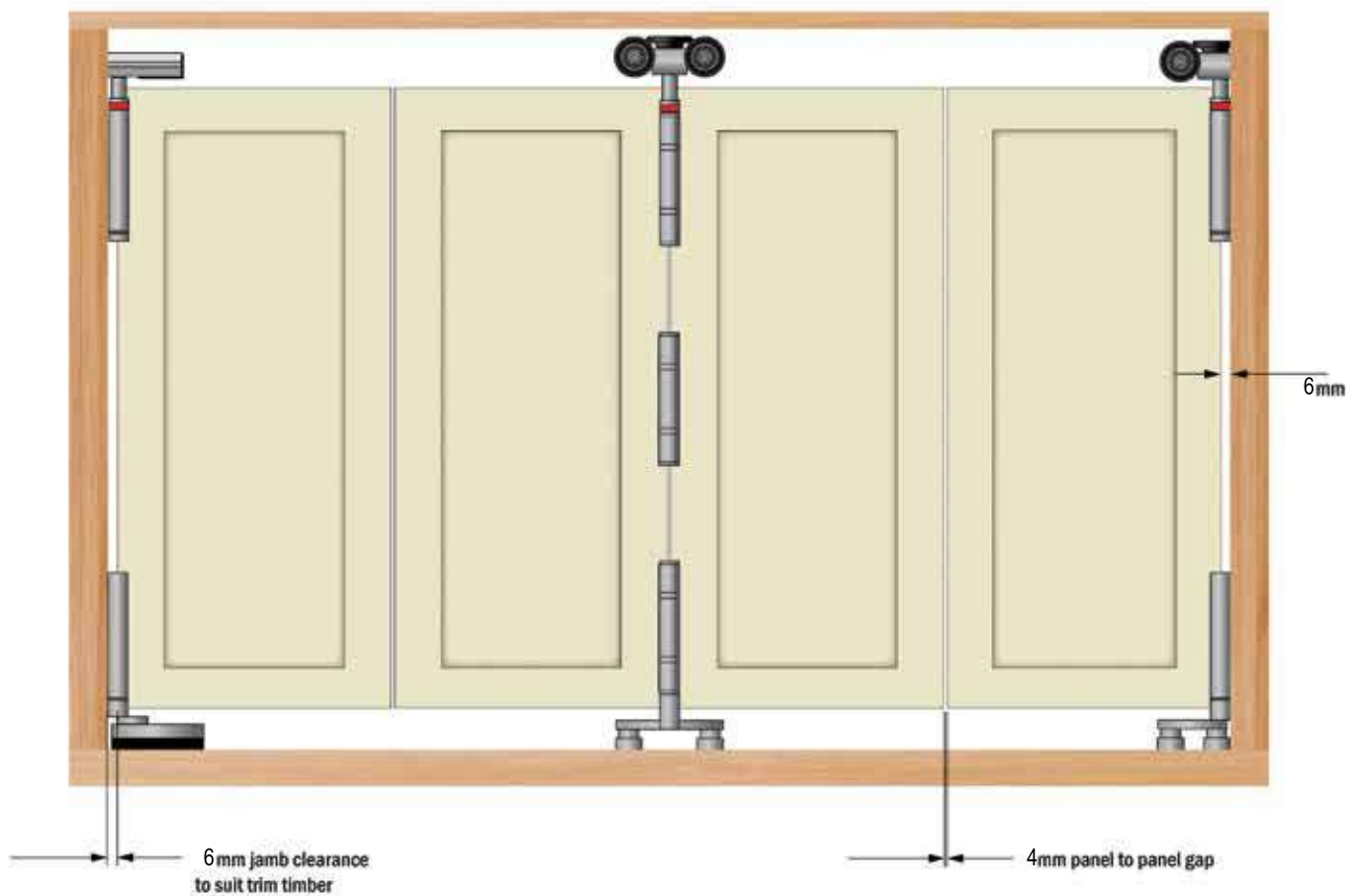


Architectural Detail - Door and Jamb Clearances

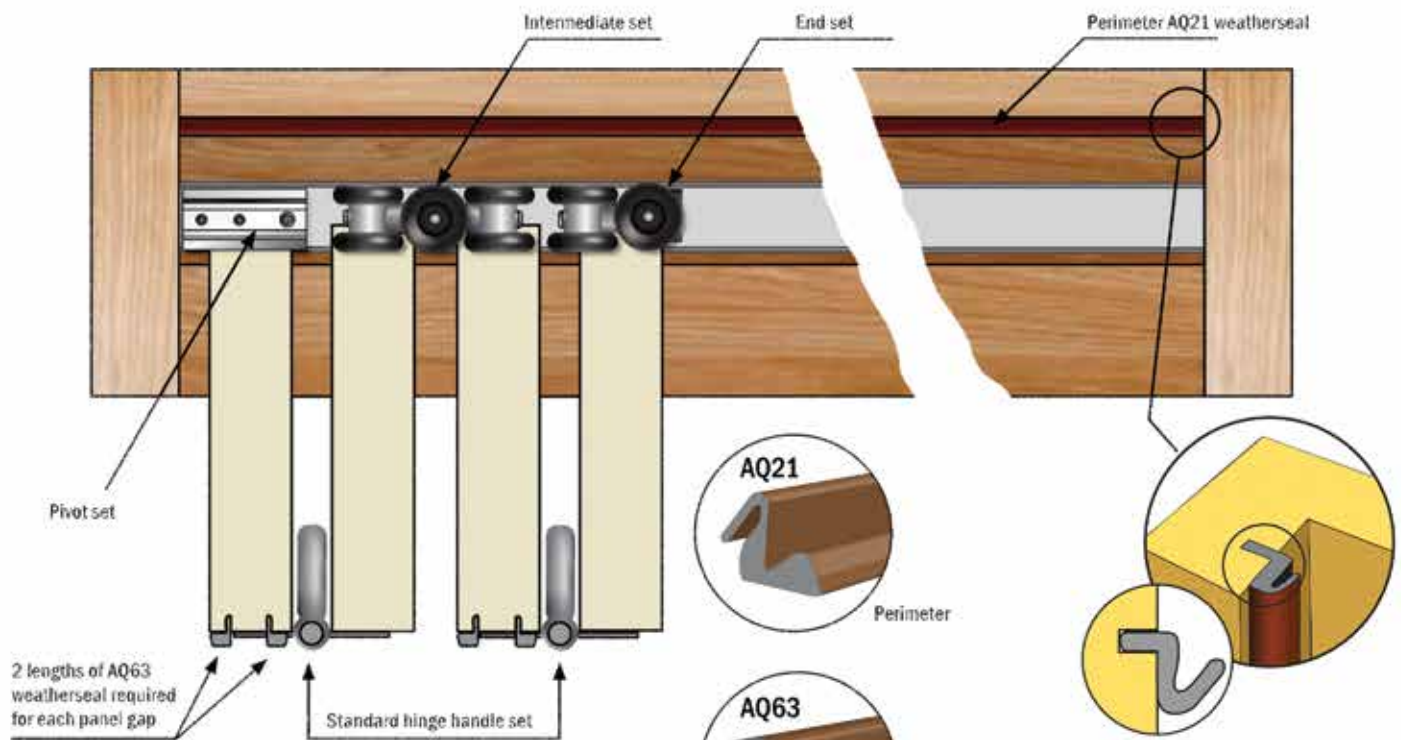
EXAMPLE SHOWS 4 DOOR LEFT CONFIGURATION



Note:
 All folding equal panels shown
 Top and bottom track not shown

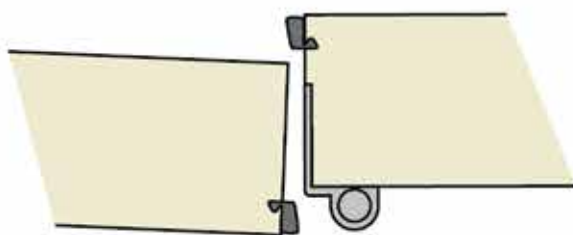


Architectural Detail - Plan View and Weatherseal



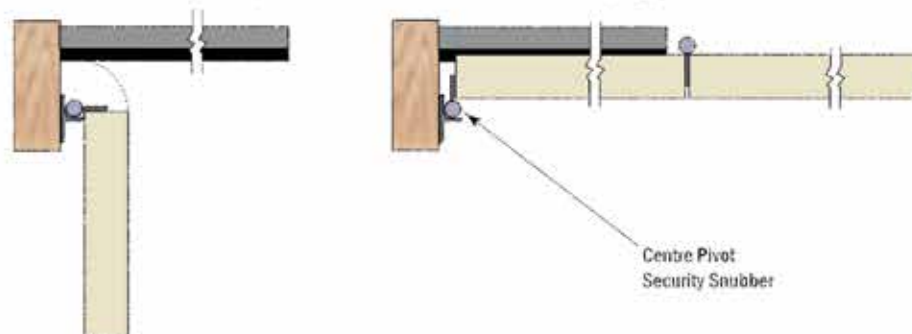
ACCESS DOORS

Meeting faces each require one length of AQ109 weatherseal



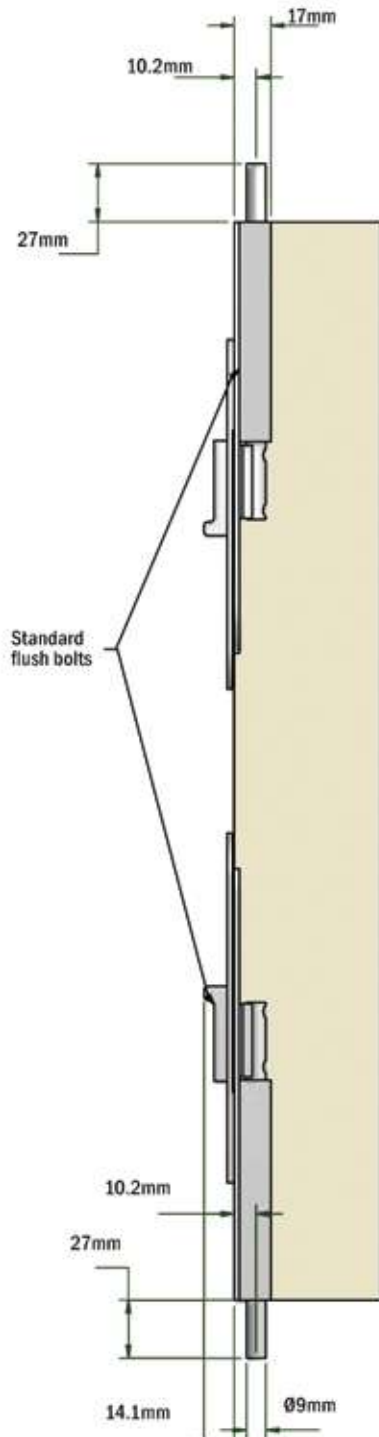
CENTRE PIVOT SECURITY SNUBBER DETAIL

Increases security and prevents door movement and warping

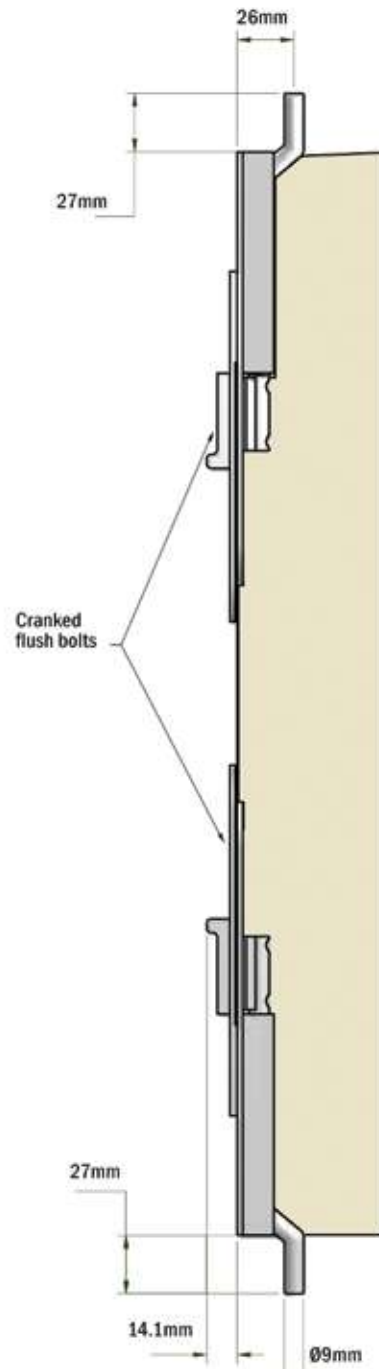


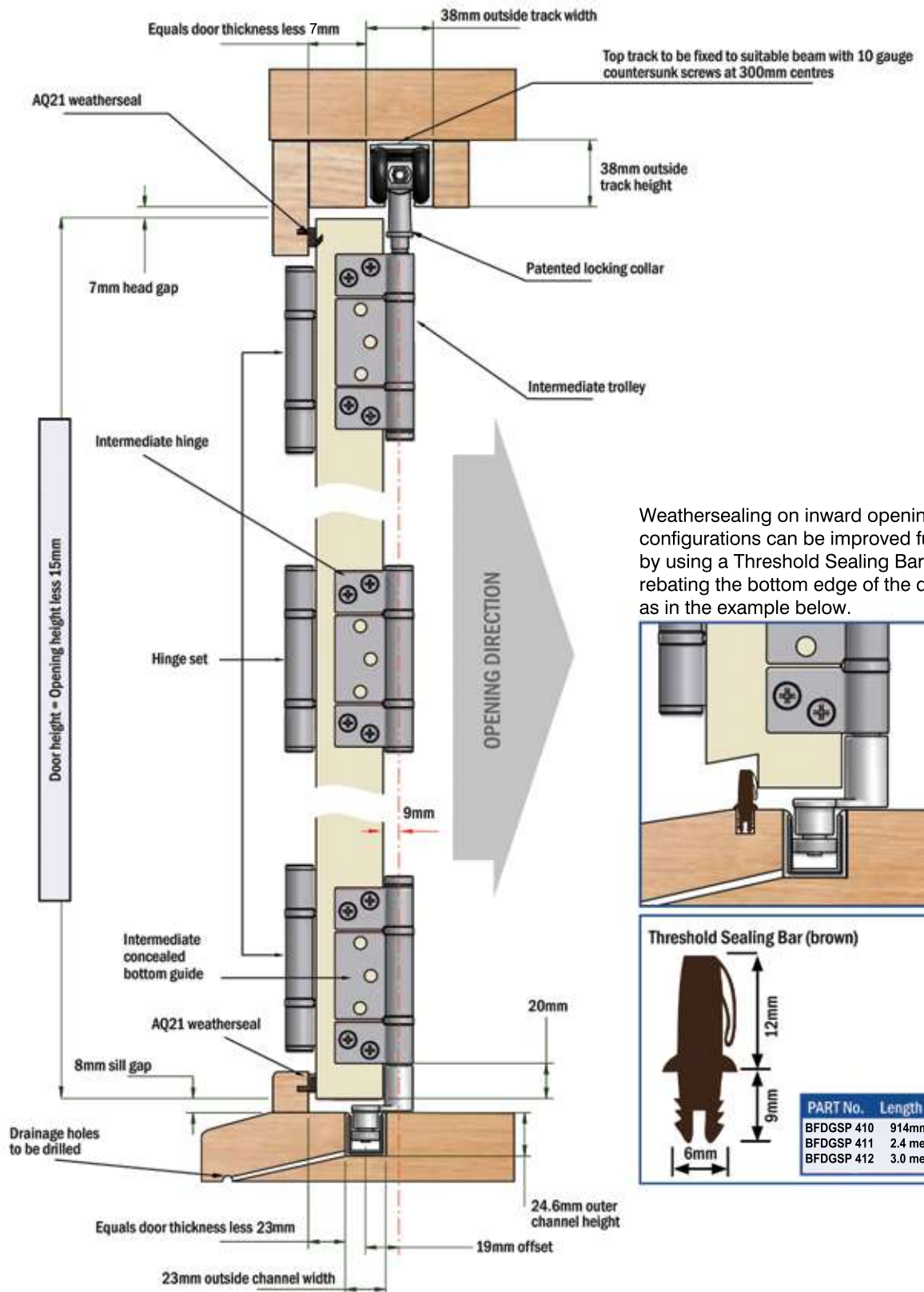
Architectural Detail - Flush Bolt

STANDARD FLUSH BOLTS
For outward opening doors

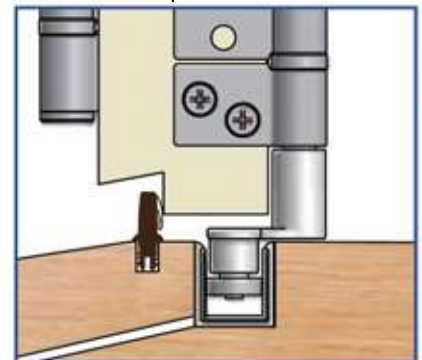


CRANKED FLUSH BOLTS
For inward opening doors

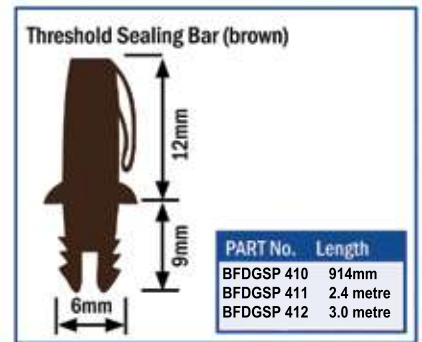




Weathersealing on inward opening configurations can be improved further by using a Threshold Sealing Bar and rebating the bottom edge of the door as in the example below.



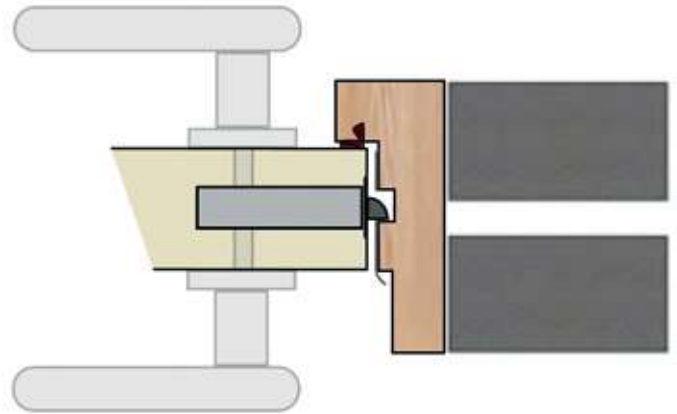
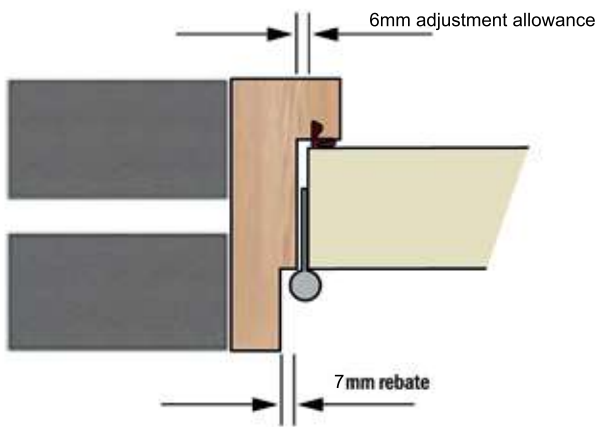
Threshold Sealing Bar (brown)



PART No.	Length
BFDGSP 410	914mm
BFDGSP 411	2.4 metre
BFDGSP 412	3.0 metre

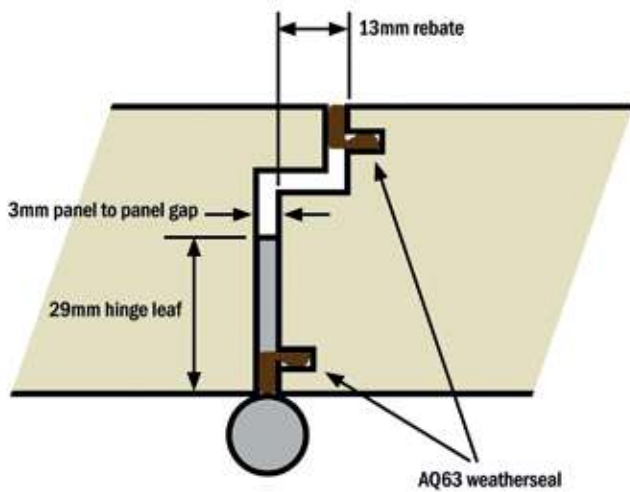
STEPPED REBATE OPTION

This can either be achieved by rebating the frame or using a separate packer which is fitted afterwards.



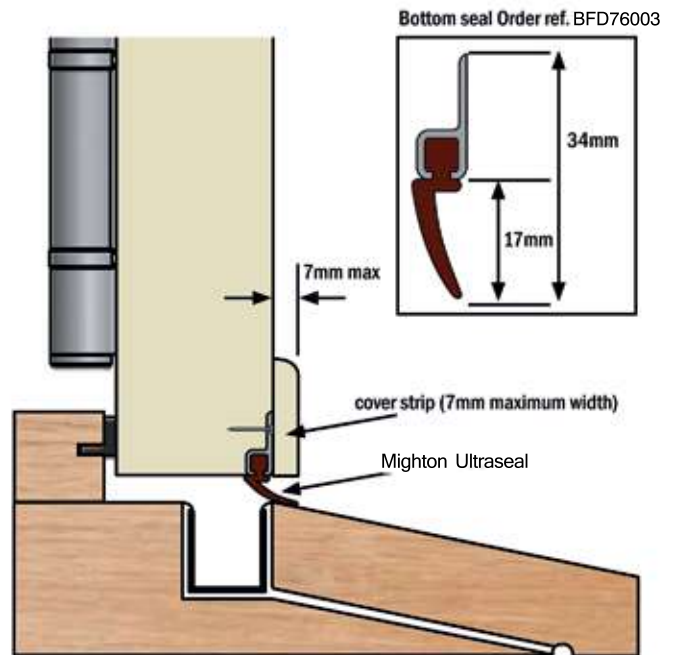
OPTION IF REBATED DOORS REQUIRED

Not recommended for doors under 45mm in thickness.



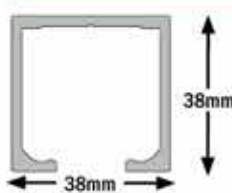
OPTIONAL BOTTOM SEAL (outward opening configurations only)

This is a useful addition which greatly reduces the possibility of water and debris entering the bottom guide channel on outward opening configurations.



Track and Guides

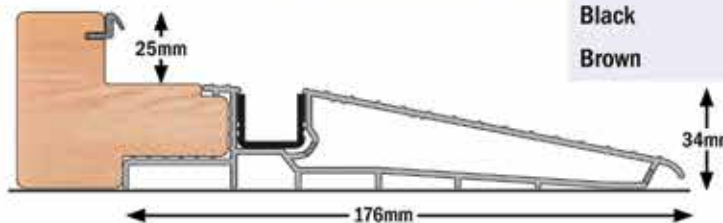
TOP TRACK Pre-drilled and countersunk

ITEM	FINISH
	Satin Anodised

CONCEALED BOTTOM TRACK Pre-drilled and countersunk

ITEM	FINISH
	Satin Anodised Black PVC Insert

SILL

ITEM	DESCRIPTION	FINISH
	Aluminium Self-Draining Sill	Satin Anodised Black Brown



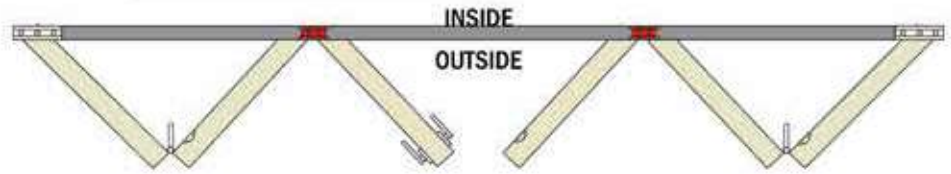
Carrier Sets

INTERMEDIATE CARRIER SET

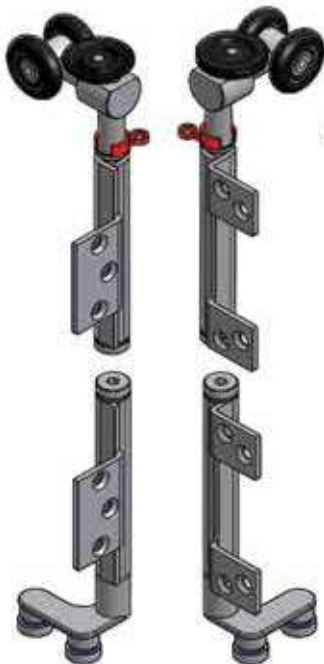


FINISH

- Polished Brass
- Polished Stainless
- Satin Stainless

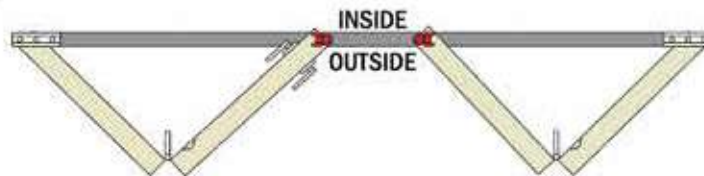


MEETING CARRIER SET



FINISH

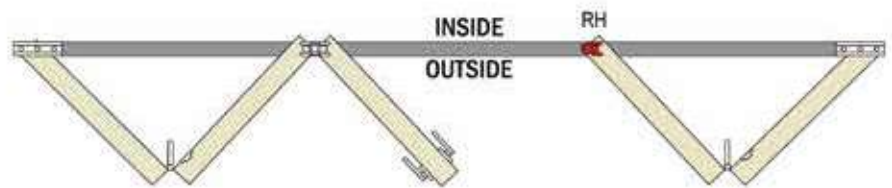
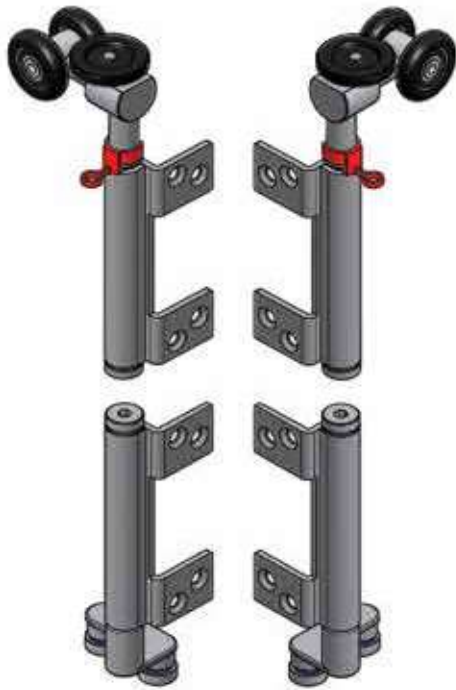
- Polished Brass
- Polished Stainless
- Satin Stainless



OFFSET END CARRIER SET LH OR RH

FINISH

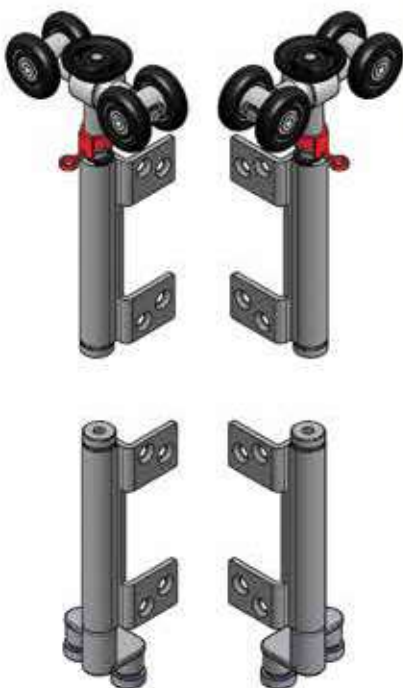
- Polished Brass
- Polished Stainless
- Satin Stainless



FOUR WHEEL OFFSET & CARRIER SET LH OR RH

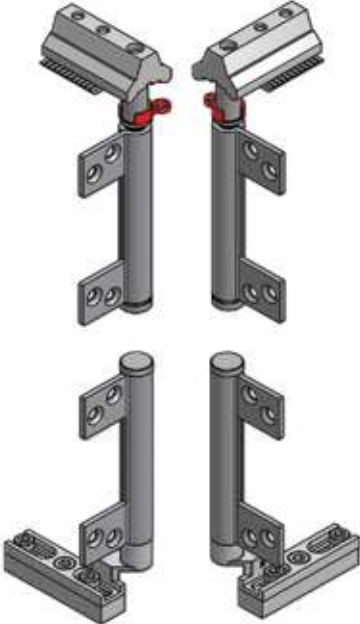
FINISH

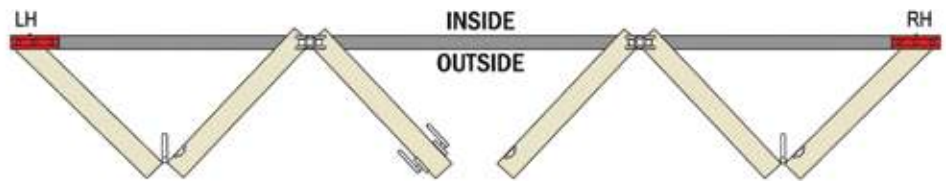
- Polished Brass
- Polished Stainless
- Satin Stainless



Pivot Sets

LEFT & RIGHT HAND

ITEM	FINISH
 <p>Left hand Right hand</p>	Polished Brass Polished Stainless Satin Stainless



SECURITY SNUBBER

ITEM	DESCRIPTION	MATERIAL	FINISH
	Security Snubber	SS	Satin Stainless



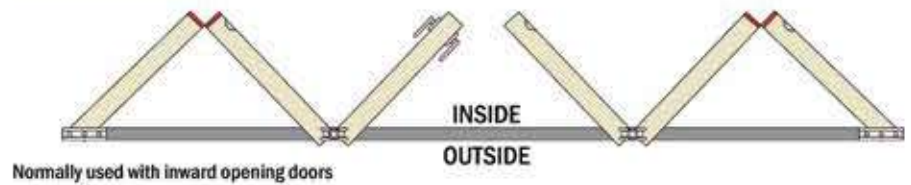
Hinge Sets

HINGE SET WITHOUT HANDLE



FINISH

Polished Brass
Polished Stainless
Satin Stainless

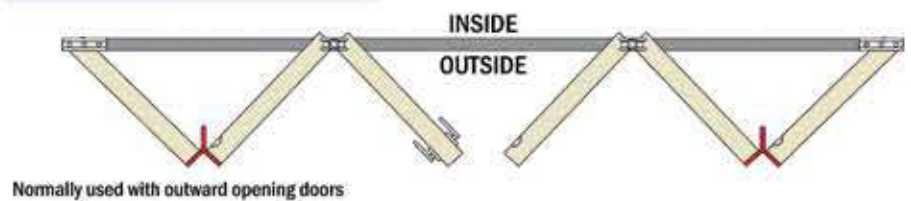


HINGE SET WITH HANDLE



FINISH

Polished Brass
Polished Stainless
Satin Stainless



EXTRA HINGE (Required for doors over 2200mm high)

ITEM	FINISH
	Polished Brass
	Polished Stainless
	Satin Stainless



HANDLE HINGE

ITEM	FINISH
	Polished Brass
	Polished Stainless
	Satin Stainless



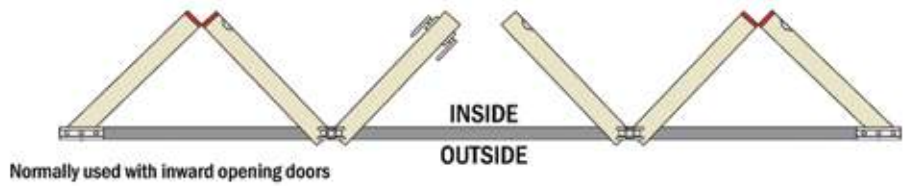
HINGE DRILL JIG

MATERIAL	FINISH
Cast Poly	Red



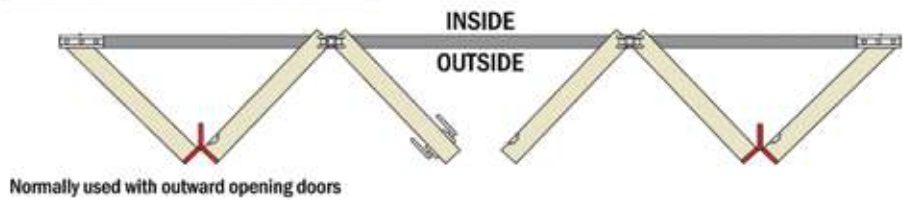
OFFSET HINGE SET WITHOUT HANDLE

ITEM	FINISH
	Polished Brass
	Polished Stainless
	Satin Stainless



OFFSET HINGE SET WITH HANDLE

ITEM	FINISH
	Polished Brass
	Polished Stainless
	Satin Stainless



EXTRA HINGE (Required for doors over 2200mm high)

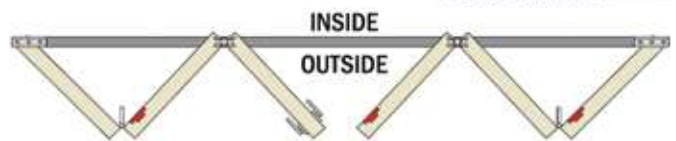
ITEM	FINISH
	Polished Brass
	Polished Stainless
	Satin Stainless

Flush Bolts

FLUSH BOLTS FOR OUTWARD OPENING DOORS

LOCKING	SIZE	FINISH
	200mm	Polished Brass
		Polished Stainless
		Satin Stainless
	400mm	Polished Brass
		Polished Stainless
		Satin Stainless

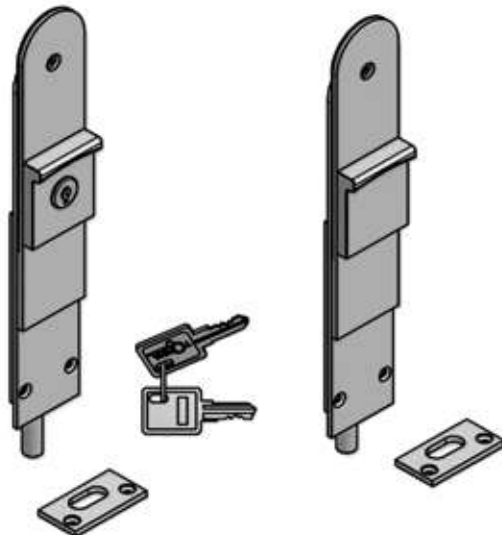
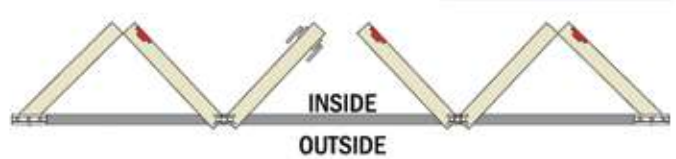
NON-LOCKING	SIZE	FINISH
	200mm	Polished Brass
		Polished Stainless
		Satin Stainless



FLUSH BOLTS OFFSET FOR INWARD OPENING DOORS

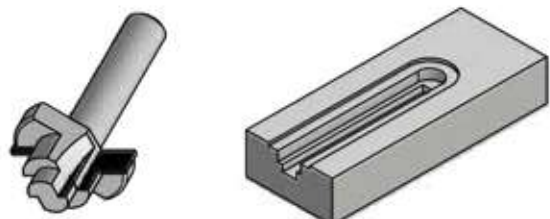
LOCKING	SIZE	FINISH
	200mm	Polished Brass
		Polished Stainless
		Satin Stainless
	400mm	Polished Brass
		Polished Stainless
		Satin Stainless

NON-LOCKING	SIZE	FINISH
	200mm	Polished Brass
		Polished Stainless
		Satin Stainless

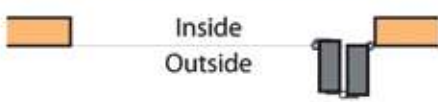
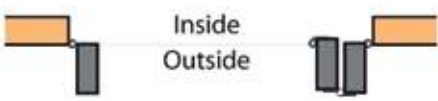
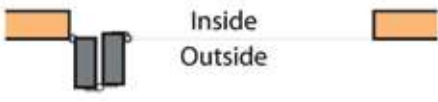
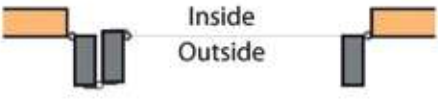
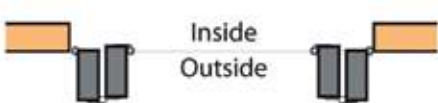
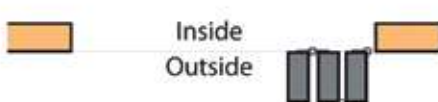
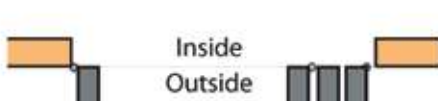


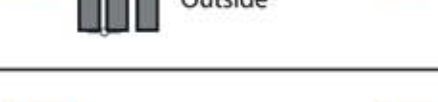


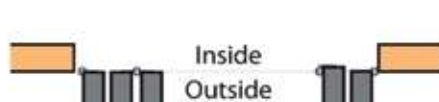
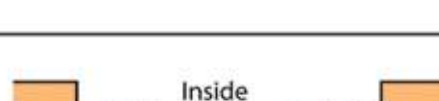
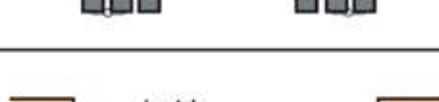
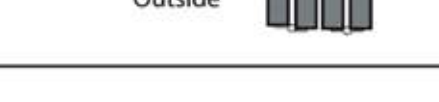
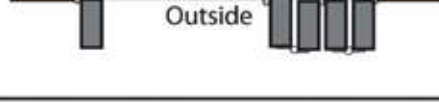



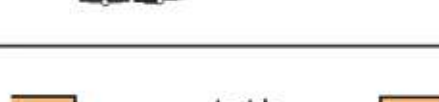
FLUSH BOLTS KEEPS	FINISH
	Black PVC



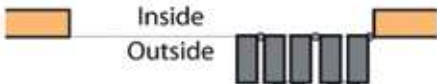






ROUTER CUTTERS	HAND
	Right


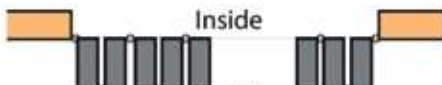

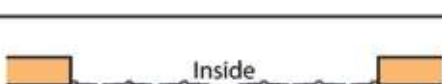


Outward Opening Configuration - Please use straight flush bolts.
Hinge sets with handles are normally used for outward configurations.

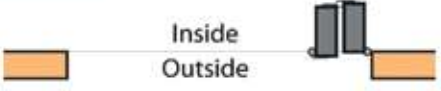
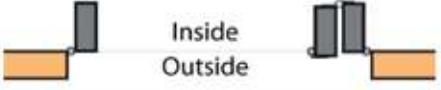
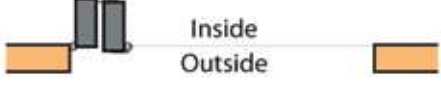
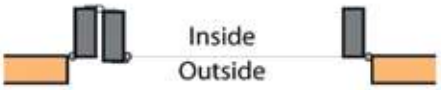


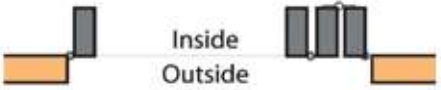

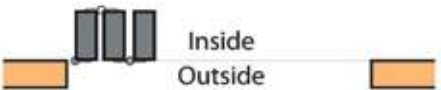

ID	CONFIGURATION
2R	
2R 1L	
2L	
2L 1R	
2L 2R	
3R	
3R 1L	
3R 2L	
3L	
3L 1R	










ID	CONFIGURATION
3L 2R	
3L 3R	
4R	
4R 1L	
4R 2L	
4R 3L	
4L	
4L 1R	
4L 2R	



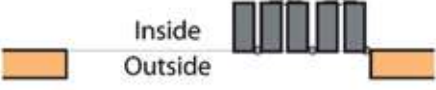

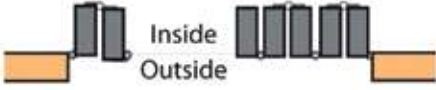




ID	CONFIGURATION
4L 3R	
4L 4R	
5R	
5R 1L	
5R 2L	
5R 3L	
5R 4L	
5L	
5L 1R	



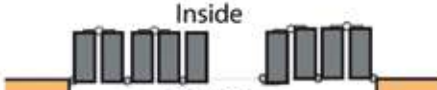
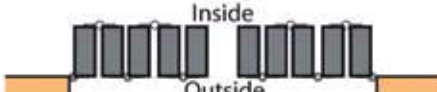
ID	CONFIGURATION
5L 2R	
5L 3R	
5L 4R	
5L 5R	

Inward Opening Configuration

ID	CONFIGURATION
2R/I	
2R 1L/I	
2L/I	
2L 1R/I	
2L 2R/I	
3R/I	
3R 1L/I	
3R 2L/I	
3L/I	
3L 1R/I	

ID	CONFIGURATION
3L 2R/I	
3L 3R/I	
4R/I	
4R 1L/I	
4R 2L/I	
4R 3L/I	
4L/I	
4L 1R/I	
4L 2R/I	

ID	CONFIGURATION
4L 3R/I	
4L 4R/I	
5R/I	
5R 1L/I	
5R 2L/I	
5R 3L/I	
5R 4L/I	
5L/I	
5L 1R/I	

ID	CONFIGURATION
5L 2R/I	
5L 3R/I	
5L 4R/I	
5L 5R/I	



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