



**For further assistance, call 01702 899440**

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Fletchers Square, Temple Farm Industrial Estate, Southend-on-Sea, Essex SS2 5RN

## MAINTENANCE

### General Maintenance

- The door surfaces and inner chambers should be cleaned using warm soapy water or a mild diluted detergent. The surfaces should be cleaned using a soft cloth, sponge or a soft natural bristle brush. All areas to be thoroughly rinsed and dried after cleaning.

Polyester Powder Coating Polyester powder coat paint is an organic finish that requires regular cleaning and maintenance to ensure it keeps its decorative and protective qualities. The frequency of cleaning depends on such factors as:

1. The building's surrounding environment (for example, marine alkaline, acid. Industrial etc.)
2. The varying levels of atmospheric pollution,
3. The prevailing wind direction,
4. Exposure to airborne debris such as sand or salt, which may cause erosive wear.

Cleaning frequency also depends on the desired standard of appearance and also the need to remove deposits, which could cause damage after prolonged contact with the finish.

In an industrial environment, the normal interval between cleaning should not be more than every three months. Where there is a high degree of industrial pollution or a hazardous atmosphere, the periods between cleaning should be reduced. If the atmosphere is nonhazardous (for example in rural or normal urban locations), the period between cleaning can be extended to a maximum of 18 months (or more frequently if heavy soiling occurs). Where a site is subjected to any unusual environment factors, or is close to salt water, your installer should be consulted for specialist

### Locks & Hardware

All locking mechanisms should be kept free of dirt and grime and lubricated with light machine oil such as 3 in 1 or WD40.

Locking parts exposed when the door is open including strike/face plates, locking cams and hook bolts should be wiped clean of residue lubricant and grime. These mechanisms should then be lubricated using a light machine oil. Locking keeps should be lubricated with petroleum jelly from time to time. Always ensure excess oil is wiped away.

One year after installation and thereafter annually, the moving parts of locking mechanisms should be lubricated with light machine oil as 3 in 1, or WD40.

Handles may be cleaned with warm soapy water or a mild diluted detergent using a soft cloth or sponge. It is important to thoroughly rinse and dry the hardware after cleaning.

Pivot points of handles should be lubricated periodically with light machine oil such as 3 in 1 or WD40.

The tightness of all fixing screws or rivets should be checked periodically. One year after installation and thereafter annually. The tightness of all fixing screws or rivets should be checked periodically.

Over tightening of handle fixing screws can put too much strain on the locking mechanism's gearbox and impair the function of the lock. Windows and doors which are not in frequent use should be opened and maintained

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## CONDENSATION

### Condensation

Water vapour is continually present in the atmosphere and in the home this natural water content is increased by day-to-day activities which create steam such as cooking, bathing, washing, boiling water etc.

This water vapour is undetectable when carried in warm air, but it condenses into water droplets when it comes into contact with cold surfaces such as glass. Normally, water vapour is controlled through natural ventilation via airbricks and chimneys etc. but conservation measures have led to more efficient sealing of buildings.

This may result in trapped water vapour and increasing problems with condensation. Condensation is best controlled by ventilation and this is achieved by opening windows, fitting extraction units or by fitting wall vents to provide airflow. Some heat should always be maintained in the building during cold weather.

The temperature may be increased in areas where condensation is a particular problem. If possible, internal doors to kitchens and bathrooms should be kept closed and sealed against draughts to prevent excessively moist air being transferred to other areas. Bedroom windows should have night ventilation facilities to provide air circulation. Curtains should be a minimum of 150mm away from the door to ensure airflow, with suitable gaps

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# BIFOLD DOOR INSTALLATION GUIDE



## OPERATION

TRAFFIC DOOR OPERATION	TRAFFIC HANDLE OPERATION	TRAFFIC DOOR OPENING
		
Turn key clockwise to unlock	Grip handle and push down to operate high traffic door handle	Open panel fully to allow the magnets to fix to the adjacent panel
HOLDING TRAFFIC DOOR OPEN	UNLOCKING T-HANDLE	DISENGAGE SHOOTBOLTS
		
Magnets protect and fix traffic door panels to adjacent panels	Push T-Handle to release	Rotate handle clockwise 180° to disengage shootbolts fully
T HANDLE OPERATION	UN-LOCKING T HANDLE	OPENING FOLDING PANELS
		
Push the T-Handle back into the frame before operating doors	Ensure the 'Un-locked' symbol is at the top before opening doors	Slide panels together

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# BIFOLD DOOR INSTALLATION GUIDE



## OPERATION

OPEN POSITION	CLOSING DOOR	LOCKING T-HANDLE
		
Stack the panels together for max clear opening	Reverse previous steps to close door	Lock each T-Handle before proceeding
HIGH TRAFFIC HANDLE	LATCH ENGAGEMENT	HOOK ENGAGEMENT
		
Lift the high traffic handle when door is closed to engage locks.	Lifting the handle operates the latch	To lock, lift lever handle and turn key

FAILURE TO CORRECTLY OPERATE THE FOLDING SLIDING DOOR SYSTEM CAN CAUSE DAMAGE TO THE OPERATING MECHANISM AND HARDWARE. THIS CAN CAUSE THE DOOR TO FAIL

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## INSTALLATION

### Sub Cill Installation

Drainage paths through the sub cill and must be free and left un-obstructed by the sub structure or sealing.

On conservatory/dwarf walls only, an additional fixing must be located as shown alongside to secure the frame into the sub cill. Seal under the head to prevent water ingress. Further seals should then be applied and sealed in suite.

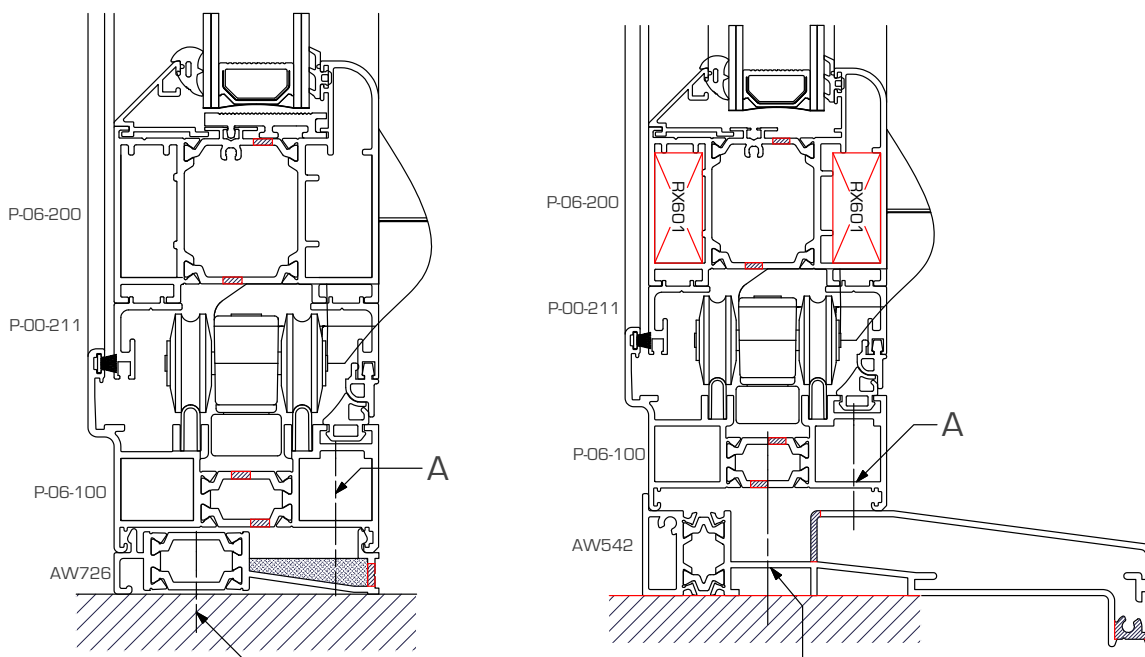
### Drainage Trays

Drainage paths through the sub cill must be left free and un-obstructed by the sub structure or sealing.

The drainage tray must be secured to the structure as shown, using suitable fixings and packed as necessary to ensure it is level.

The drainage tray must then be sealed to the structure along its length and across its ends. Care must be taken to ensure that the portion of the drainage tray that adjoins the jambs of the structure are adequately sealed, to prevent water running off each end of the drainage tray and in to the building.

When fitting the frame to the drainage tray silicon sealant must be gunned as shown alongside to ensure that the watertight joint is created on the inside of the frame.



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## INSTALLATION

### Fitting Frame To Aperture

It is vitally important that the cill is laid flat and level to achieve the optimum performance. Jambs must be vertical in both planes, and no twist or other distortion allowed. Prior to installing the frame, the opening should be checked to ensure that it is free of debris, and that any projecting brickwork has been trimmed back. Any damaged damp proof membranes should be replaced or additional membranes incorporated. When the opening was originally measured a suitable gap should have been allowed around the perimeter of the frame, this will allow the frame work to be packed to ensure that it is plumb and square within the opening. Ideally the frame should be bedded on mortar. The frame can then be positioned in the opening and held square by packing at the very corners, taking care not to damage or deform the profile.

### Tip #

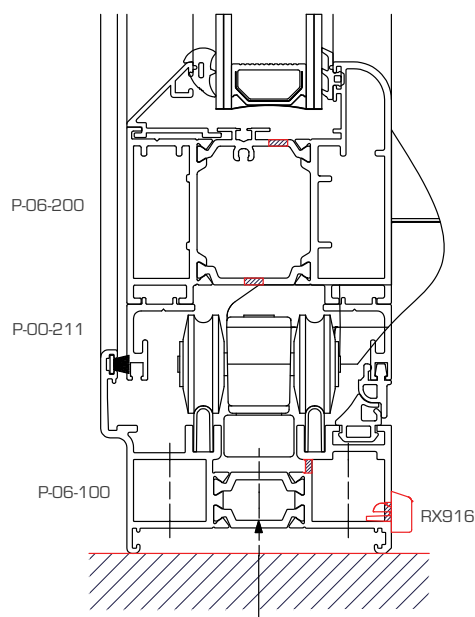
To check for squareness, measure the diagonals from corner to corner, these diagonal dimensions should not differ by more than 1 to 2mm, if so adjusted the packing until the frame is square within the opening. The lay of the frame in to out can be checked by using a spirit level on the jambs. On replacement applications, the correct position of the frame might not be aligned with the originals. This will require some remedial work to make good the plaster reveal around the frame on the internal wall as well as, any render externally.

### Fixing Frames

The first fixing must always occur within 150mm of each corner and at not more than 600mm centres (Do not over tighten fixings), the type and frequency depends on the expected applied loadings. Packing will be required at fixing points to prevent distortion of the frame. Drilled holes in the frame should be sealed where there is a possibility of moisture penetration around the fastener.

### Foam

Fixing foam can be used in conjunction with fasteners, but is not an alternative to screw fixing. Care must be taken not to allow the foam to come in contact with the painted finish, and as such the use of some form of masking tape would be advisable. Permanent staining will be caused if foam comes in contact with the frame.



**IMPORTANT NOTE:** Always cap or seal fixings, especially when securing to any of the Blyweertbeaufort range of cills / drainage trays.

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Alternative Fixing Method  
i.e. Through Thermal Barrier

**NB:** Avoid leaving any screw head sitting proud as this may fool the top / bottom guides.

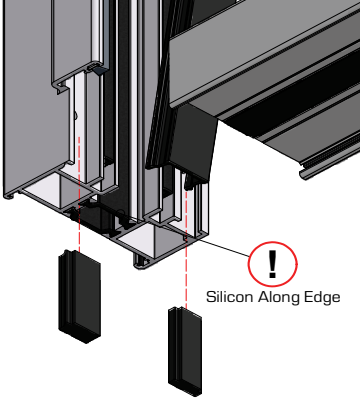
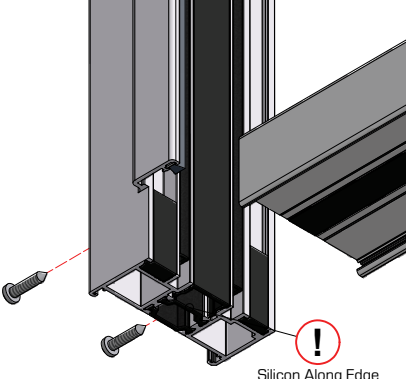
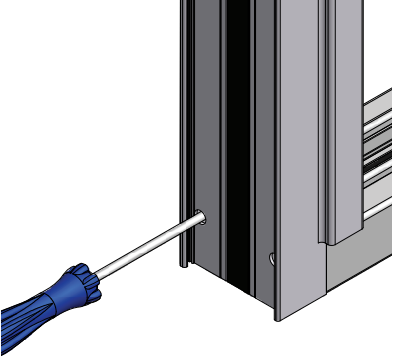
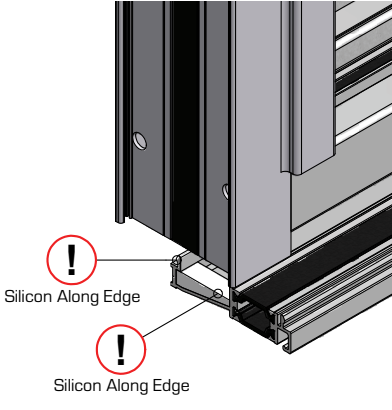
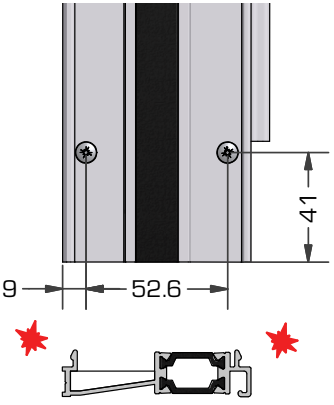
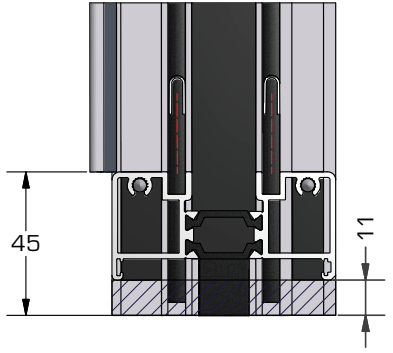
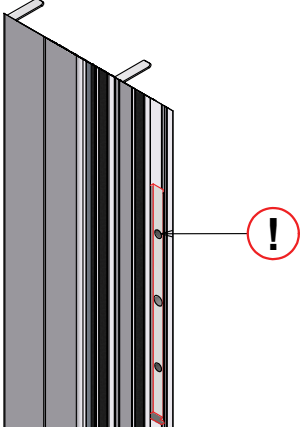
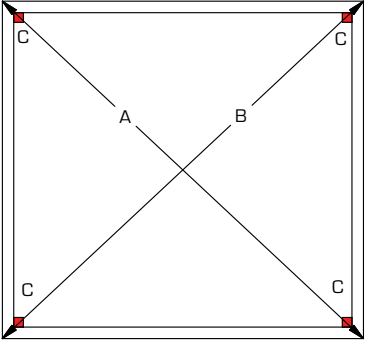
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## PANEL ASSEMBLY

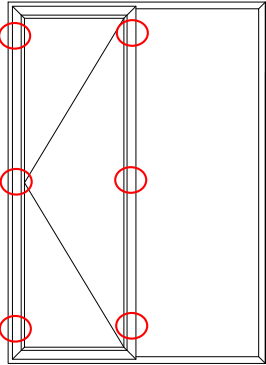
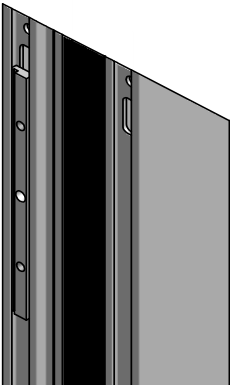
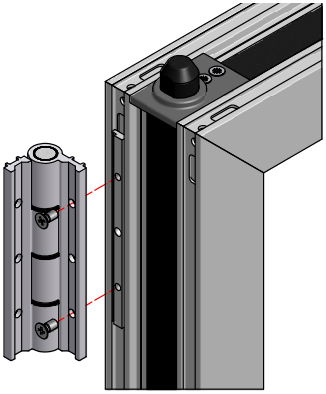
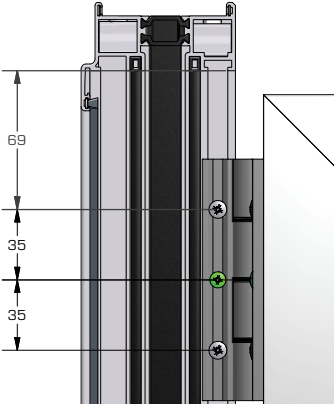
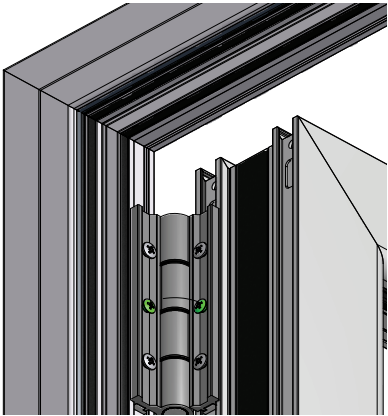
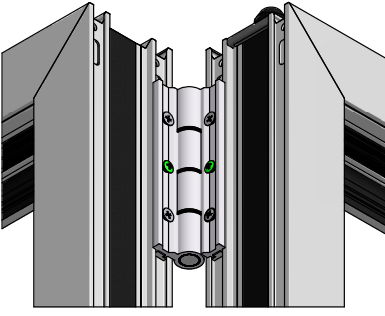
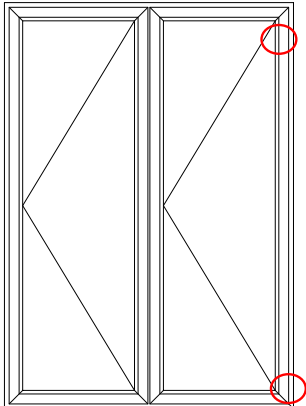
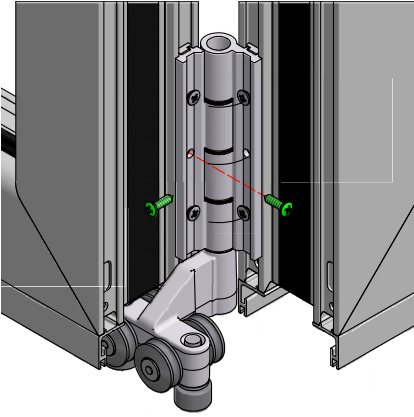
<p>LOW THRESHOLD</p>  <p>Silicon Along Edge</p>	<p>FIXING THRESHOLD</p>  <p>Silicon Along Edge</p>	<p>FIXING THRESHOLD</p> 
<p>Slide gasket RX643 (2) into Outer Frame and clip RX643 into channel</p>	<p>Use 4.2 x 19mm ST SS Screws to assembly outer-frame and cill</p>	<p>Screw from the outside of the frame through to the low threshold</p>
<p>PANEL TO FRAME ASSEMBLY</p>  <p>Silicon Along Edge</p> <p>Silicon Along Edge</p>	<p>LOCATION DIMENSIONS</p>  <p>9</p> <p>52.6</p> <p>41</p>	<p>STEEL TRACK</p>  <p>45</p> <p>11</p>
<p>Seal the threshold using Silicon</p>	<p>The drainage tray should snap into the underneath of the outerframe</p>	<p>Once assembled insert Steel track RX610</p>
<p>OUTERFRAME</p> 	<p>OUTERFRAME</p> 	
<p>Ensure RXD40 hinge backing plates are slid into outer frame before assembly.</p>	<p>Ensure outerframe is square before fixing in place and inserting panels. A=B</p>	

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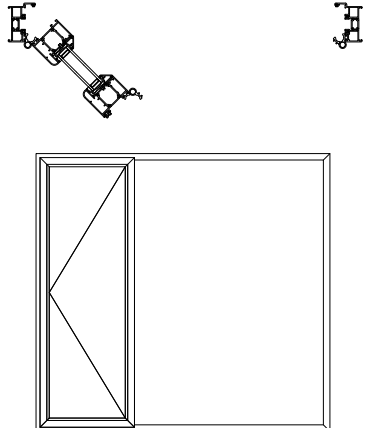
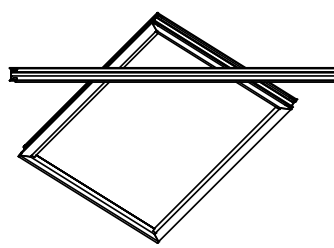
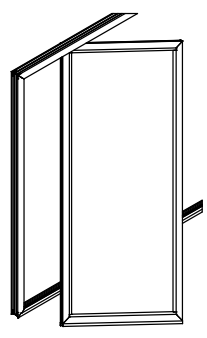
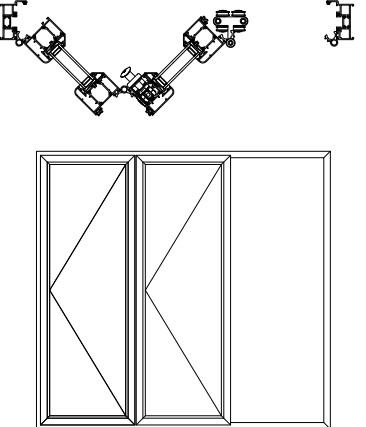
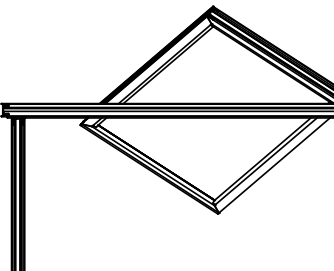
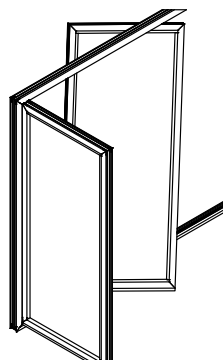
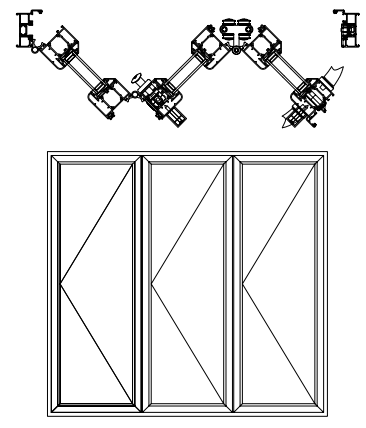
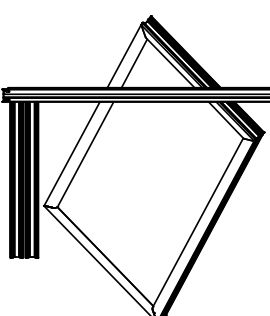
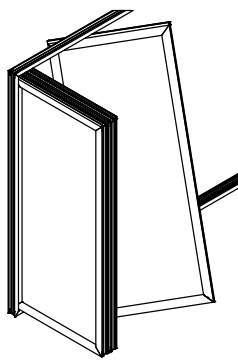
HINGE LOCATION	BACKING PLATE	HINGE TO PANEL
		
<p>Slide backing plate into outerframe before assembly</p>	<p>Slide hinge backing plate into profile, DO NOT fix yet.</p>	<p>Attach the hinge to the backing plate with the 4.2x10mm CS Machine Screw, provided.</p>
PANEL TO FRAME ASSEMBLY	LOCATION DIMENSIONS	SECONDARY PANEL
		
<p>First fixing = 69mm from track, secondary = 35mm, third = 35mm</p>	<p>Once panel is hung and spaced correctly apply final fixing 4.2 x 25mm SS ST Screw</p>	<p>Once fixed repeat for remaining panels.</p>
BOGIE PLACEMENT	ADJUSTMENT	FINAL FIX
		<p>Once glazed and adjusted use a 4.2x25mm Self Tapping Stainless Steel screw to ensure location of hinges and bogies. (Shown in green)</p>
<p>Typical bogie placement</p>	<p>Adjust placement by sliding the backing plate then re-tightening machine screw</p>	<p><b>**ONLY FINAL FIX AFTER GLAZING</b></p>

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## PANEL ASSEMBLY

<p>PANEL 1 - FRONT</p> 	<p>PANEL 1 - TOP</p> 	<p>PANEL 1 ISO</p> 
<p>Fix first panel to outerframe</p>	<p>Angle the panel and lift into place</p>	<p>**ONLY FINAL FIX AFTER GLAZING</p>
<p>PANEL 2 - FRONT</p> 	<p>PANEL 2 - TOP</p> 	<p>PANEL 2 ISO</p> 
<p>Open panel 1 to align panel 2</p>	<p>Tilt the panel into frame and stack panels</p>	<p>**ONLY FINAL FIX AFTER GLAZING</p>
<p>PANEL 3 - FRONT</p> 	<p>PANEL 3 - TOP</p> 	<p>PANEL 3 ISO</p> 
<p>Open panel 1 &amp; 2 to align panel 3</p>	<p>Open panels allow easier hinge location and attachment</p>	<p>**ONLY FINAL FIX AFTER GLAZING</p>

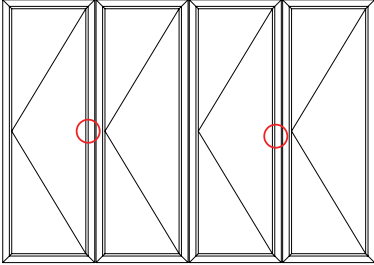
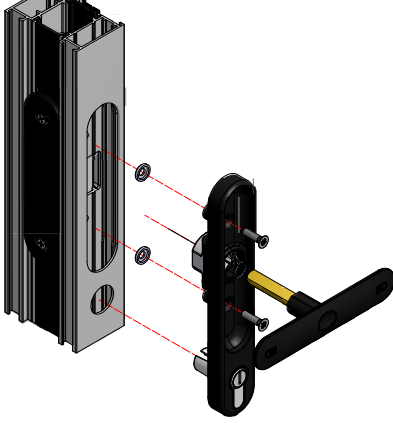

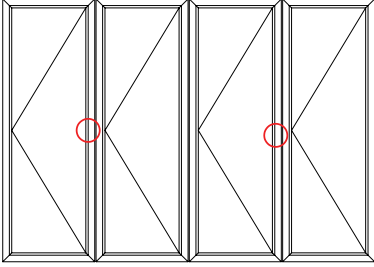
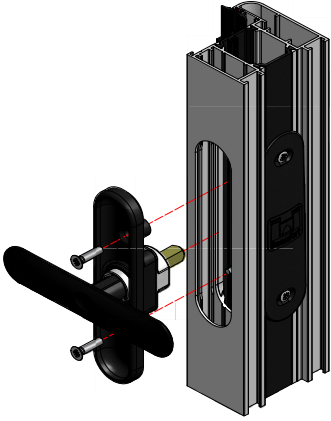

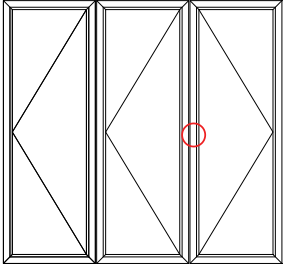
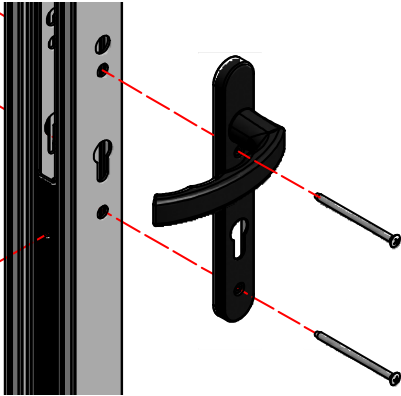
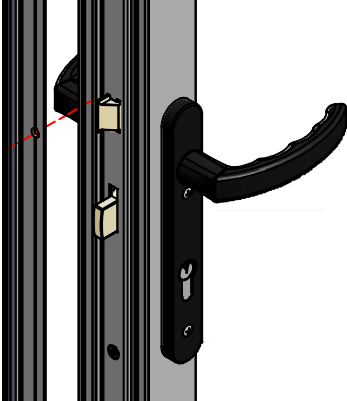
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## HARDWARE ASSEMBLY

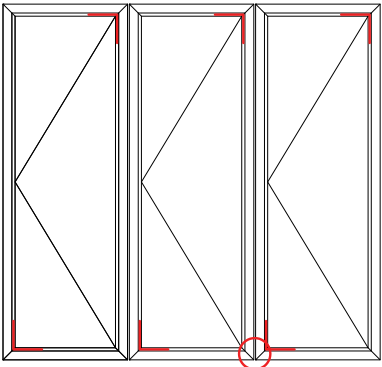
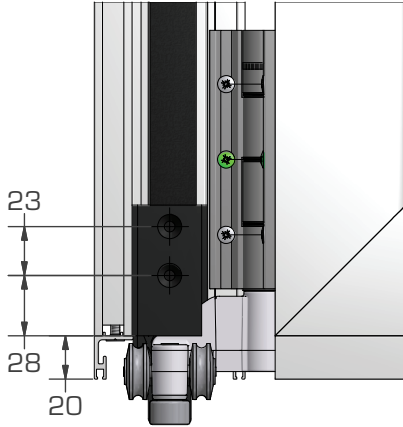
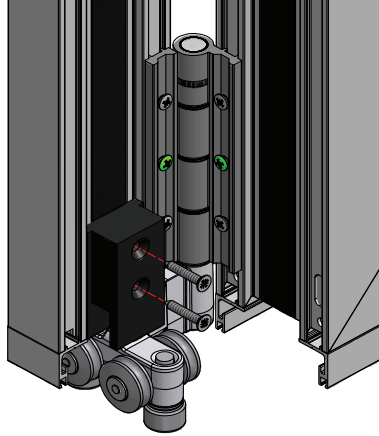
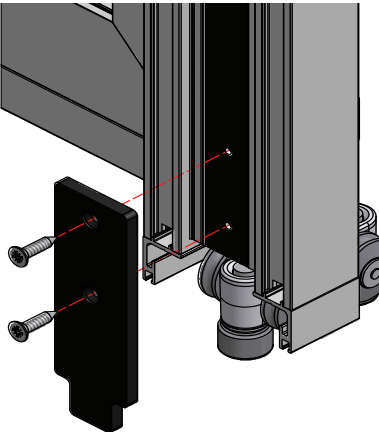
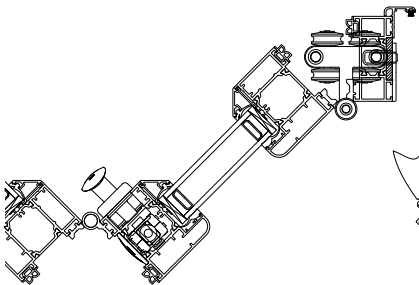
LOCKING T-HANDLE LOCATION	FITTING LOCKING T-HANDLE	LOCKING T-HANDLE FITTED
		
Lockable version of the T-Handle	Fix handle from inside through gearbox	Check handle operates smoothly.
T-HANDLE LOCATION	FITTING T-HANDLE	T-HANDLE FITTED
		
Lockable version of the T-Handle	Fix handle from inside through gearbox	Check handle operates smoothly.
HIGH TRAFFIC HANDLE LOCATION	FITTING HIGH TRAFFIC HANDLE	HIGH TRAFFIC HANDLE FITTED
		
High Traffic Door Handle	Fix handle from inside through into gearbox	Check handle operates hooks and latches when lifted.

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## HARDWARE ASSEMBLY

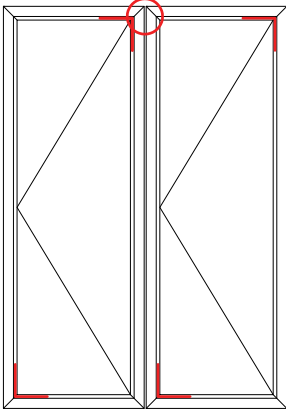
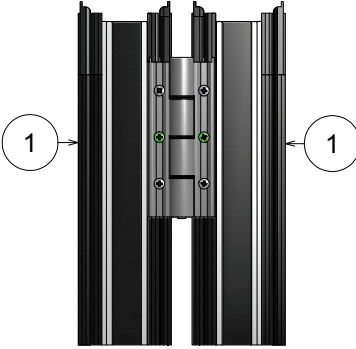


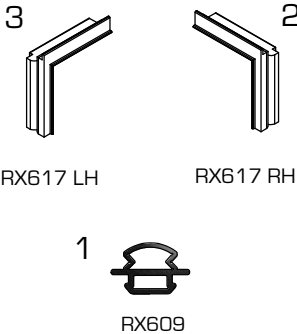
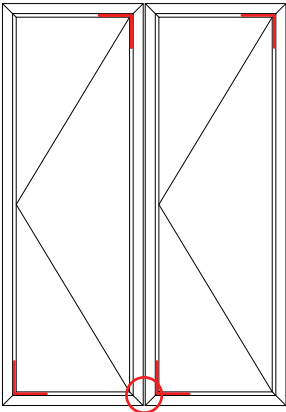
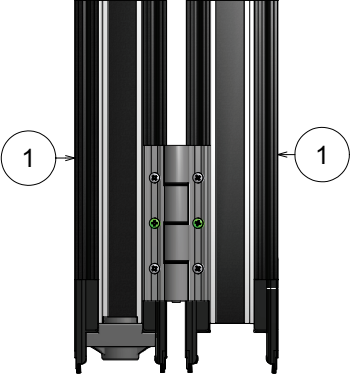

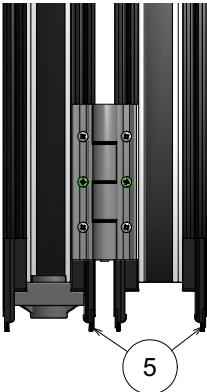
FLOATING MULLION	MULLION BLOCK	RX704 BLOCK LOCATION
		
<p>Floating Mullion Block Location</p>	<p>Slide RX704 block down thermal break to locate over Top and Bottom Bogie(RX701/RX702)</p>	<p>Fix using 4.2x25mm countersunk screws</p>
RX775 MULLION PLATE	FLOATING MULLION	
		
<p>Fit RX775 to the opposite side of mullion using 4.2 x 19mm ST CS screws. Repeat at head</p>	<p>Failure to fit floating mullion blocks may cause mullion to twist.</p>	

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## GASKET CONFIGURATIONS

<p>GASKET LOCATION</p> 	<p>GASKET ID</p> 	<p>GASKET ID</p> 
<p>Hinged panel top configuration</p>	<p>RX609 Interlocking gaskets (x4)</p>	<p>RX617 RH Corner mould (x2)</p>
<p>GASKET LOCATION</p> 	<p>GASKET LOCATION</p>  <p>RX617 LH      RX617 RH</p> <p>1      RX609</p>	<p>GASKET LOCATION</p> 
<p>RX617 LH Corner mould (x2)</p>	<p>Gasket Identification</p>	<p>Hinged panel bottom configuration</p>
<p>GASKET LOCATION</p> 	<p>GASKET LOCATION</p> 	<p>GASKET LOCATION</p> 
<p>RX609 Interlocking gaskets (x4)</p>	<p>RX619 RH Corner mould (x2)</p>	<p>RX619 LH Corner mould (x2)</p>

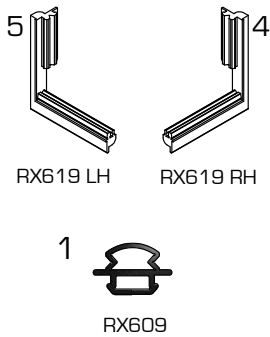
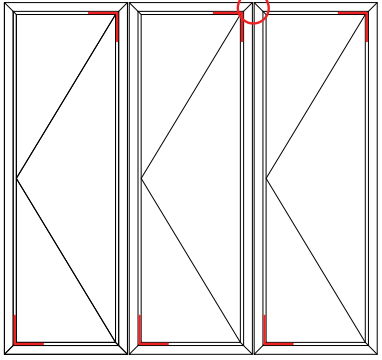
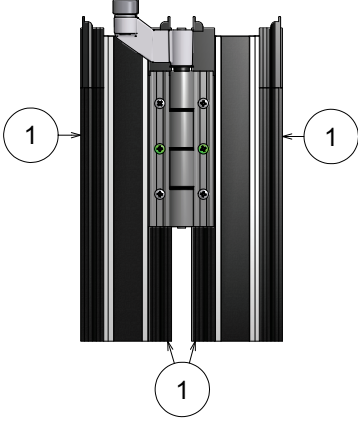

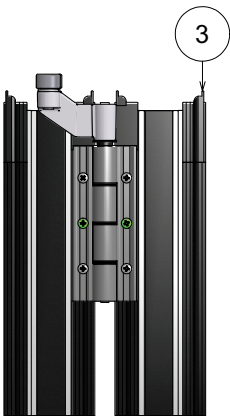


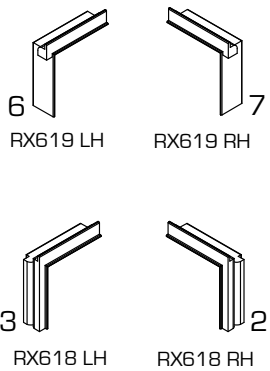

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## GASKET CONFIGURATIONS

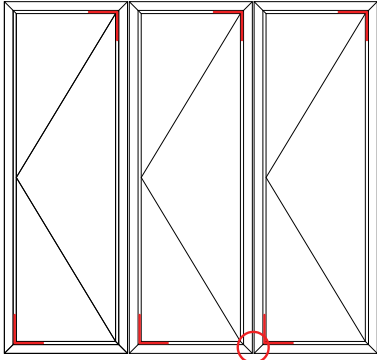

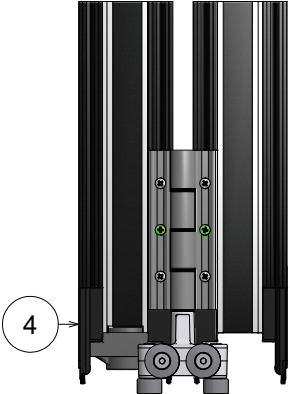
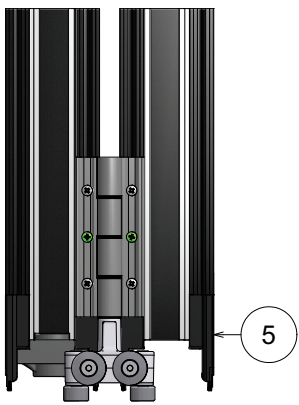
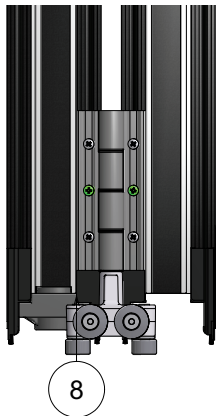

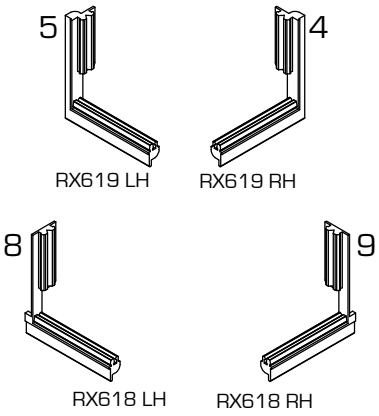
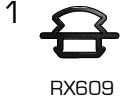
<p>GASKET ID</p>  <p>RX619 LH    RX619 RH</p> <p>1 RX609</p>	<p>GASKET ID</p> 	<p>GASKET LOCATION</p> 
<p>Gasket Identification</p>	<p>Gasket Location Top Bogie</p>	<p>RX609 Interlocking gaskets (x4)</p>
<p>GASKET LOCATION</p> 	<p>GASKET LOCATION</p> 	<p>GASKET LOCATION</p> 
<p>RX617 RH - [x1 shown configuration]</p>	<p>RX617 LH - [x1 shown configuration]</p>	<p>RX616 LH - [x1 shown configuration]</p>
<p>GASKET LOCATION</p> 	<p>GASKET ID</p>  <p>6    7 RX619 LH    RX619 RH</p> <p>3    2 RX618 LH    RX618 RH</p>	<p>GASKET ID</p>  <p>1 RX609</p>
<p>RX616 RH - [x1 shown configuration]</p>	<p>Gasket Identification</p>	<p>Gasket Identification</p>

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## GASKET CONFIGURATIONS

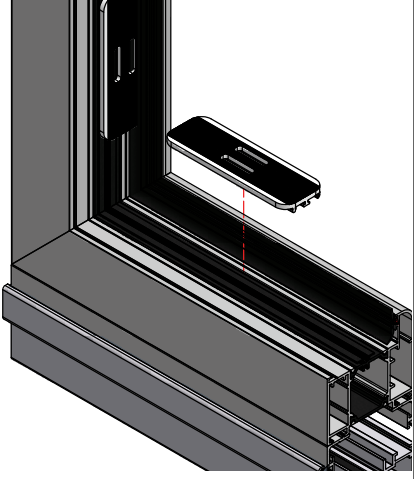
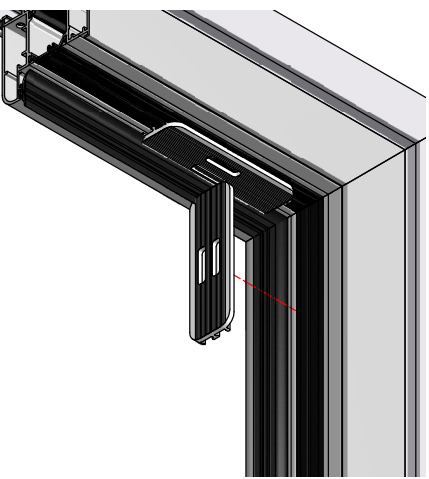
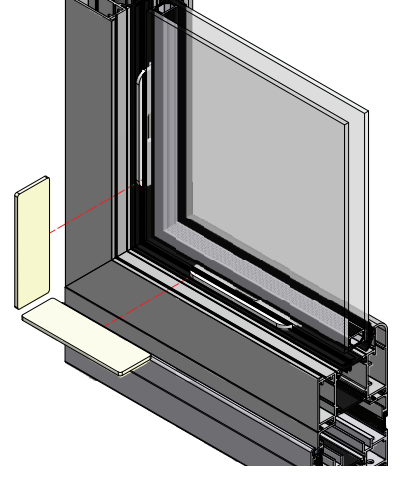
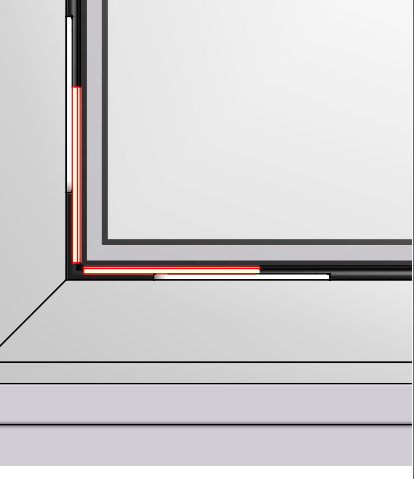
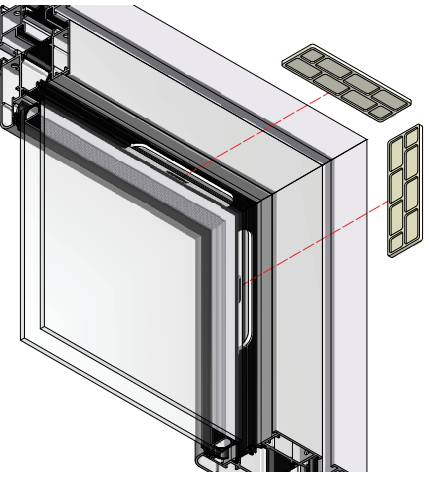
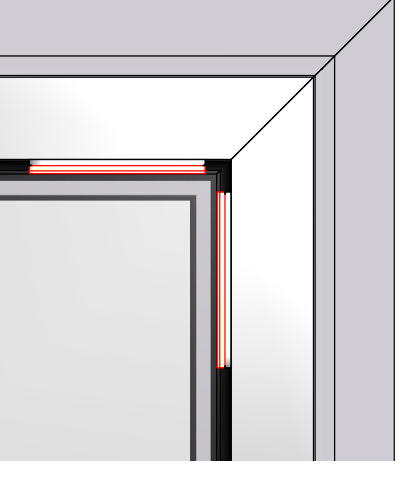
<p>GASKET LOCATION</p> 	<p>GASKET LOCATION</p> 	<p>GASKET LOCATION</p> 
<p>Bottom Bogie Configuration</p>	<p>RX609 Interlocking gaskets [x4]</p>	<p>RX619 RH - [x1 shown configuration]</p>
<p>GASKET LOCATION</p> 	<p>GASKET LOCATION</p> 	<p>GASKET LOCATION</p> 
<p>RX619 LH - [x1 shown configuration]</p>	<p>RX618 LH - [x1 shown configuration]</p>	<p>RX618 RH - [x1 shown configuration]</p>
<p>GASKET ID</p>  <p>RX619 LH    RX619 RH</p> <p>RX618 LH    RX618 RH</p>	<p>GASKET ID</p>  <p>RX609</p>	
<p>Gasket Identification</p>	<p>Gasket Identification</p>	

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## GLAZING

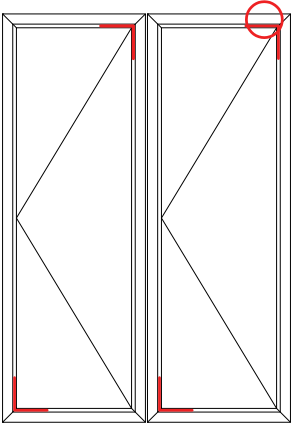
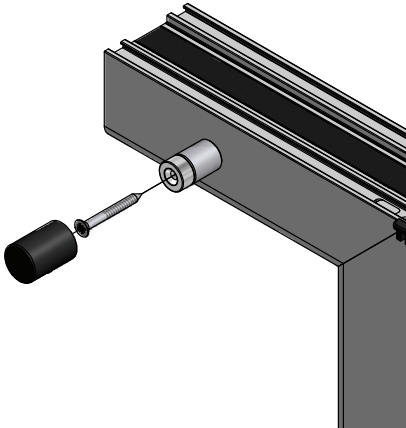
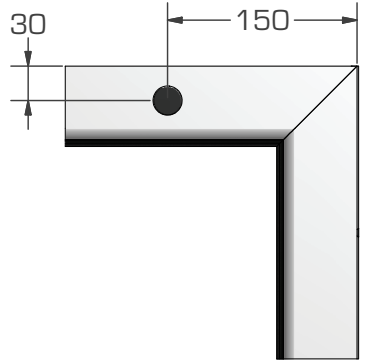

BOTTOM GLASS SUPPORT	GLASS SUPPORT ASSEMBLY	BOTTOM GLASS SUPPORT
		
<p>Place bridge packer on the hinge side along the bottom and vertical sections 150mm from the corner</p>	<p>Place bridge packers 150mm from the corner opposite the hinge side of the panel</p>	<p>Use glazing packers to 'heel' glass in place. Start at the bottom hinge side</p>
BOTTOM GLASS SUPPORT	GLASS SUPPORT ASSEMBLY	BOTTOM GLASS SUPPORT
		
<p>Bottom packers highlighted in RED support the weight of the glass</p>	<p>Pack the opposite upper corner of the non-hinge side of the panel</p>	<p>The upper packers re-distribute the weight of the glass back towards the outer-frame</p>

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## PANEL RETENTION

MAGNET LOCATION	MAGNET FITTING	MAGNET LOCATION
		
<p>Bottom packers highlighted in RED support the weight of the glass</p>	<p>Screw magnet to door using screw provided</p>	<p>Magnet location as above</p>
<p>MAGNET FITTED</p>		
		
<p>Located at the top of connected panels</p>		

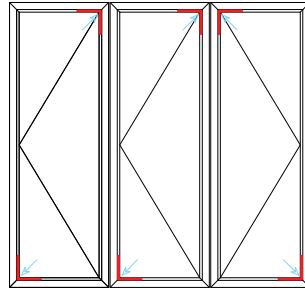
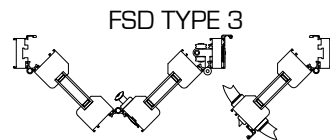
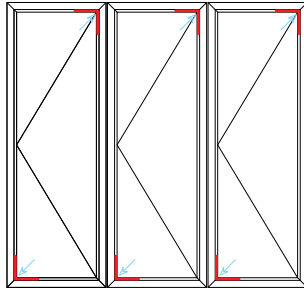
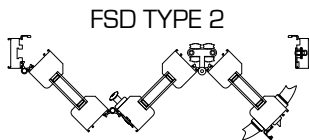
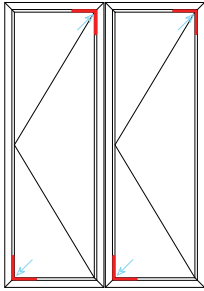
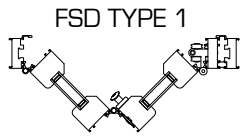
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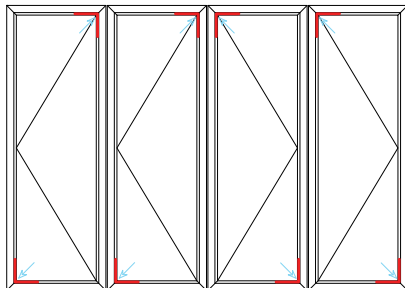
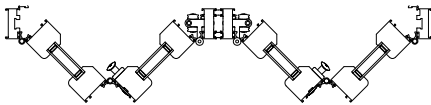
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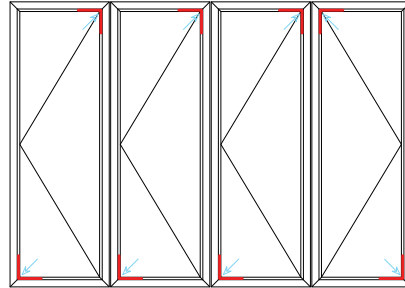
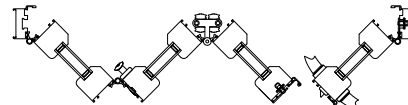
## TOE & HEEL TYPE CONFIGURATIONS



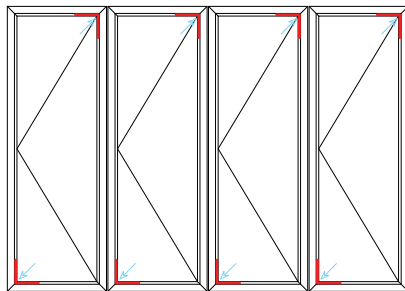
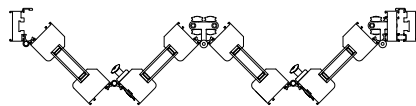
FSD TYPE 4



FSD TYPE 5



FSD TYPE 6



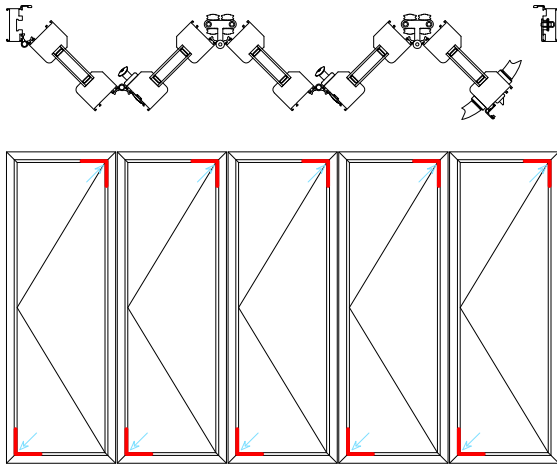
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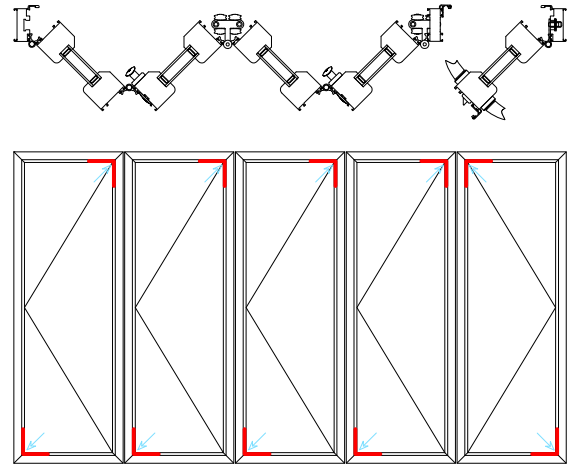
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## TOE & HEEL TYPE CONFIGURATIONS

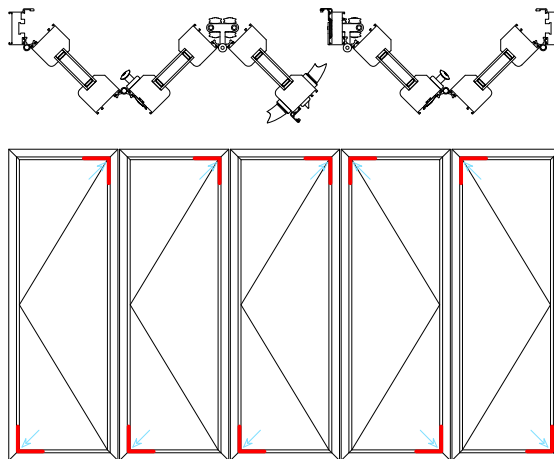
FSD TYPE 7



FSD TYPE 8



FSD TYPE 9

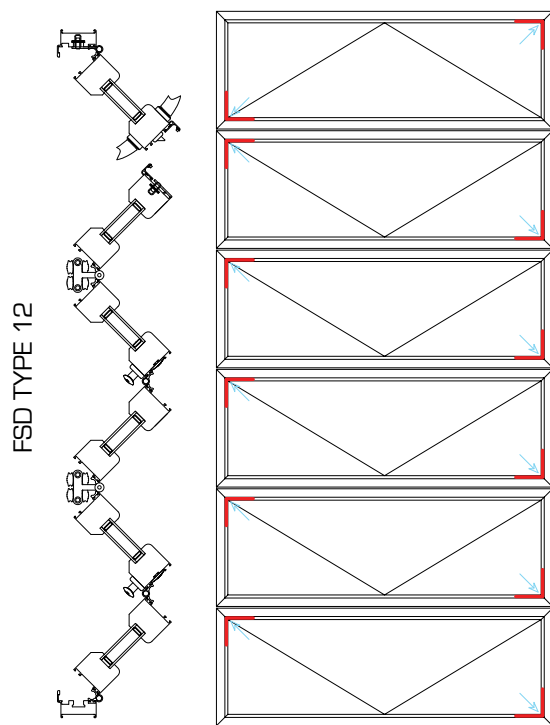
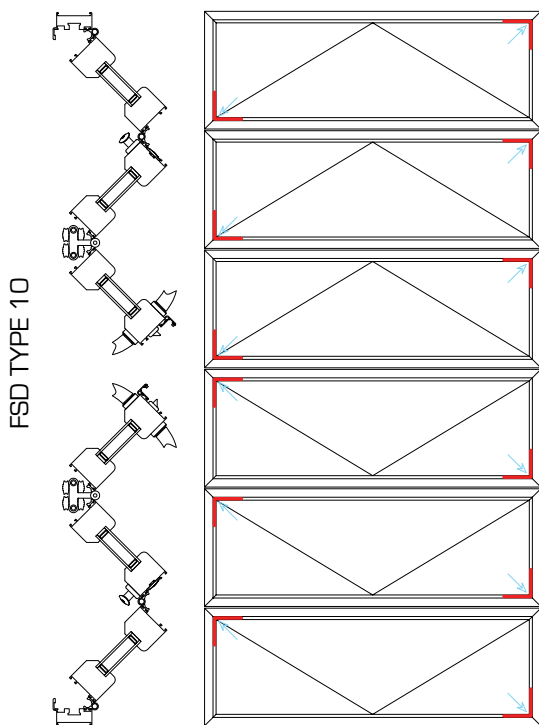
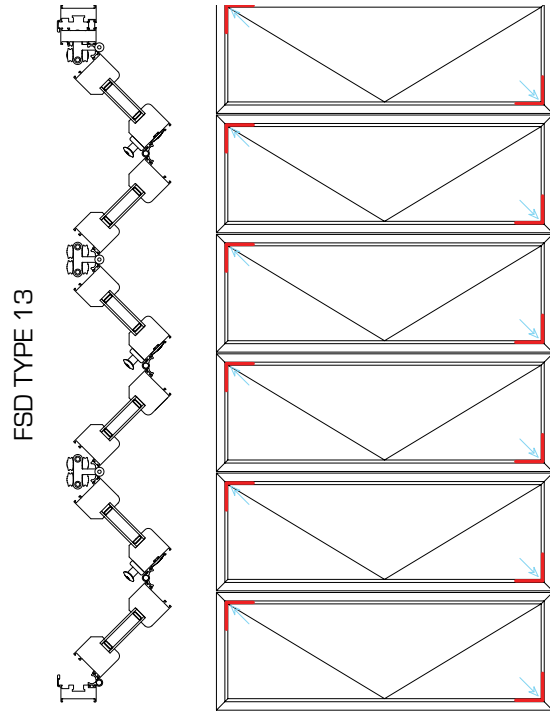
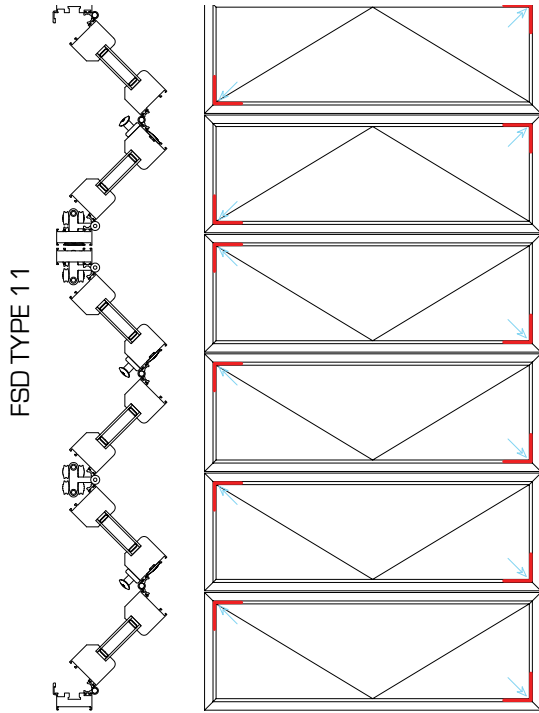


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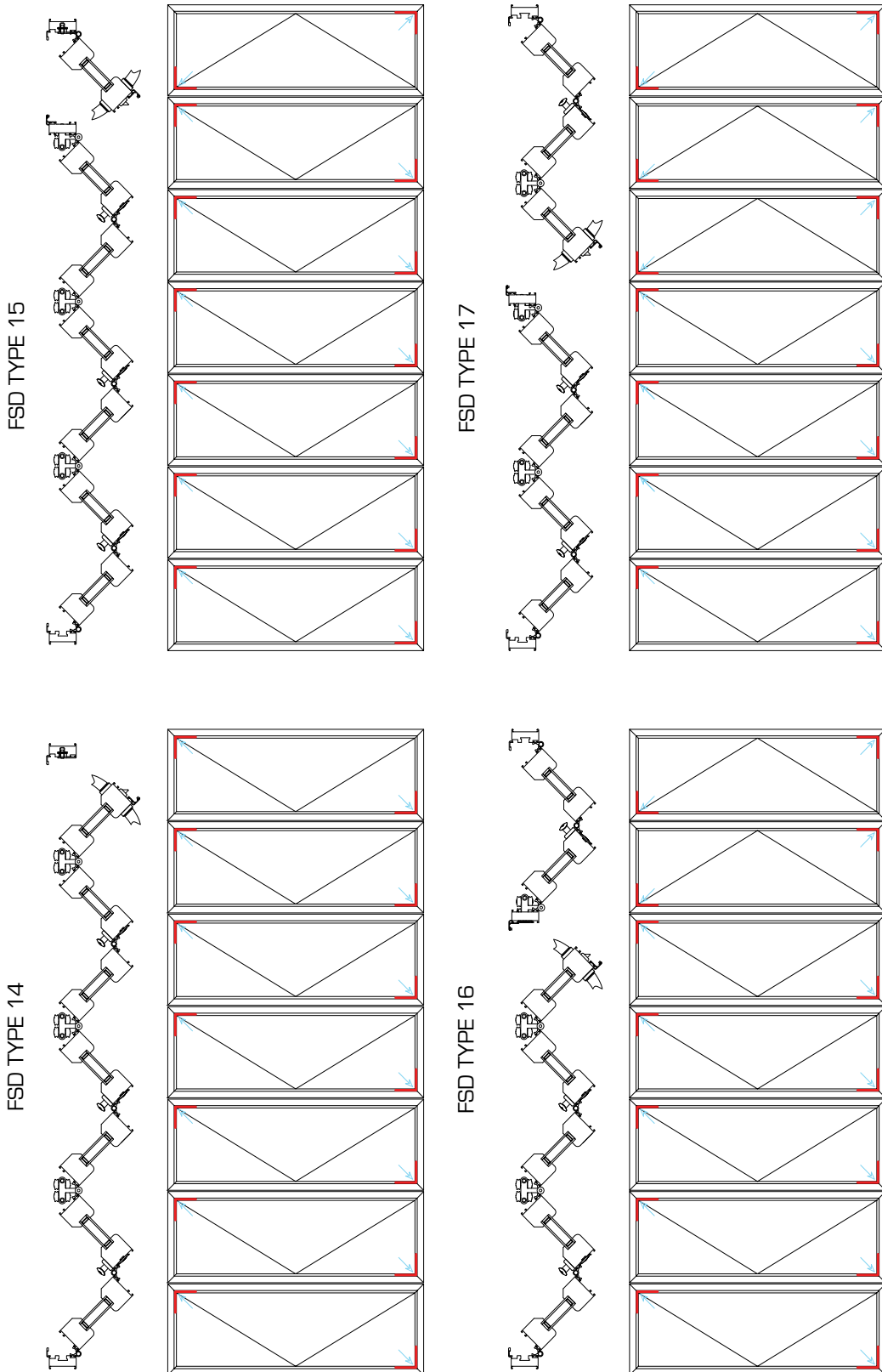


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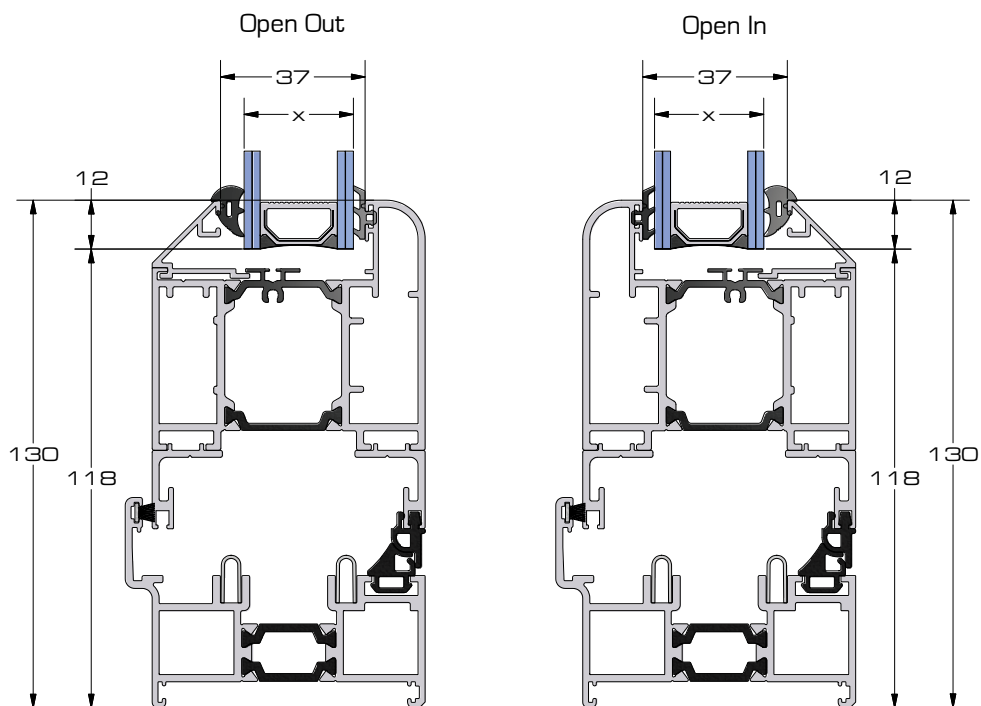


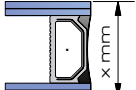



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## GLAZING OPTIONS



 x mm			
28mm	AW513, AW660	A-GS-504	A-GS-306
32mm	AW630, AW668	A-GS-504	A-GS-306
36mm	AW514	A-GS-504	A-GS-306
44mm	AW666	A-GS-504	A-GS-306

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