

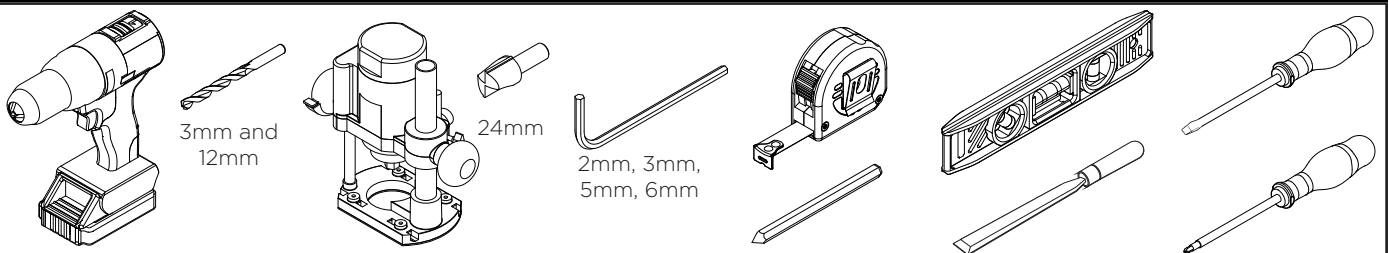
FITTING INSTRUCTIONS

KIT INFORMATION

Kit 1 - Pivot Assembly			Kit 2 - End Hanger			Kit 3 - Hinge Handle Set (Outward Opening)	
Standard	Mortice Round	Non-Mortice	Standard	Mortice Round	Non-Mortice	Mortice Round	Non-Mortice
SFP1*	SFRP1*	SFWP1*	SFP2*	SFRP2*	SFWP2*	SFR3*	SF3*
Kit 4 - Intermediate Hanger Assembly		Kit 5 - Hinge Set (Inward Opening)		Kit 6 - Hinge Set Offset (Inward Opening)		Kit 7 - Hinge Handle Offset (Outward Opening)	
Mortice Round	Non-Mortice	Mortice Round	Non-Mortice	Mortice Round	Non-Mortice	Mortice Round	Non-Mortice
SFR4*	SF4*	SFR5*	SF5*	SFR6*	SF6*	SFR7*	SF7*
Kit 8 - End Hangers for Meeting Doors		Kit 9 - Intermediate Pivot Hinge			Kit 10 - Handle		
Standard	Non-Mortice	Standard	Mortice Round	Non-Mortice	Standard		
SFP8*	SFWP8*	SF9*	SFR9*	SFW9*	SF10*		

Note: * Indicates Finish: S - Satin, G - Gold, C - Chrome, B - Black

TOOLS REQUIRED



OVERVIEW

Diagram 1

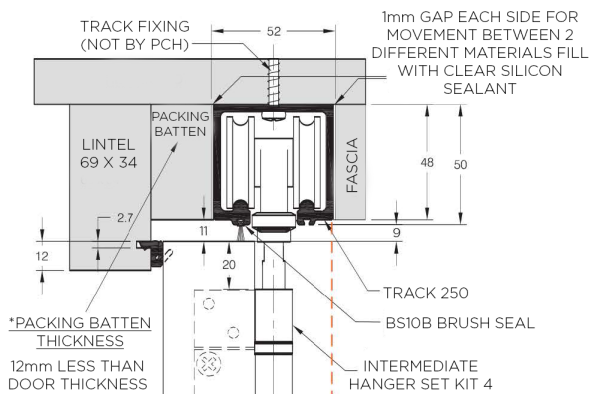
System Capacity

- Maximum leaf height- 3300mm
- Maximum leaf width- 1000mm
- Maximum leaf weight- 100kg
- Maximum leaf thickness- 35-68mm

On systems using door leaves that are narrow and thick, and the hypotenuse is more than the door width x 1.004, then a risk of camming exists (see diagram 12).

*For doors between 35-44mm an alternative to the Securefold Flushbolt is required.

**For thicker or thinner doors please contact PC Henderson



INSIDE

OUTSIDE

Diagram 2

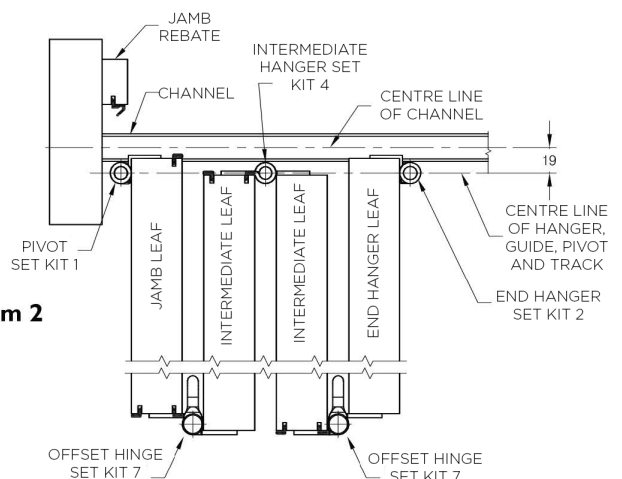


Diagram 3

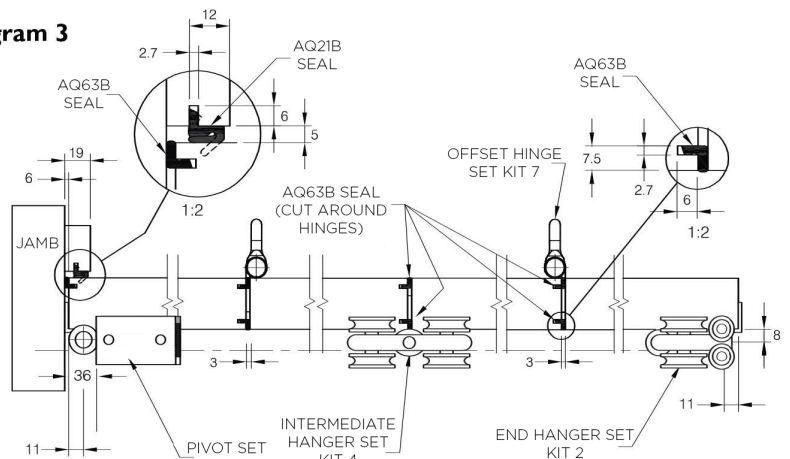
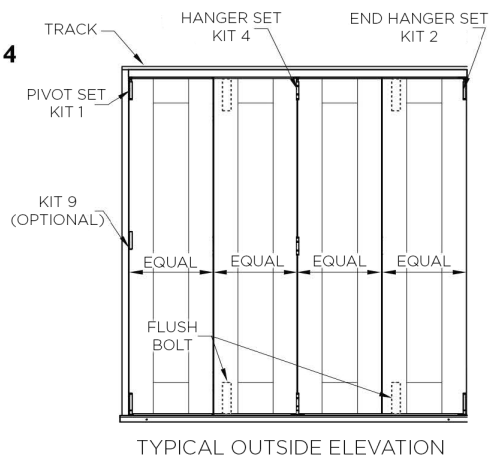


Diagram 4



TYPICAL OUTSIDE ELEVATION

JAMB CAP IN LINE WITH TRACK

HINGE HANDLE

OFFSET 8mm

GAP CAN BE REDUCED 50 5mm IF DOORS ARE MADE 4mm LONGER AND BOTTOM OF PIVOT/ GUIDES ARE LOCALLY CHECKED IN

Ø10 DRILL FOR DRAINAGE AT 1000mm CENTRES, 300mm CENTRES FOR EXTREME CONDITIONS

POLYPROPYLENE CHANNEL 94P

JAMB CAP IN LINE WITH TRACK
JAMB CAP GASKET

ALTERNATIVE ALUMINIUM THRESHOLD SF94T SUPPLIED BY PCH - COMES COMPLETE WITH 94P AND ENDCAPS AND IS PREDRILLED FOR DRAINAGE. REFER TO PAGE 11.

KIT ORIENTATION

Key
 FB = Flushbolt
 LK = Lock (Not supplied by PCH)

DOOR HARDWARE - KIT ORIENTATION, OUTWARD OPENING

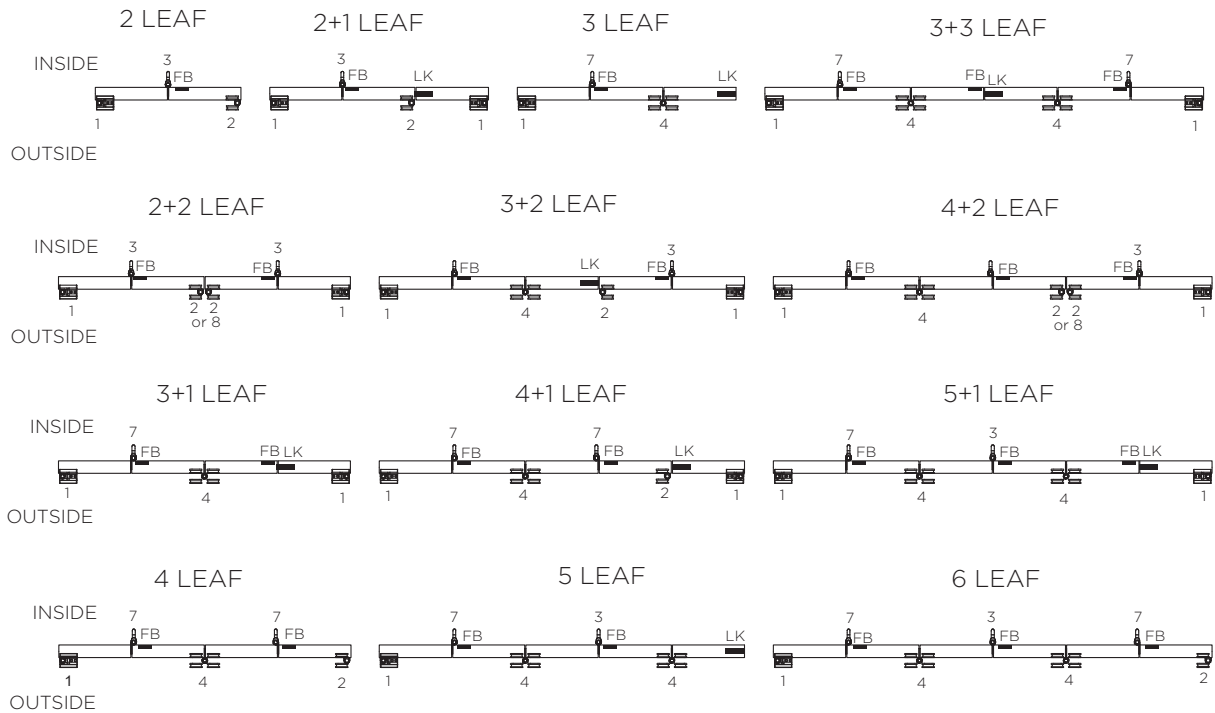


Diagram 5

DOOR HARDWARE - KIT ORIENTATION, INWARD OPENING

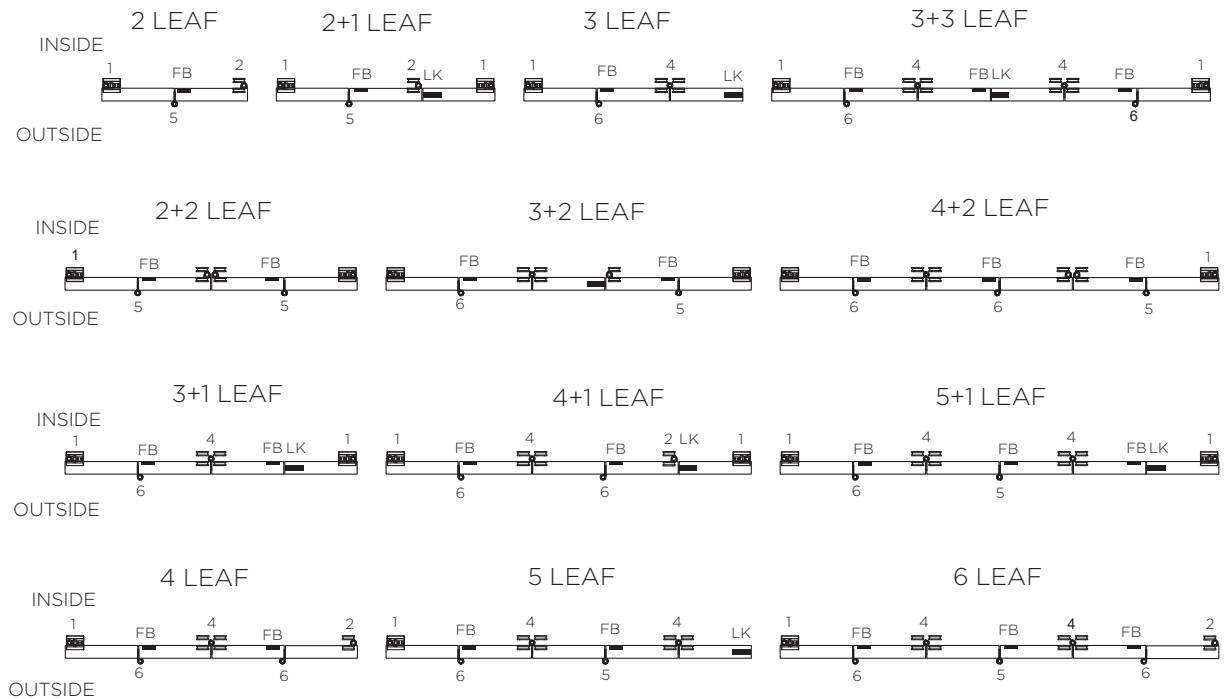
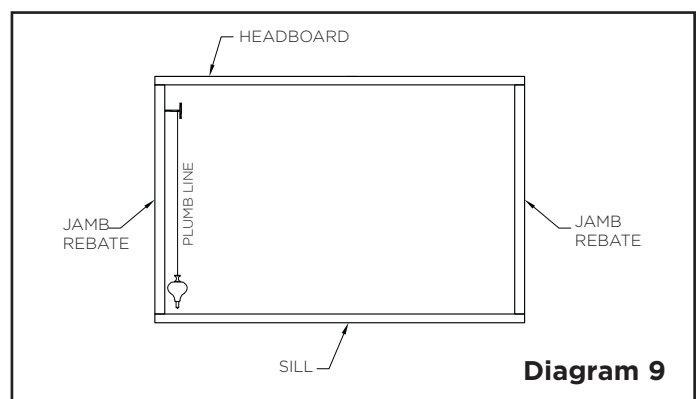
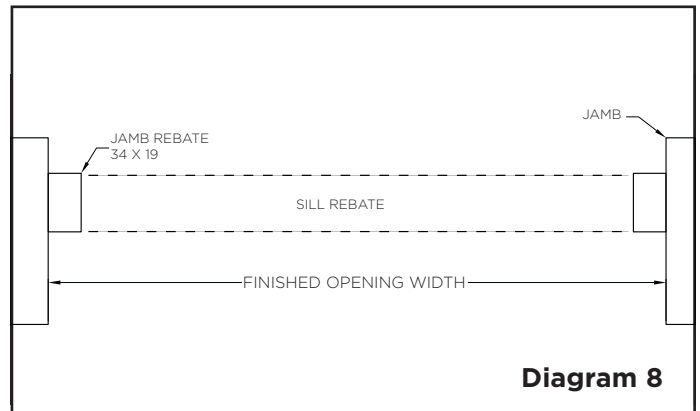
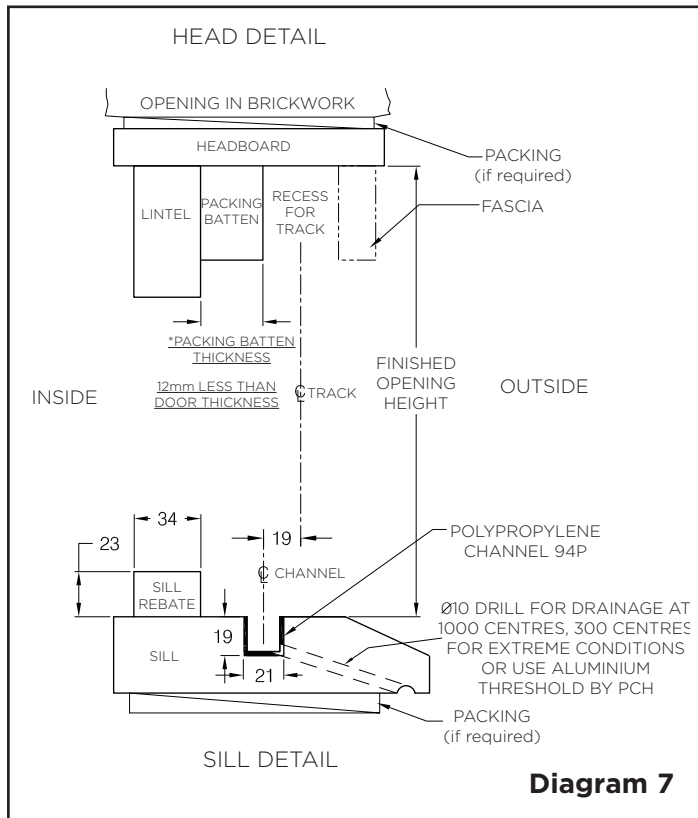


Diagram 6

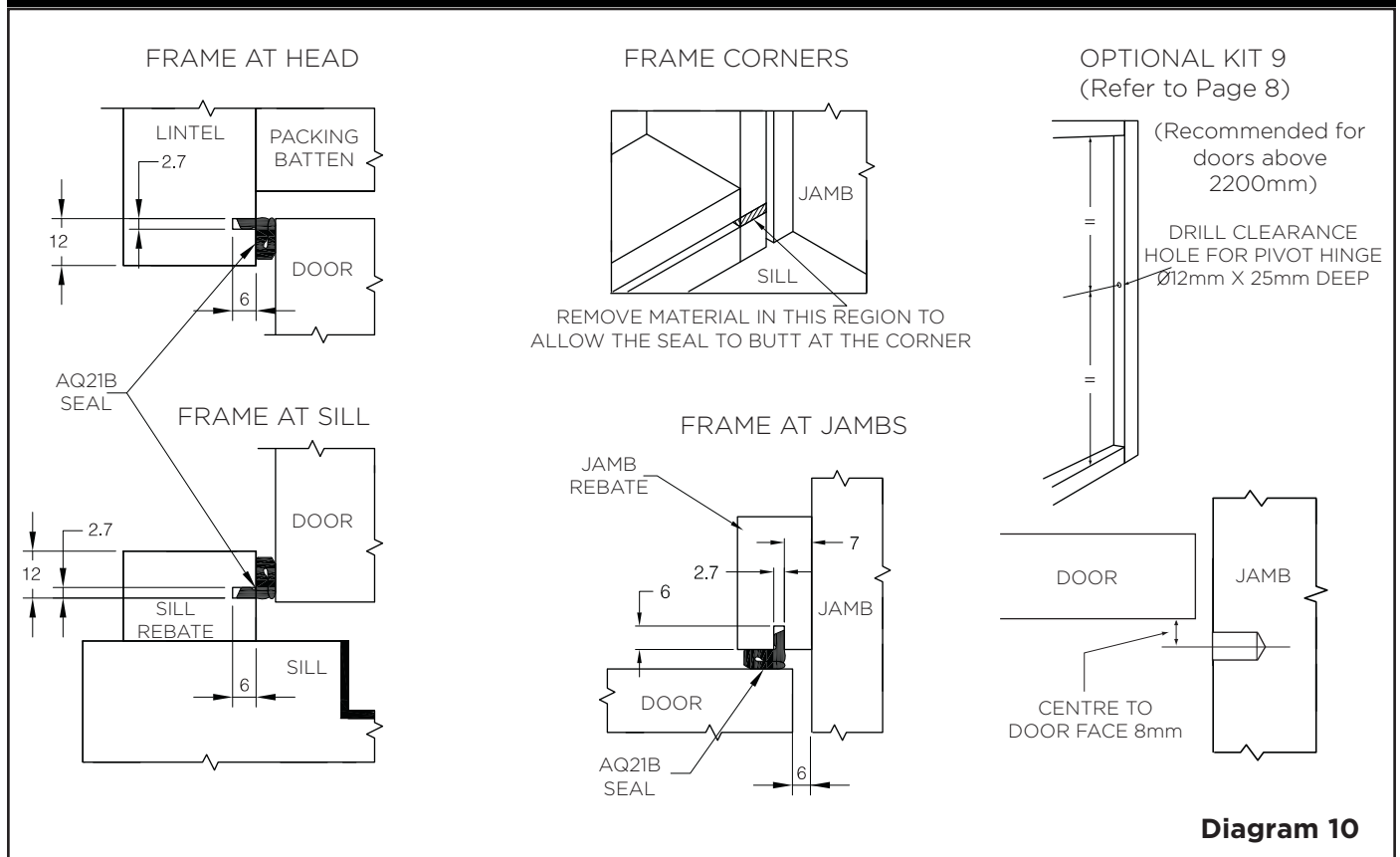
Please Note: If installing Flushbolts, please see pages 12-16

PREPARING THE OPENING

Ensure opening is square and all load bearing areas are suitable for the weight of the system. Ensure there is sufficient strength in the structure above the opening to take the weight of the doors when in the open stacked position. This system has 10mm of horizontal and vertical adjustment. The centre line of the track and centre line of the channel must be offset by 19mm.



PREPARING THE DOOR FRAME



PREPARING THE DOOR LEAVES

Door Leaf Width Calculation

1. Decide how many door leaves you want in the opening.
2. Add together all the 'X' mm clearances between door leaves and 'Y' mm clearances between the door and the jambs, this is the total clearance figure 'C'.
3. Measure the finished opening width 'OW'.
4. The finished door with 'DW' and now be calculated as follows:
 $DW = (OW - C) / N$

Example

Standard & Mortice Round:

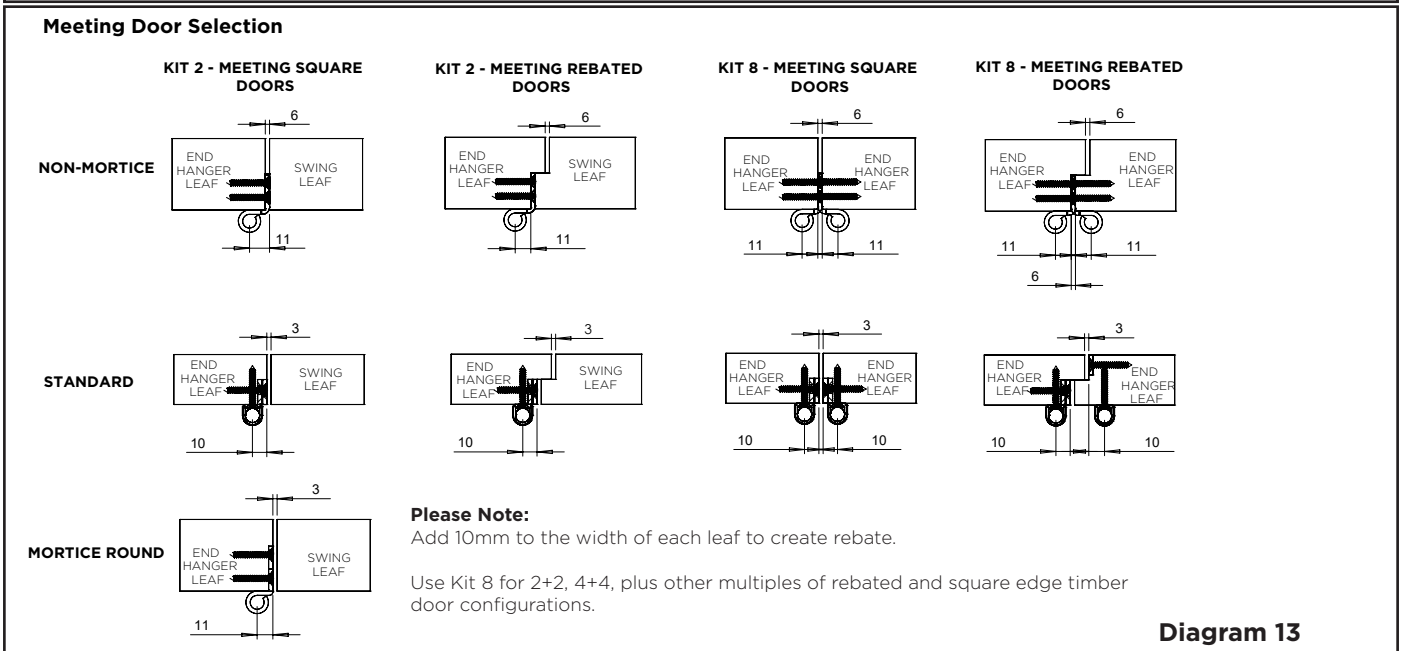
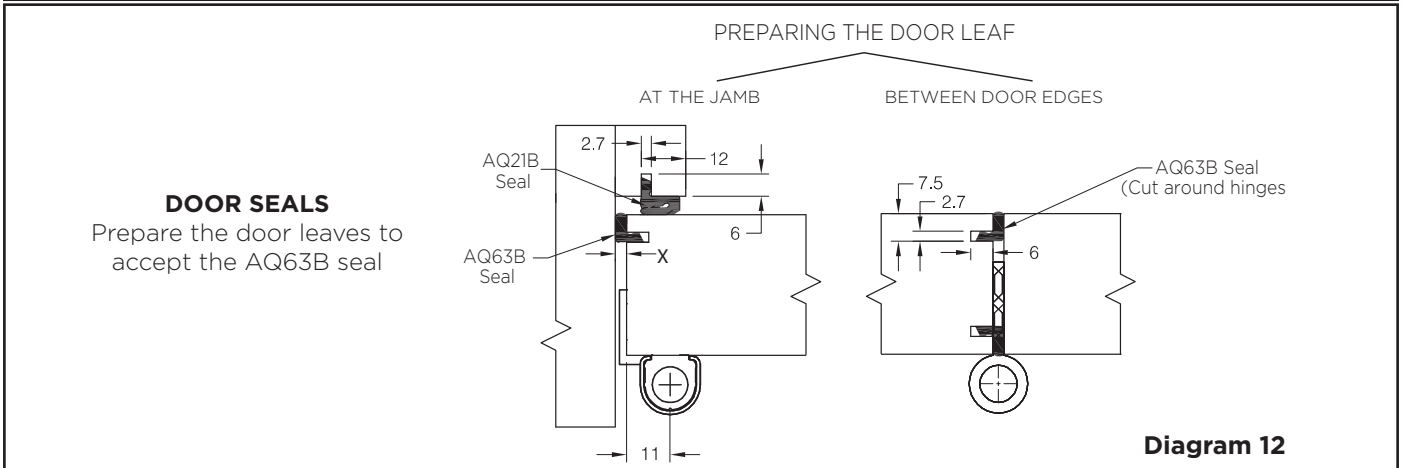
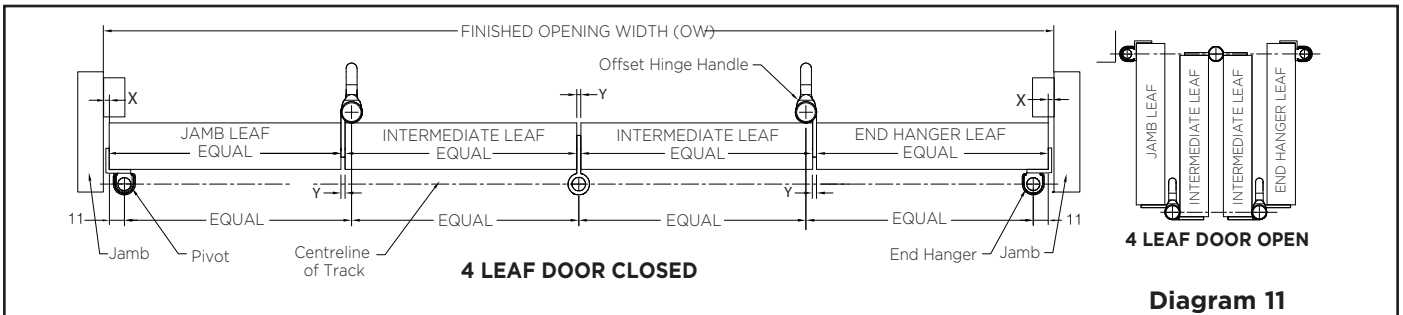
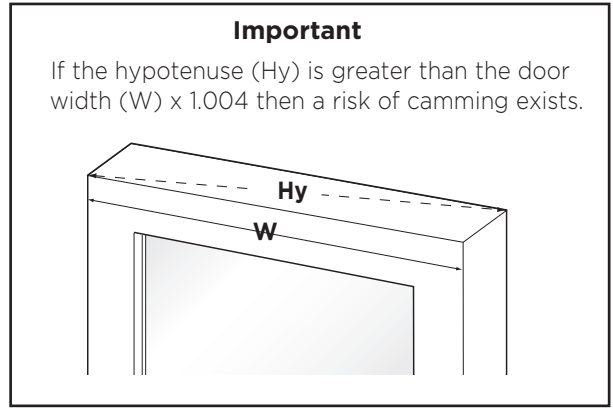
For a 4-door leaf system, with a finished opening width 'OW' of 2500mm, C would be 15mm, divided by 4 (no. of door leaves) = 621.25mm.

Non-Mortice:

For a 4-door leaf system, with a finished opening width 'OW' of 2500mm, C would be 24mm, divided by 4 (no. of door leaves) = 619mm.

Door Leaf Height Calculation

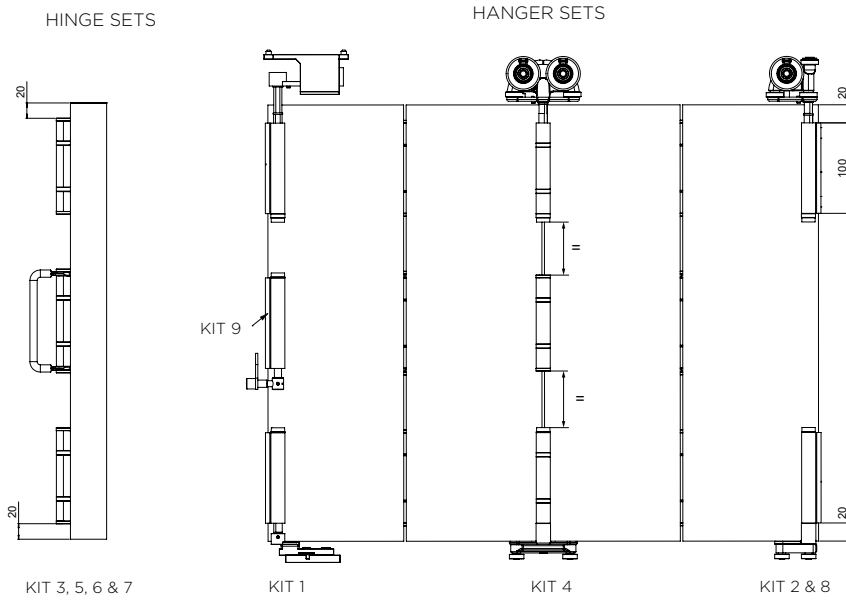
Leaf height = finished opening height (see diagram 7) minus 66mm



Note: X = 3mm (Mortice Round), X = 6mm (Standard and Non-Mortice)

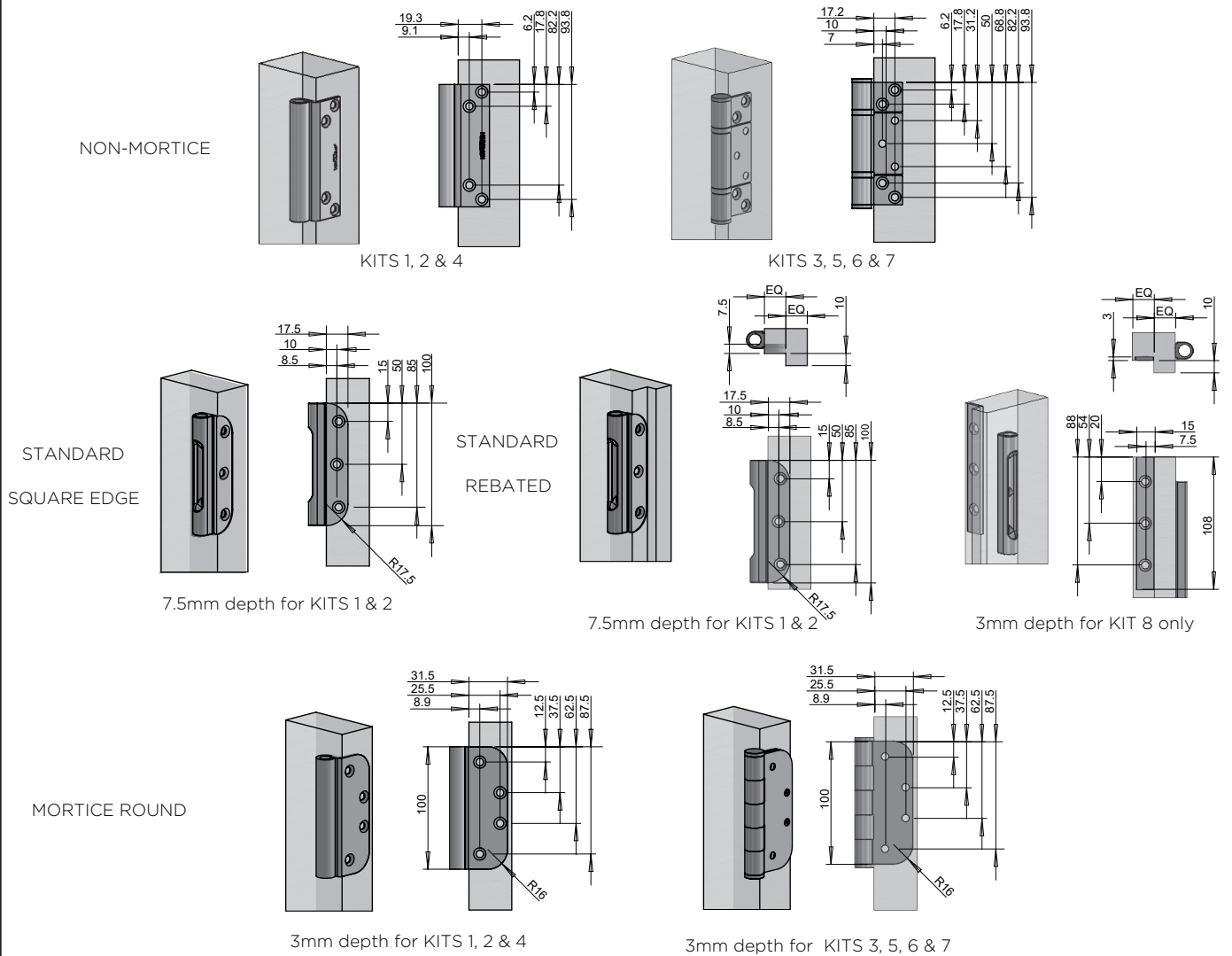
DOOR HARDWARE POSITIONING

Diagram 14



END DOOR LEAF PREPARATION

Diagram 15



Please Note: Pilot hole of 3mm recommended.

DOOR HARDWARE ATTACHMENT

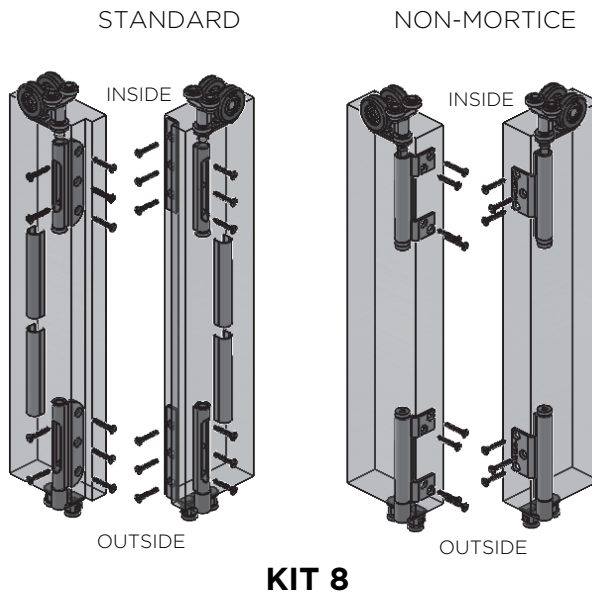
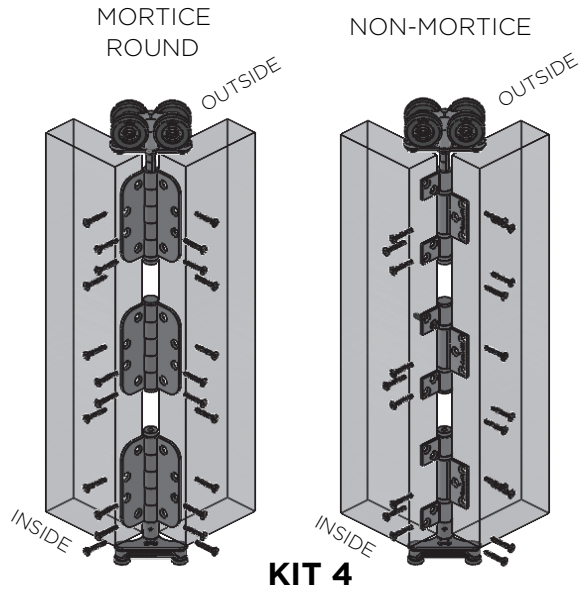
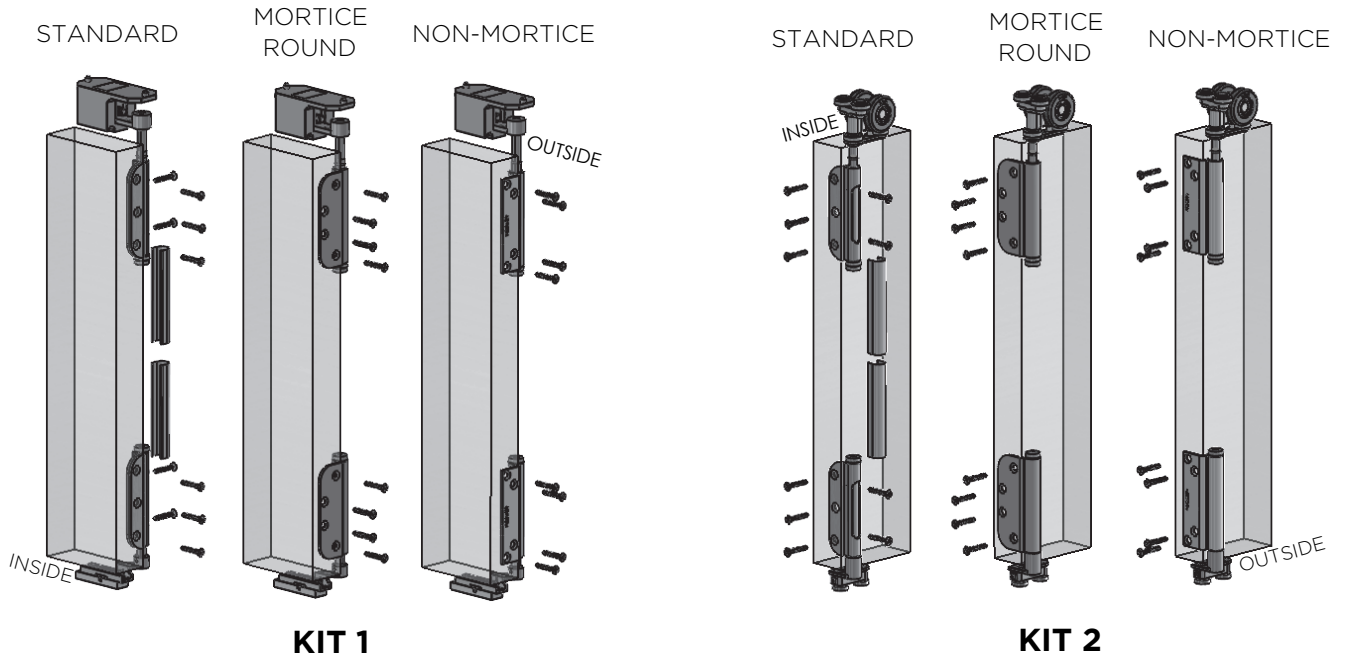


Diagram 16

OPTIONAL INTERMEDIATE PIVOT SET - KIT 9

1. The Securefold Kit 9 intermediate pivot sets shown in Diagram 17, should be fitted to the pivot door approximately mid-way between the Kit 1 top and bottom pivot assemblies as shown in Diagram 18. Kit 9 must be positioned on the same centre line as the Kit 1 top and bottom pivot hinge bodies.

2. Route the door if necessary, depending on your Kit 9 type and drill the 3mm pilot holes as shown on Diagram 17. Fit the hinge body using the screws provided.

3. Prepare the frame for the opening by drilling a $\varnothing 12$ mm hole (as shown in Diagram 19), ensuring that the centre point of the hole is 15mm lower than the bottom of the hinge body as shown on Diagram 20. Rebate the frame support plate, if required.

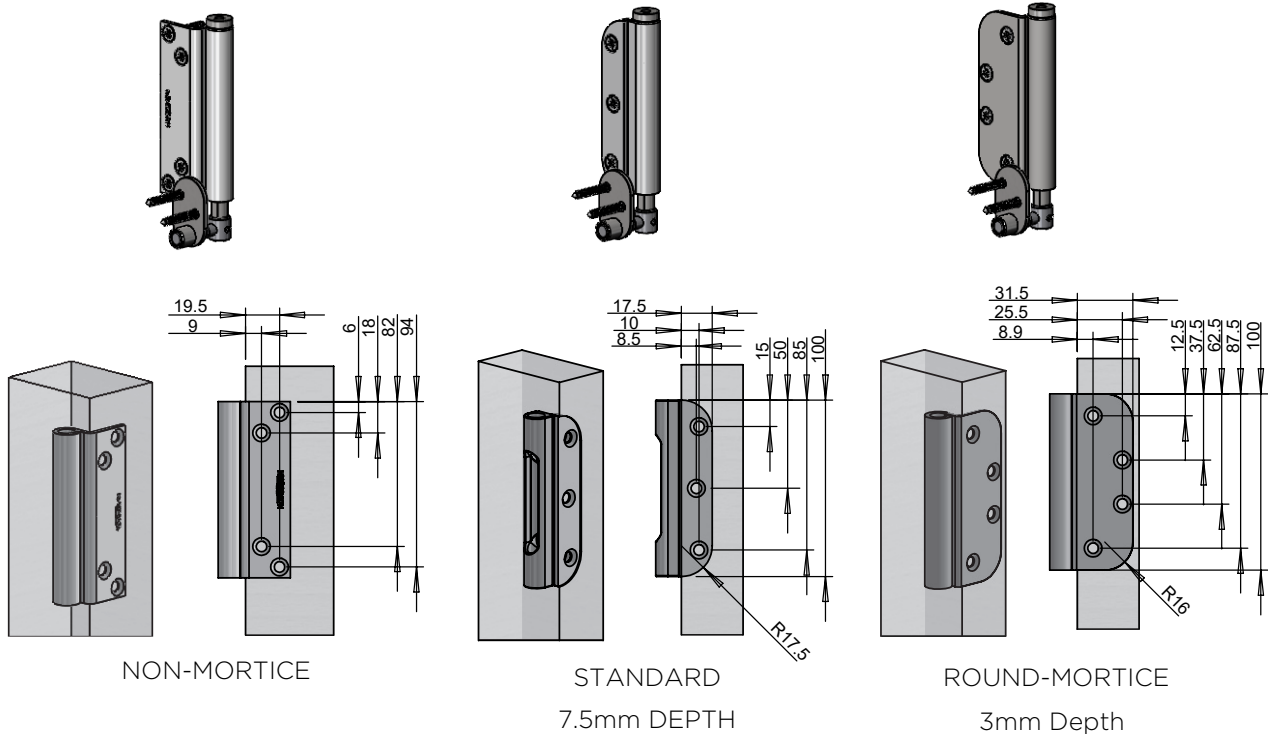
4. Screw the frame support plate on to the opening frame preparation, as shown in Diagram 20.

5. Fit the pivot door into position using the Kit 1 pivot set.

6. Fit the cover sleeve on to the hinge body (standard only) and drop the hinge strap bolt into position, as shown in Diagram 20.

7. Screw the threaded link arm fully into the frame support plate. The centre of the threaded hole in the link arm should be positioned to receive the strap bolt. Screw the strap bolt in to the link arm until there is a 2mm gap between the head of the strap bolt and the hinge body, as shown in Diagram 20.

8. Adjust the Kit 9 pivot set to ensure the clearance between the pivot door and the frame is uniform (Diagram 21).



Please Note: Pilot hole of 3mm recommended

Diagram 17

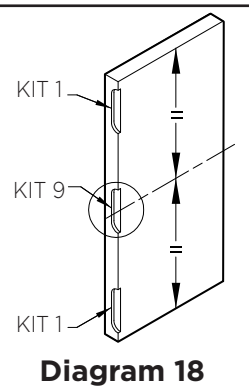


Diagram 18

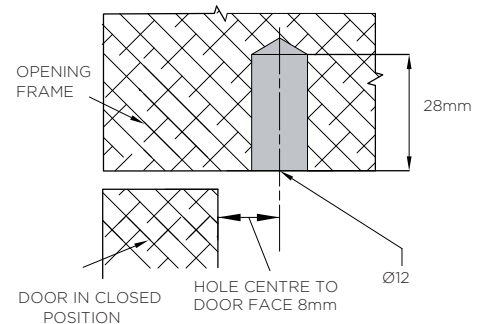
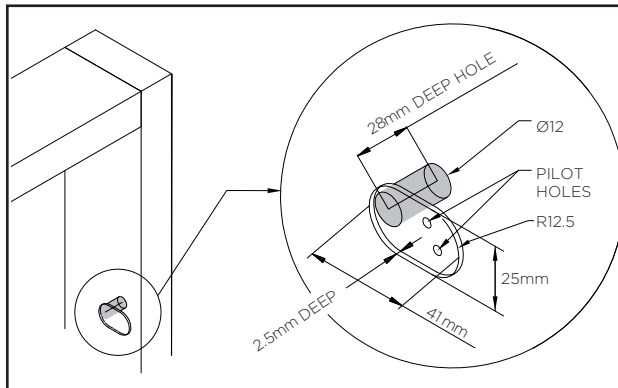


Diagram 19

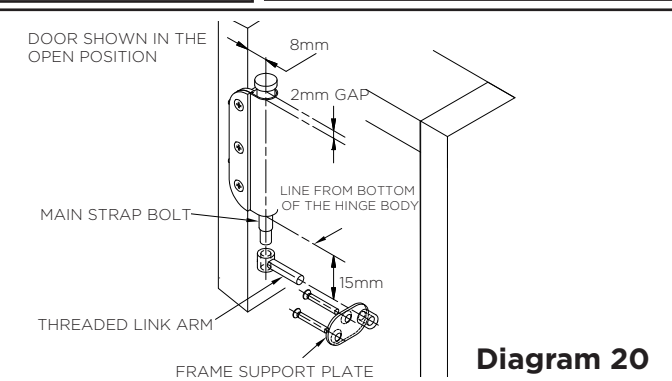


Diagram 20

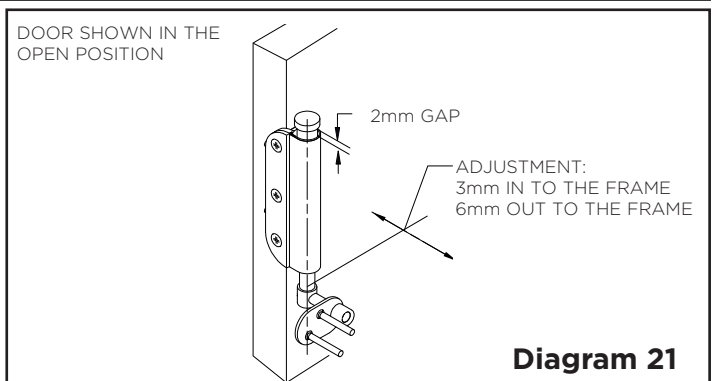
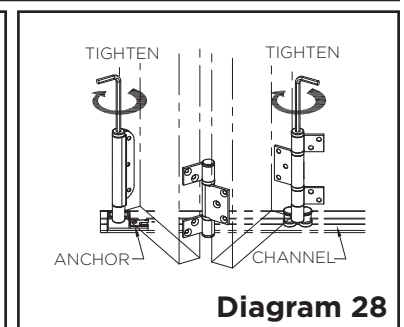
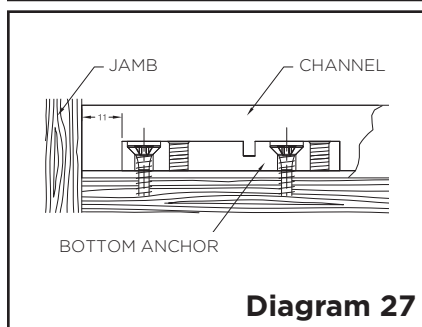
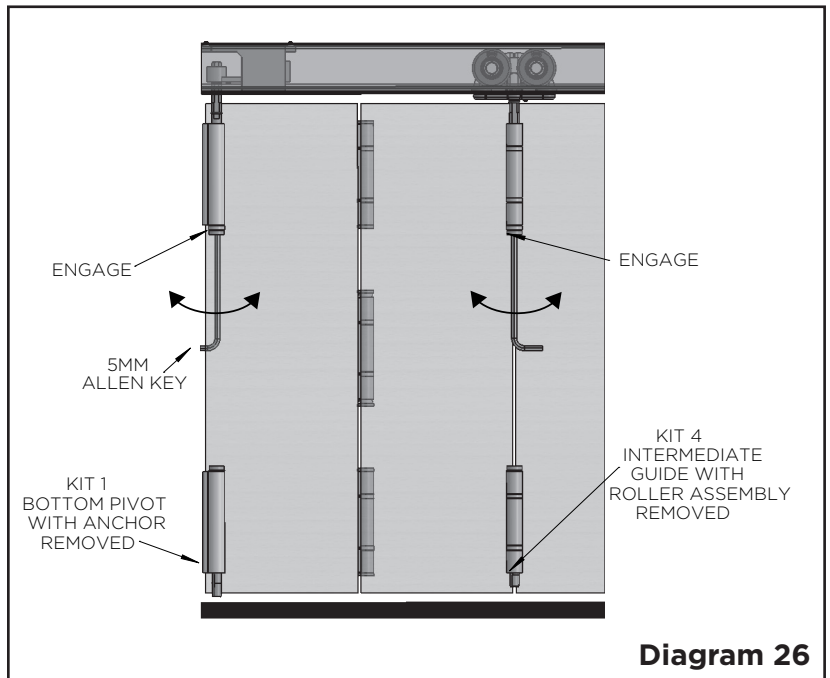
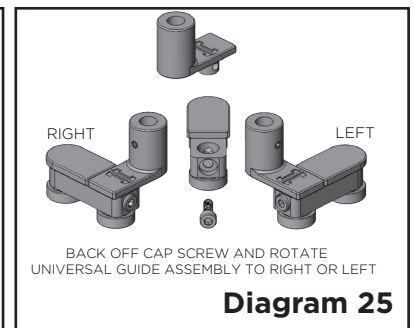
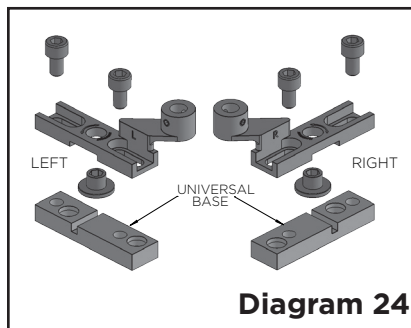
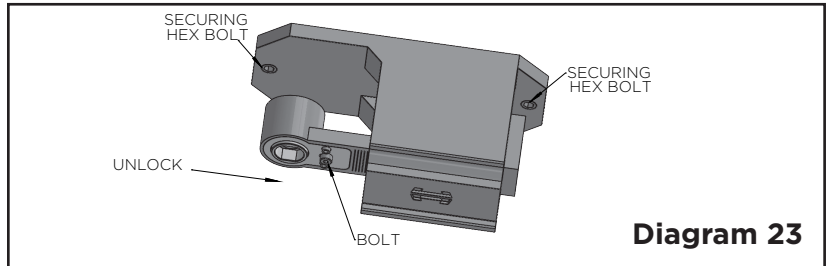
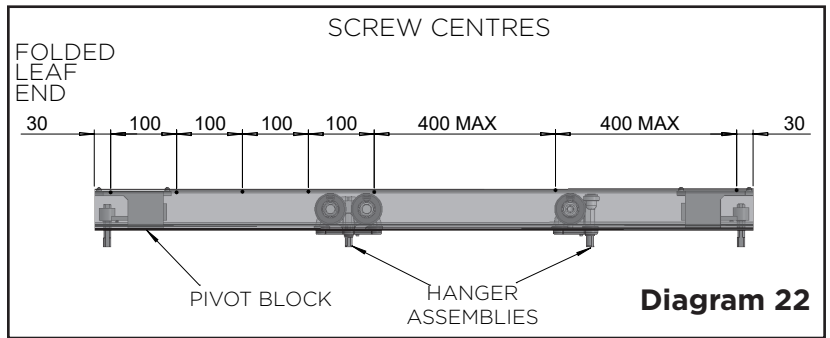


Diagram 21

DOOR HARDWARE INSTALLATION

1. It is recommended that a light smear of general purpose grease is applied to all bolts prior to assembly.
2. Cut the track to the required length and pre-drill for fixings (diagram 22). Please note that the extra fixings are required where the doors stack together.
3. Cut the channel to the required length and fit in the sill. Drill drainage holes (diagram 1). If using threshold kit, please see page 11.
4. Remove all the wheel assemblies and pivot block from the hanger and pivot bolts, move bolt hold to unwind/unlock (diagram 23).
5. Slide the wheel assemblies and track pivot block into the track in the correct order, orientation, and position and fix the track in position.
6. Position Kit 1 (pivot assembly) fully up against jamb and tighten the securing hex bolts (diagram 23) to fix into position using a 3mm allen key (not supplied).
7. Remove the bottom pivot assembly using a 2mm allen key, disassemble using a 5mm allen key (not supplied), make note of the handing you require for reassembly. (diagram 24).
8. If using Kit 2 or Kit 8, remove the universal guide assembly using a 2mm allen key, disassemble using a 3mm allen key and make note of the handing you require for reassembly. (diagram 25).
9. For installation, assemble leaves in pairs via the hinges. To improve the ease of installation pre-drill pilot holes for all hinge parts. Fit kits 1, 7, 4 and 9 (optional) to first pair of leaves. Please ensure all screws are fixed per end hinge.
10. Screw the bottom anchor of the bottom pivot assembly to the base of the channel 11mm from the jamb. Please note, the screw nearest the end of the bottom anchor is closest to the jamb (diagram 27). Reassemble the bottom pivot assembly leaving the clamping screws loose (diagram 31). Line up flats, turn to tighten (audible clicks).
11. Suspend pairs of leaves by engaging top pivot and hanger bolts using 5mm allen key (not supplied) (see top of diagram 26).
12. Attach the bottom pivot and universal guide assembly to their respective hinges, adjust the bottom pivot side plates position so that it engages with the hinge bolt. Tighten pivot and guide strap bolts (see diagram 28).
13. Lift the next pair of leaves into position and support their weight by screwing the hanger strap bolt into the hanger wheel assembly and fixing the second and third leaves together.
14. Continue this procedure until all leaves are fitted.



ADJUSTMENT

HEIGHT ADJUSTMENT (3MM)

1. Close leaves and adjust the door height to achieve an equal gap between the top of the leaves and the track (a 9mm gap is recommended).
2. To adjust turn strapbolt (audible clicks). To adjust down side and hold bolt head at the same time loosening strapbolt (diagram 29)

LATERAL ADJUSTMENT

1. With the unit still in the closed position, adjust the leaves towards/away from the jamb to obtain the desired gap between the jamb and the pivot door:

3mm for Standard and Round Mortice
6mm for Non-Mortice

Use a 6mm Ball End Hex Key or Screwdriver (diagram 30) not supplied.

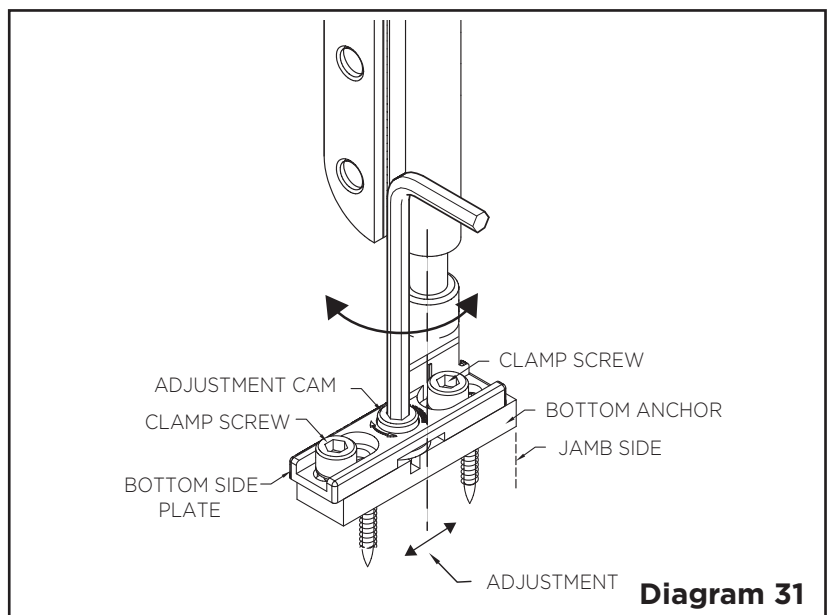
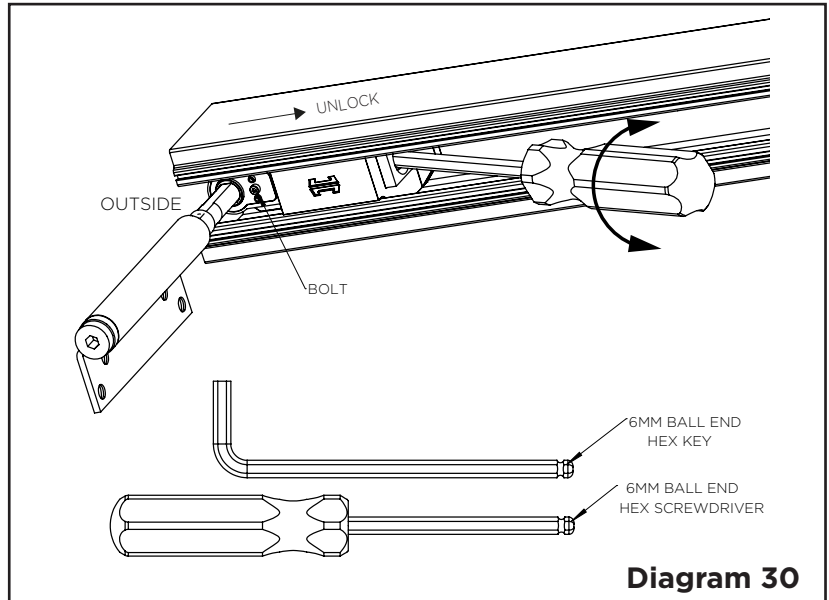
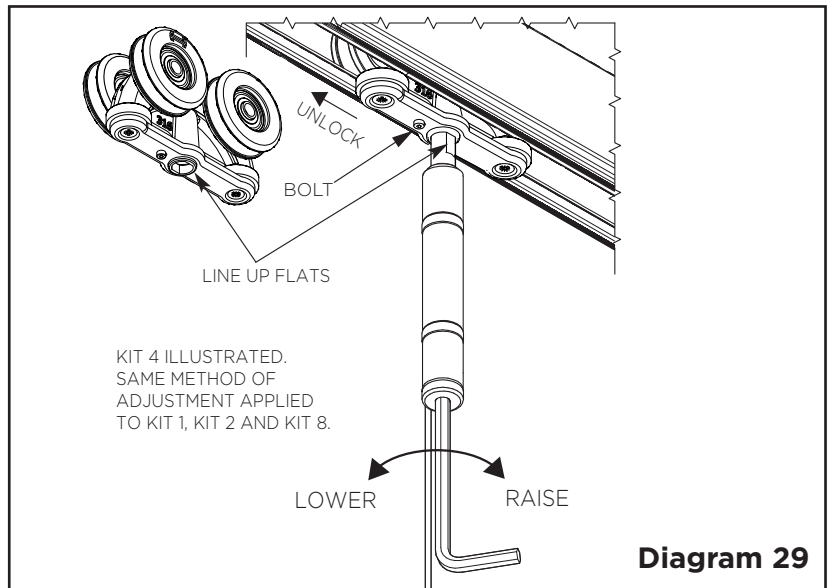
2. Fold the leaves and adjust the bottom side plate using the allen key so that the gap between the door and the jamb is the same over the full length of the door and tighten the two clamping screws to lock the side plate to the bottom anchor (diagram 31)

CARE AND MAINTENANCE

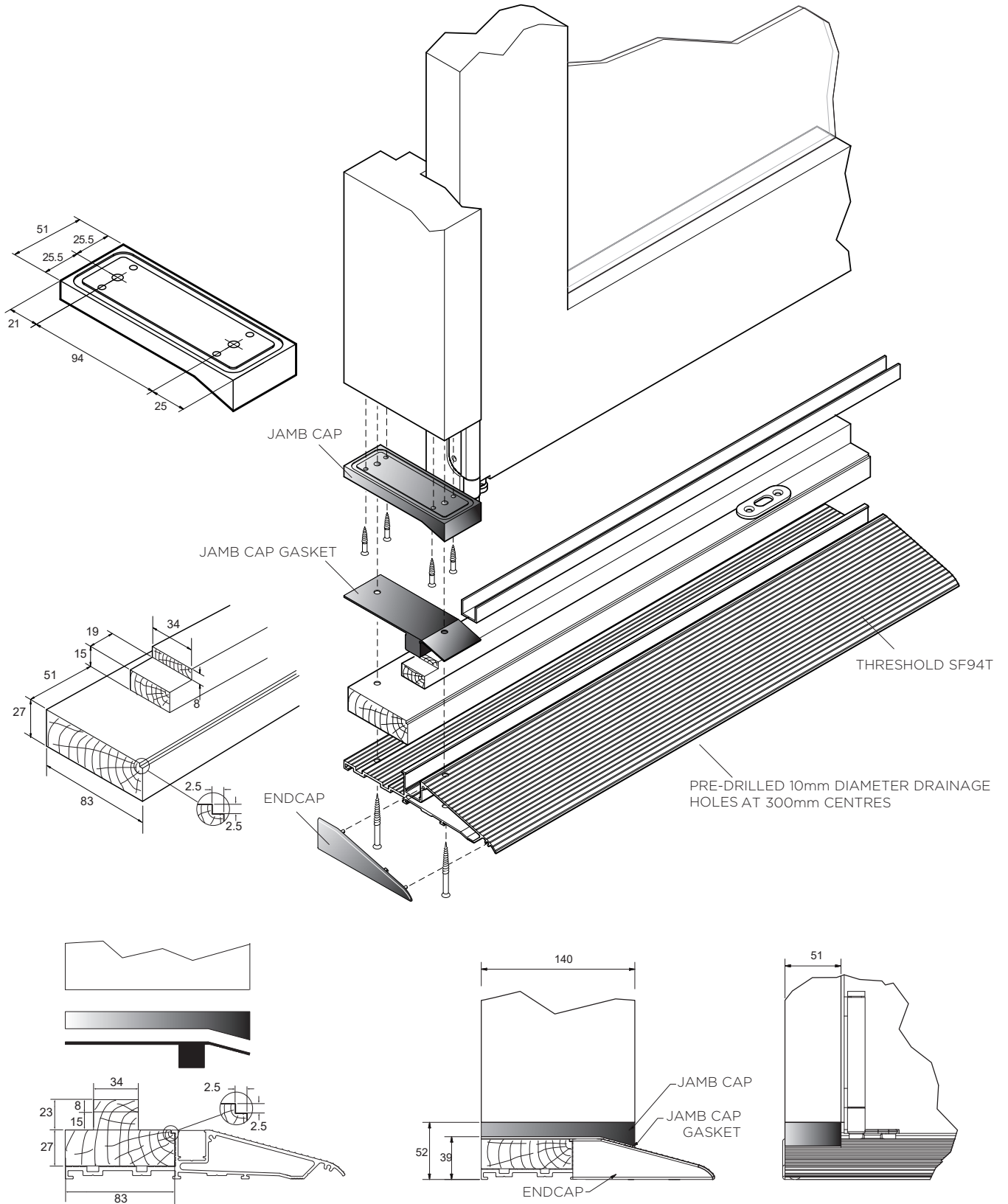
To provide years of trouble free operation, it is recommended that the track is kept free from dirt and debris. Periodically replace the general purpose grease on all bolts. To prolong the appearance of the exposed hinge parts, it is recommended they are periodically washed with soap and water.

Maintenance is required on all components including stainless steel to validate manufacturers warranty.

For further maintenance details please refer to our website, www.pchenderson.com.



OPTIONAL: ALUMINIUM THRESHOLD JAMB KIT



Please Note: All dimensions in mm

OPTIONAL: LOW PROFILE FLUSHBOLT INSTALLATION

OUTWARD OPENING KIT AND DOOR SPECIFICATION

Door Height	Recommended Bolt Length for Top of Door (Outward Opening) Length X	Recommended Bolt Length for Bottom of Door (Outward Opening) Length X
Upto 2200mm	190mm	190mm
Upto 2450mm	450mm	190mm
Upto 2750mm	600mm	190mm
Upto 3300mm	600mm/1000mm	190mm

INWARD OPENING KIT AND DOOR SPECIFICATION

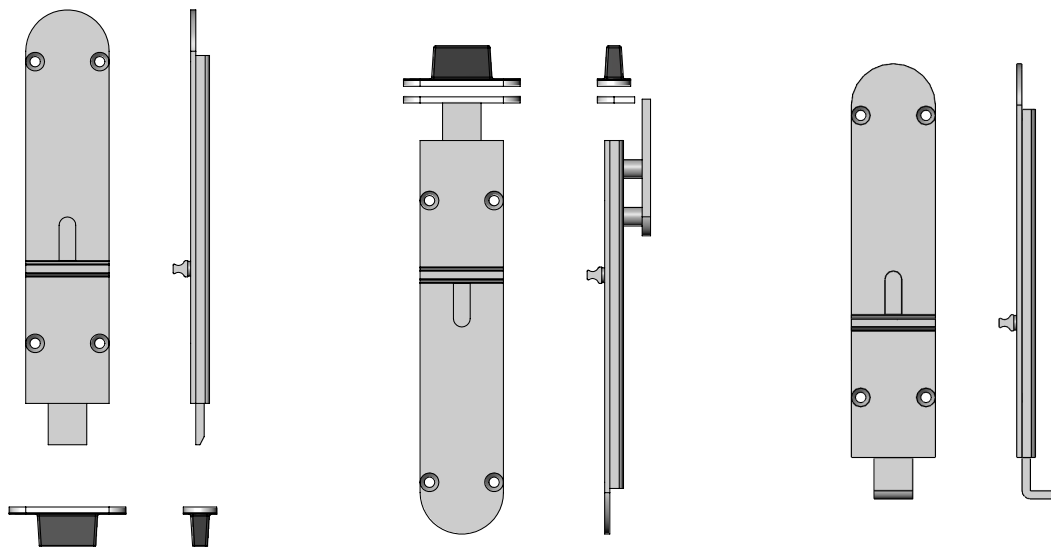
Door Height	Recommended Bolt Length for Top of Door (Inward Opening) Length X	Recommended Bolt Length for Bottom of Door (Outward Opening) Length X
Upto 2200mm	190mm	190mm
Upto 2450mm	450mm	190mm
Upto 2750mm	600mm	190mm
Upto 3300mm	600mm	190mm

For top hung exterior folding doors - For use in conjunction with standard fitting instructions - Follow routing instructions for the bolt keep and flush bolt length to be fitted, fit both with screws supplied - Suitable pilot holes for screws are recommended

KIT CONTENTS

Description	Standard		Inward Opening Top		Inward Opening Bottom	
	Non-Locking	Locking	Non-Locking	Locking	Non-Locking	Locking
Standard Keeper	1	1	1	1	N/A	N/A
Standard Dustbox	1	1	1	1	N/A	N/A
Half Keeper	N/A	N/A	1	1	N/A	N/A
8Gx32mm Pozi Body Fixing Screws	QTY 4 to 12	QTY 4 to 12	QTY 4 to 10	QTY 4 to 10	QTY 4	QTY 4
8Gx25mm Pozi Keeper Fixing Screws	2	2	2	2	N/A	N/A
Keys	N/A	2	N/A	2	N/A	2

Please Note: Please see page 3 for Flushbolt location for all configurations



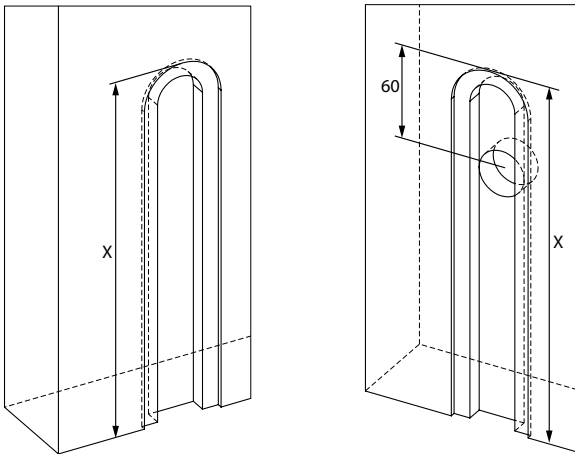
TOP & BOTTOM FLUSH BOLT
(OUTWARD OPENING)

TOP FLUSH BOLT
(INWARD OPENING)

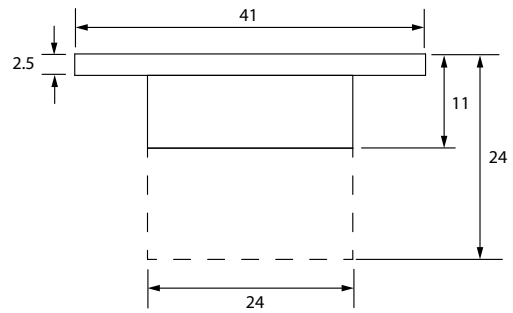
BOTTOM FLUSH BOLT
(INWARD OPENING)

OUTWARD OPENING FITTING INSTRUCTIONS

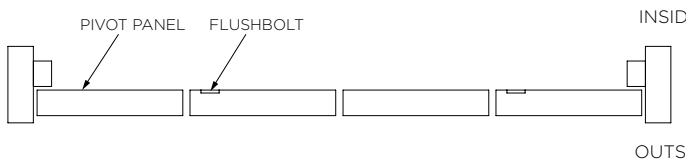
1 INSTALL FLUSH BOLT TO PANEL.



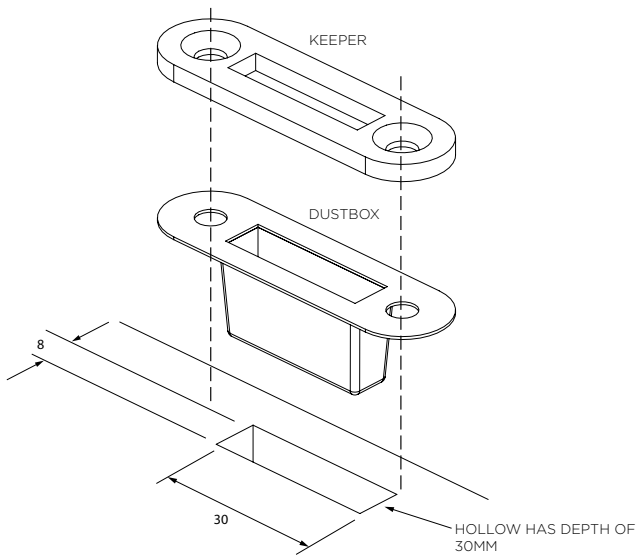
2 COUNTERBORE TO 24MM FOR LOCKABLE FLUSH BOLTS.



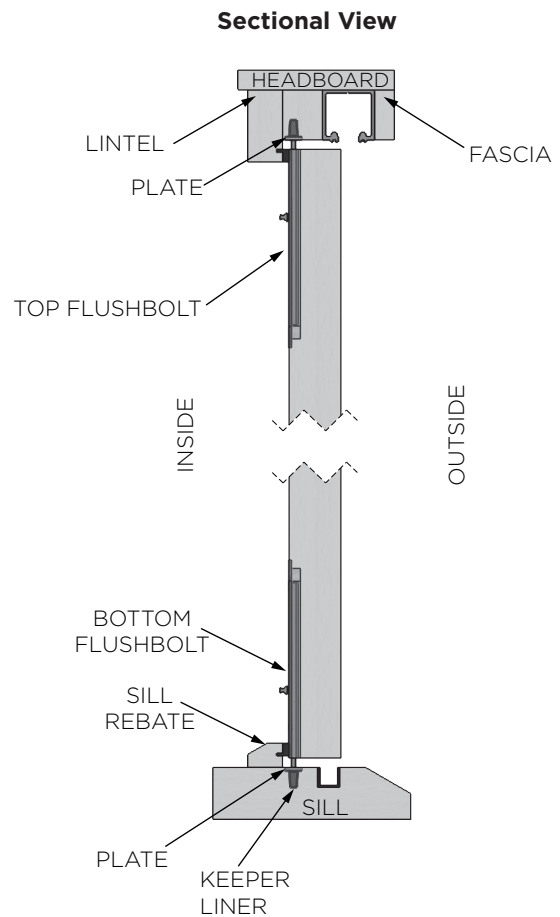
3 INSTALL BOLT KEEPER TO SILL.



4 MARK WHERE FLUSH BOLT THROW STRIKES AND NOTCH OUT HOLLOW FOR DUST BOX.



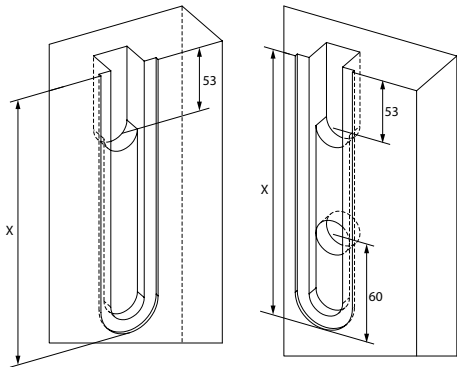
5 FLUSH BOLT REBATE DETAIL.



INWARD OPENING FITTING INSTRUCTIONS

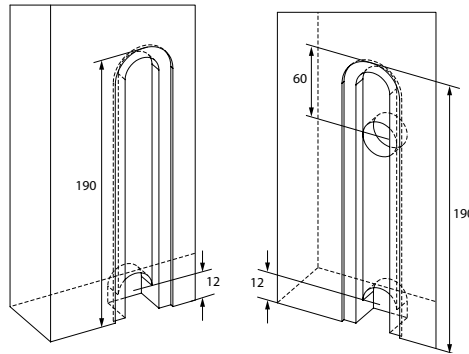
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INSTALL TOP FLUSH BOLT TO PANEL.



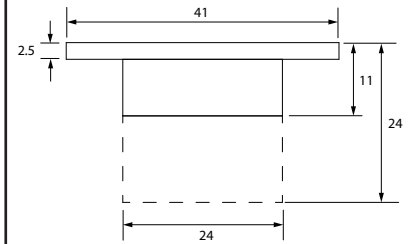
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INSTALL BOTTOM FLUSH BOLT TO PANEL.



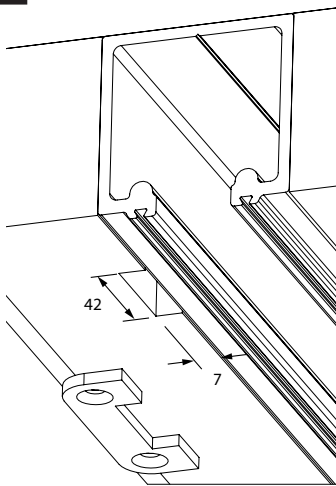
8

COUNTERBORE TO 24MM FOR LOCKABLE FLUSH BOLTS.



9

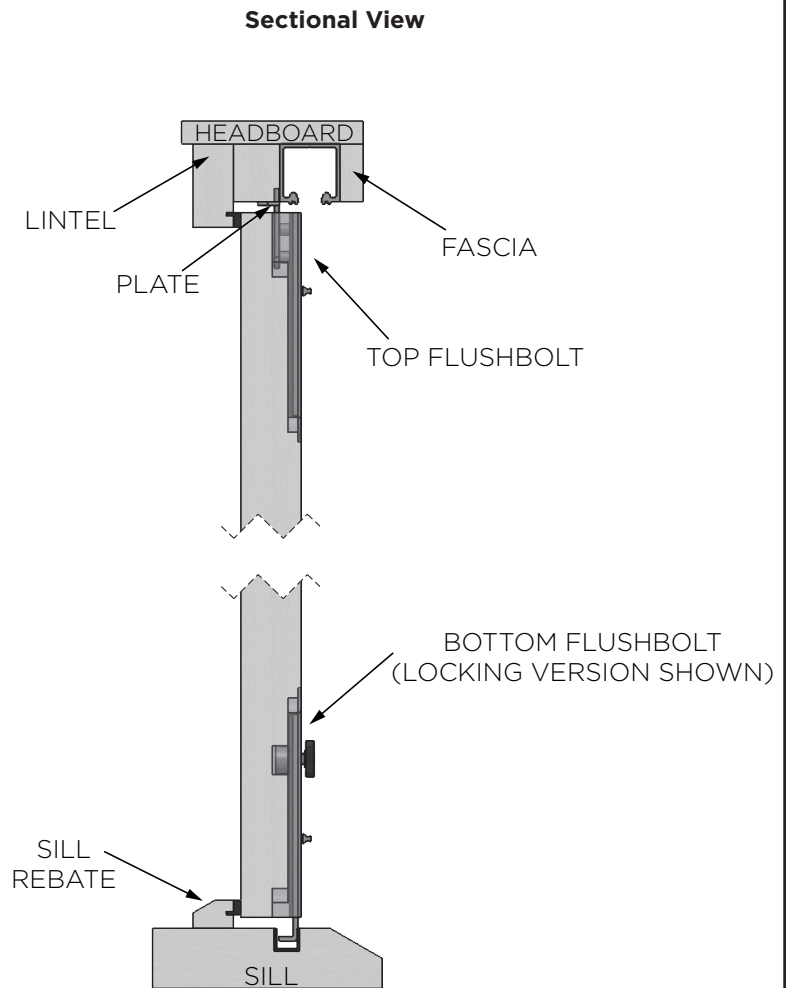
INSTALL KEEPER TO HEADBOARD



Mark where flushbolt throw strikes and notch out hollow. Align keeper edge with track.

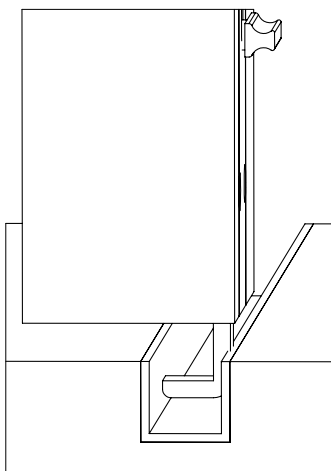
11

FLUSH BOLT REBATE DETAIL.



10

RETAINING BOTTOM FLUSH BOLT'S THROW.

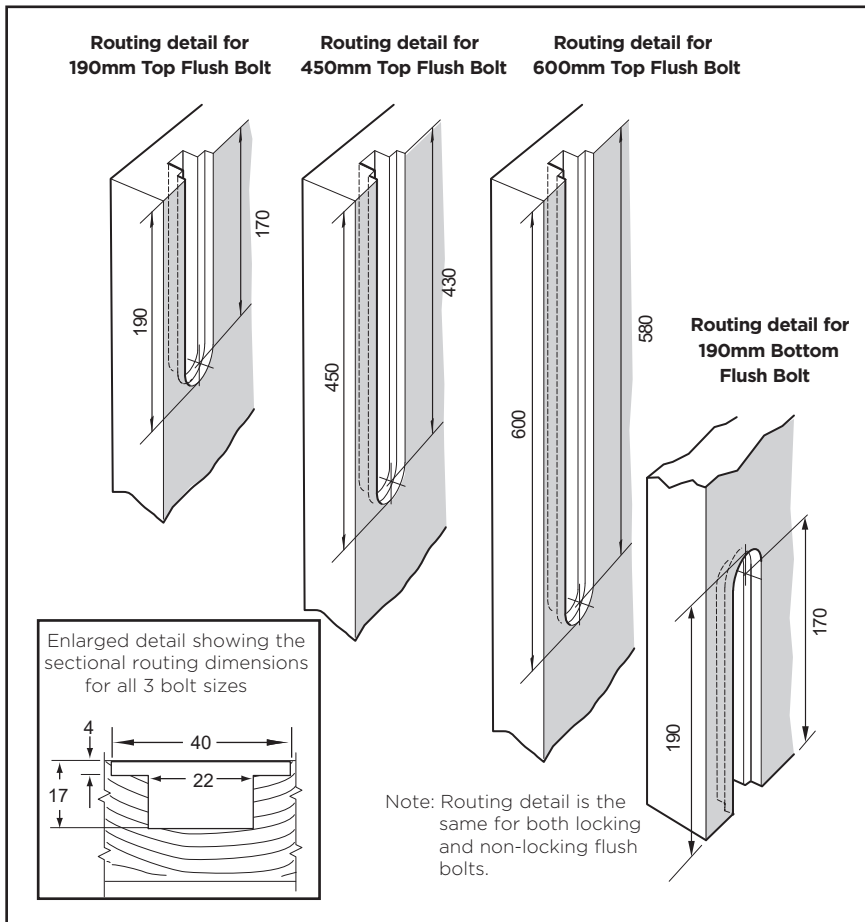


Bottom Flush bolt throw locks into channel

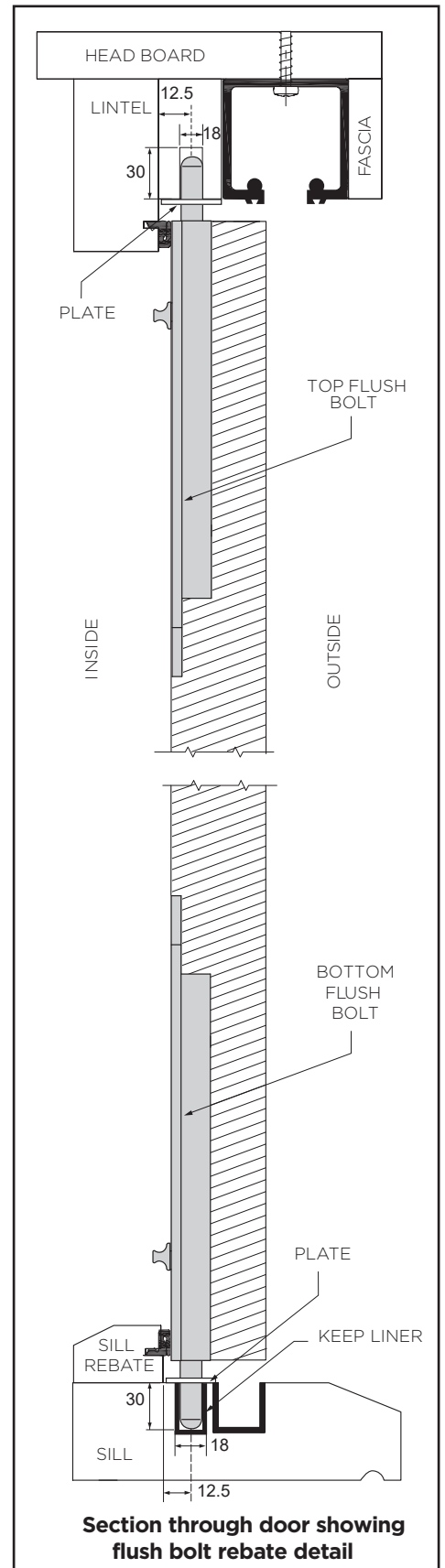
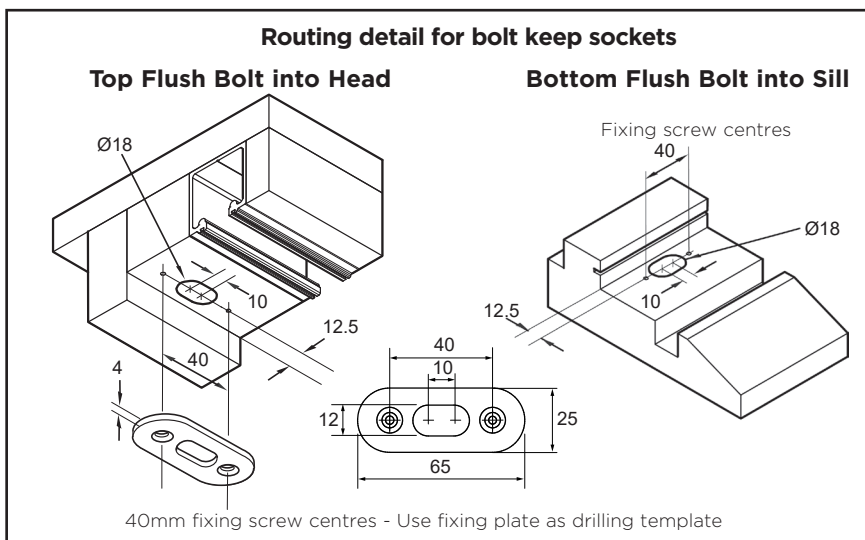
OPTIONAL: STANDARD FLUSHBOLT INSTALLATION

OUTWARD OPENING FITTING INSTRUCTIONS

For Top hung exterior folding doors. For use in conjunction with standard outward opening fitting instructions. Follow routing instructions for the bolt keep and flush bolt length to be fitted, fit both with the screws supplied. Suitable pilot holes for screws are recommended.



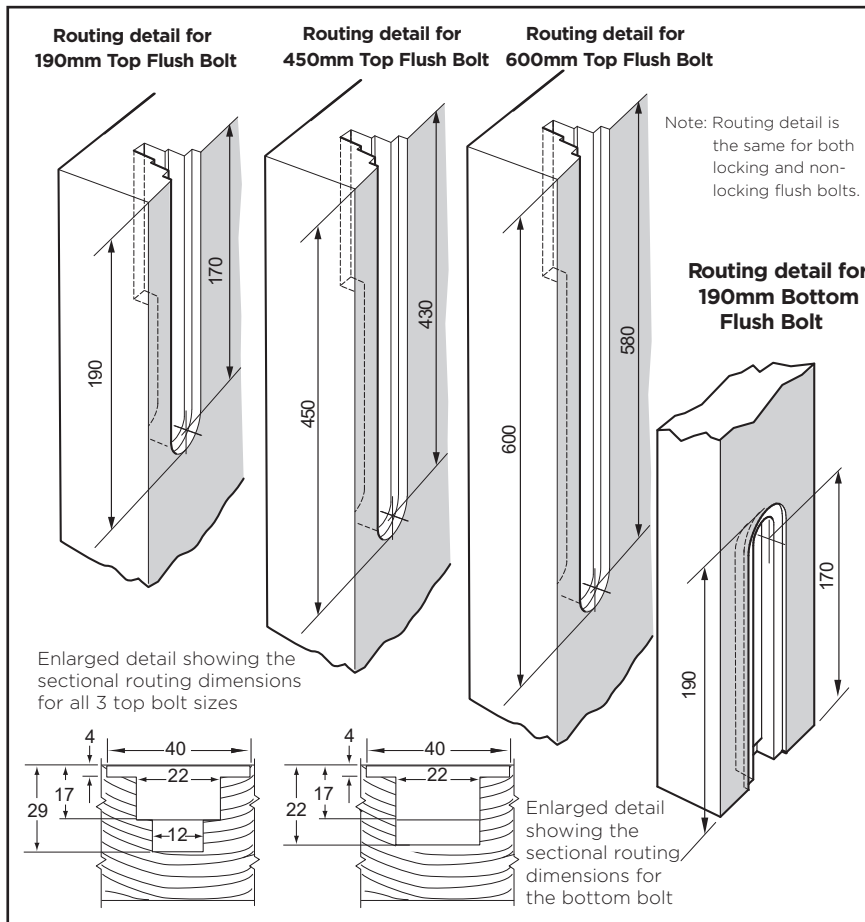
Door height	Recommended Bolt length for top of door	Recommended bolt Length for bottom of door
Upto 2200mm	190mm	190mm
Upto 2450mm	450mm	190mm
Over 2450mm	600mm	190mm



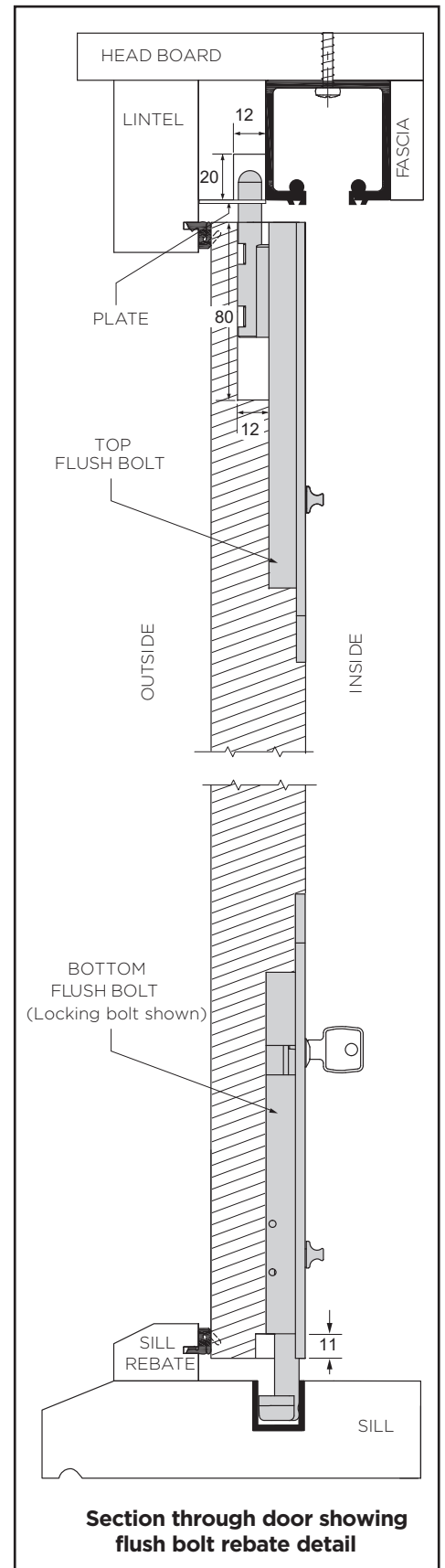
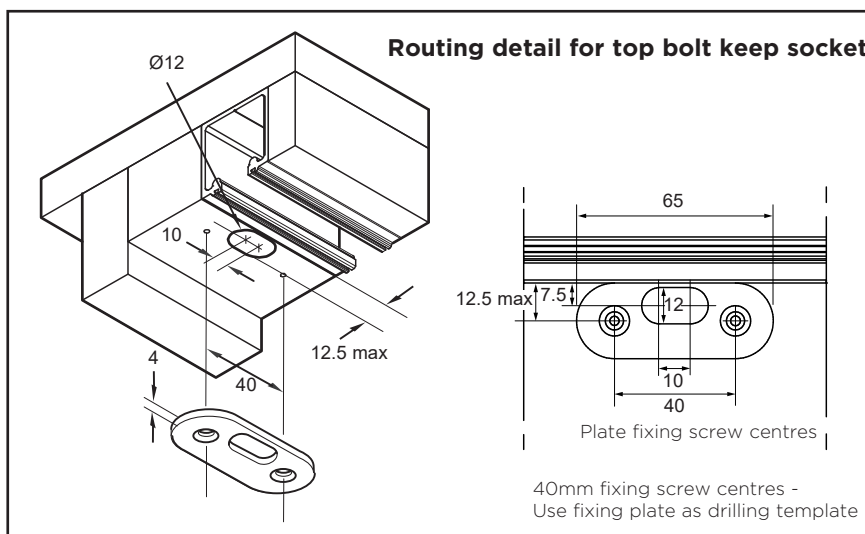
(All dimensions in mm)

INWARD OPENING FITTING INSTRUCTIONS

For Top hung exterior folding doors. For use in conjunction with standard inward opening fitting instructions. Follow routing instructions for the bolt keep and flush bolt length to be fitted, fit both with the screws supplied. Suitable pilot holes for screws are recommended.



Door height	Recommended Bolt length for top of door	Recommended bolt Length for bottom of door
Upto 2200mm	190mm	190mm
Upto 2450mm	450mm	190mm
Over 2450mm	600mm	190mm



(All dimensions in mm)

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