



GT4 - 01

Size Limitations

(Commercial Entrance Door & Screen)

GT4 - 02/04

Commercial Screen Installation

GT4 - 05/06

Glazing - Commercial Screen

GT4 - 07/08

Door Leaf Installation & Adjustment

GT4 - 09/10

Installing Inserts & Drainage

GT3 - 11/12

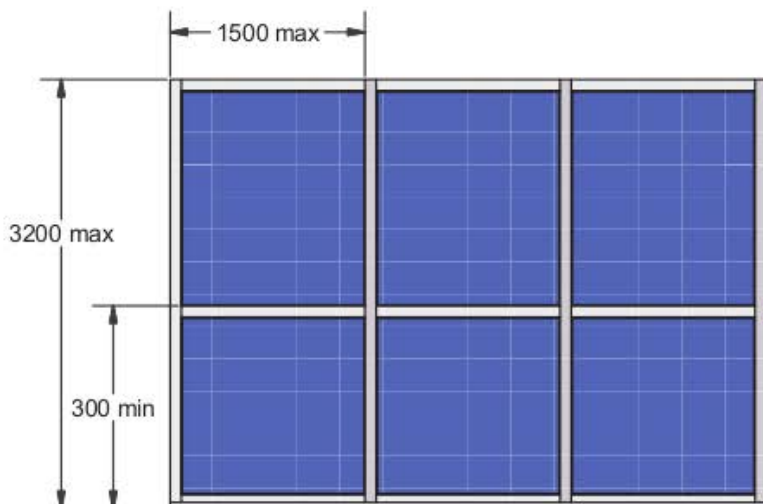
Cleaning & Maintenance

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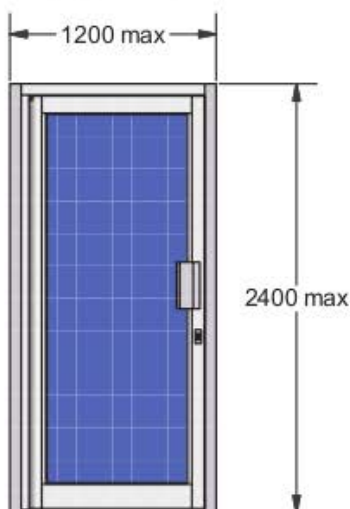
SIZE LIMITATIONS - SCREENING



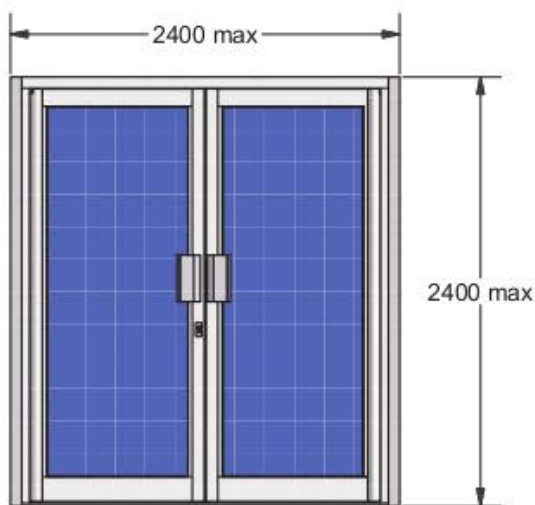
Important Note:

Any unit required above limits stated may require additional reinforcements, please consult Beaufort technical department.

Single Door



Double Door



Door Closer Size Limits

Spring	Max Door Width	Max Door Weight	Max Door Height
Medium	950 mm	60 kg	2400 mm
Heavy	1100 mm	80 kg	2400 mm

Important Note:

For rebated door size limitations please consult Beaufort technical department.

General Notes:

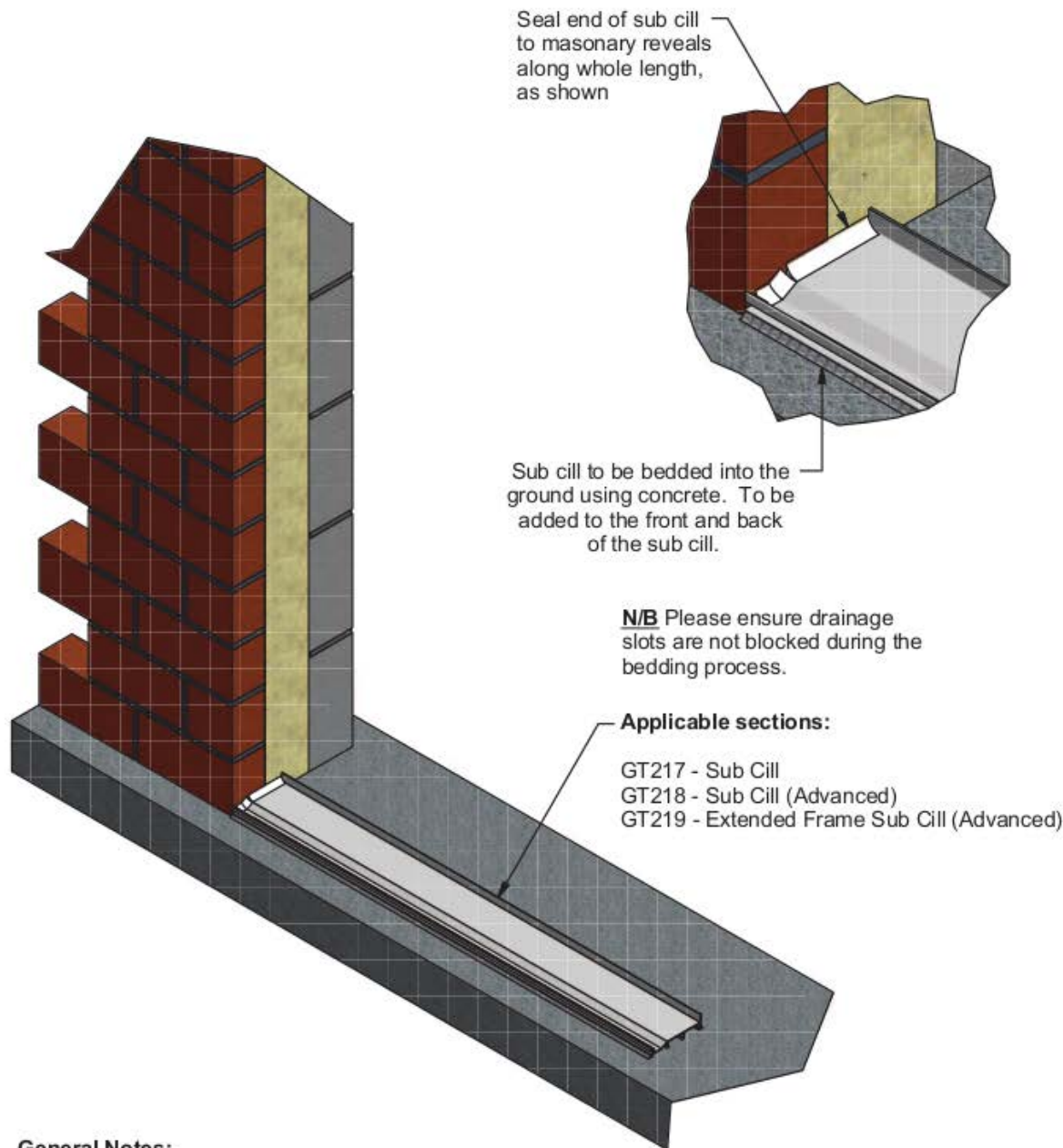
- 1). If in doubt about any frame construction, consult Beaufort's technical department.
- 2). Ensure that all limits, max and min, are within your manufacturing capability.
- 3). Ensure that all hardware used is suitable for the application and will give optimum product operation and performance.
- 4). Points to consider for large frames are: factory storage, transportation, ease of installation, and glass handling.

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FRAMING INSTALLATION - CILLS



General Notes:

- 1). It is recommended that all sub cill profiles are prepared to allow for outward drainage of water (See GT2 - 20).
- 2). Please check opening size to ensure framing can be fixed square in the opening.
- 3). When fixing, use packers where required to ensure sub cill is level and to prevent distortion when frame is installed and fully glazed.
- 4). Beaufort Secure Design will not accept responsibility for water penetration where cill drainage is blocked or not provided.

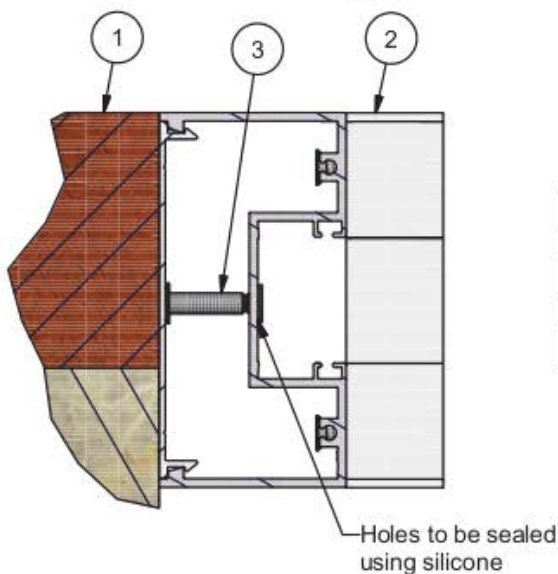
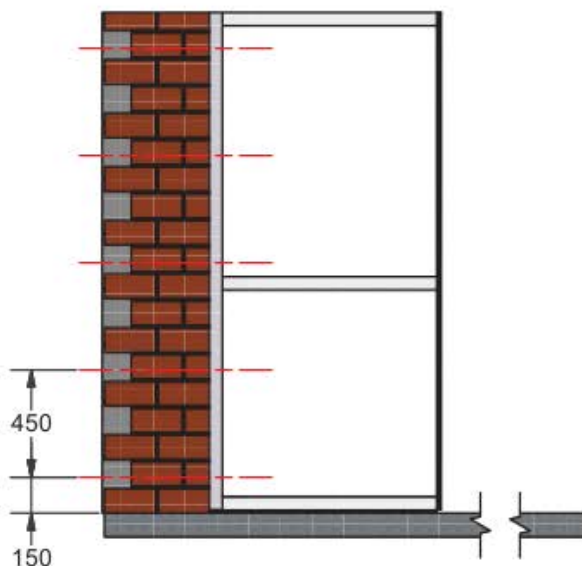
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FRAMING INSTALLATION - FIXING FRAME MEMBERS TO MASONRY

Recommended Fixing Positions



Parts List		
ITEM	PART NUMBER	DESCRIPTION
1	Wall	Brick Wall
2	GT201/GT203/GT321/GT220	Framing Profile
3	Ø8 x 80mm	Fischer Fixing Screws

General Notes:

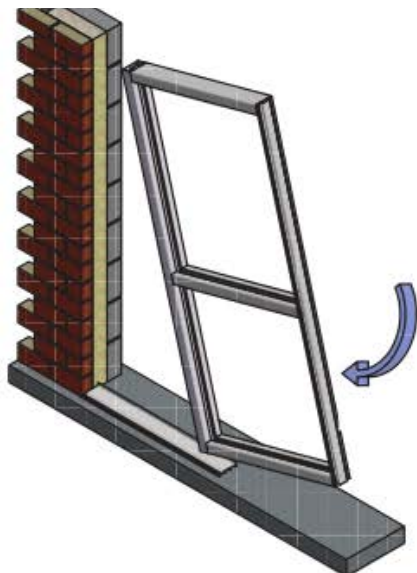
- 1). When fixing the outer frame to the wall, Ø9mm holes are to be drilled through the frame profiles (GT201, GT203, GT321 & GT220), 150mm from corners of the frame and at a maximum of 450mm centres around the frame.
- 2). Using the pilot holes drill through the brick work.
- 3). Fix the frame using packing shims where required making sure the frame is sat square into the recess.
- 4). Finally tighten all fixings, taking care not to distort the frame. **NB** All fixing holes to be sealed using silicone.

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FRAMING INSTALLATION - MODULAR FRAMING



Once the initial frame and sub cill are installed, it is now possible to attach additional screening and door frame profiles. Please refer to images and details below.

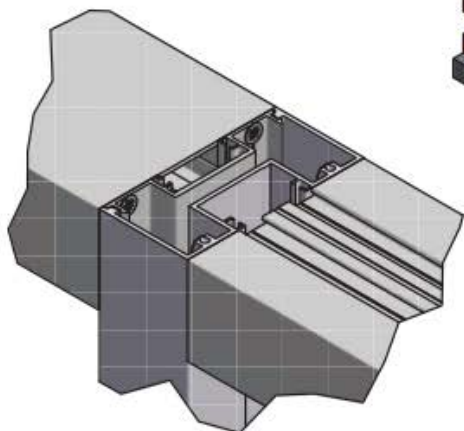
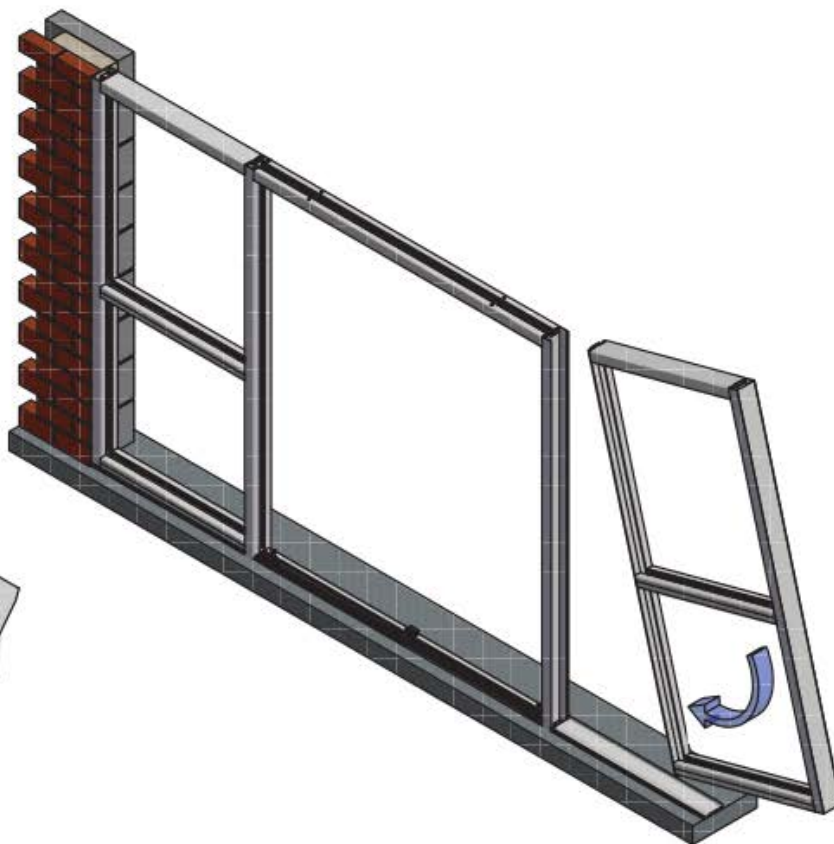


Diagram A

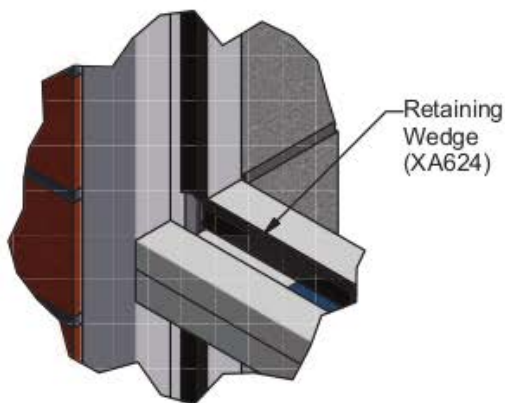


Diagram B

General Notes:

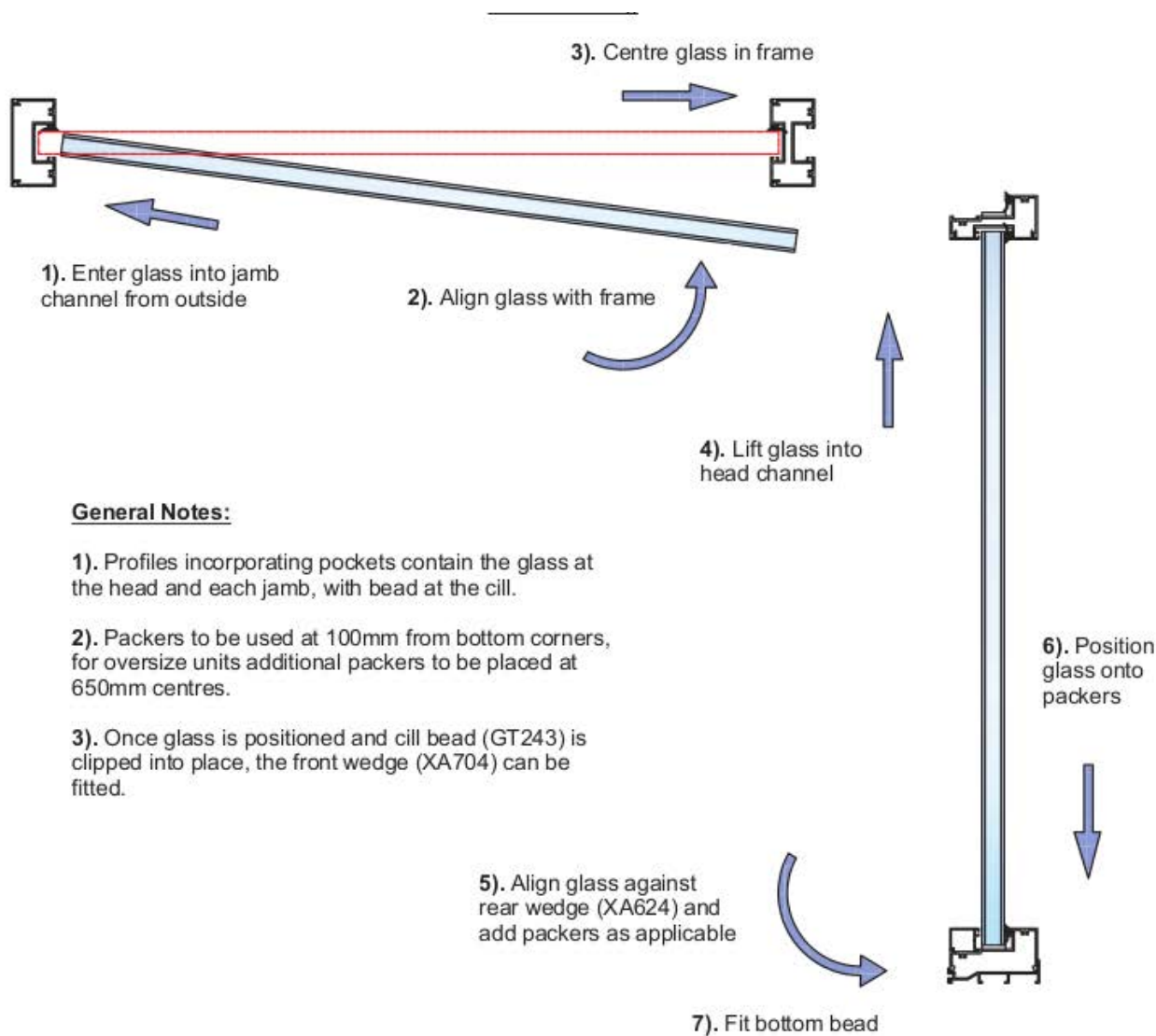
- 1). When fixing frames together, each frame is to be clipped onto the previous (Ref Diagram A). This process is to be repeated for multiple framing profiles.
- 2). Retaining wedge (XA624) to be installed (Ref Diagram B) before glazing the frame.

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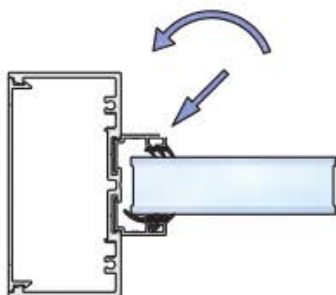
GLAZING - POCKET GLAZING



General Notes:

- 1). Profiles incorporating pockets contain the glass at the head and each jamb, with bead at the cill.
- 2). Packers to be used at 100mm from bottom corners, for oversize units additional packers to be placed at 650mm centres.
- 3). Once glass is positioned and cill bead (GT243) is clipped into place, the front wedge (XA704) can be fitted.

Bead Glazing



General Notes:

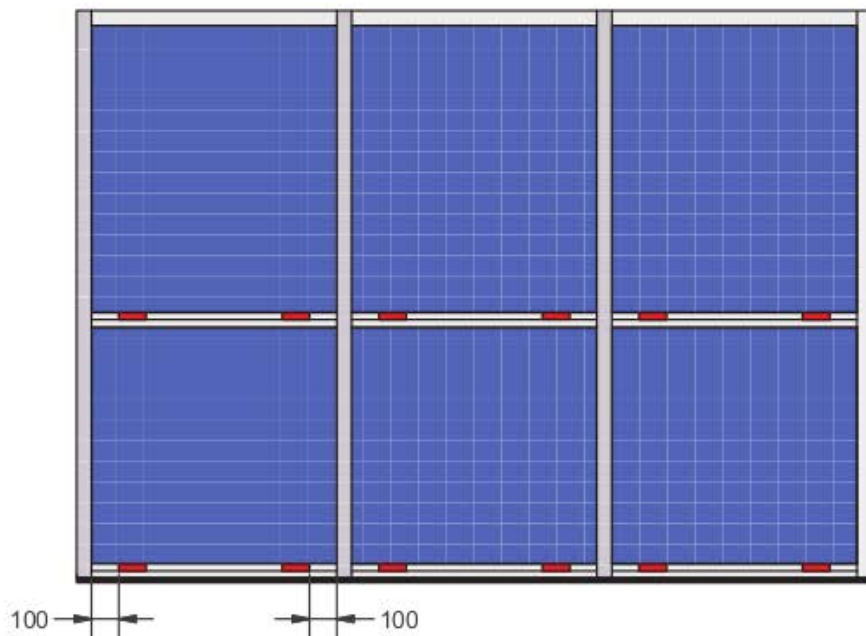
- 1). Install rear bead complete with rear wedge as indicated.
- 2). Align Glass against rear wedge (XA241), ensuring relevant packers are used.
- 3). Install front bead (XA241) using method employed previously.
- 4). Once glass is positioned and bead (GT241) is clipped into place, the front wedge (XA704) can be fitted.

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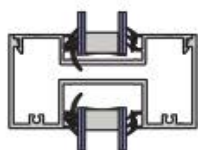
GLAZING PACKERS



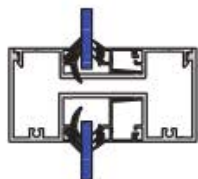
General Notes:

- 1). Once the glass is sat square against the rebate, the next stage is to pack the glass in place.
- 2). Packers to be placed 100mm from edge of frame, as seen above.
- 3). Oversize units to have additional packers placed at approx 650mm centres.

For alternative glazing options please refer to table below.



GT201/GT224
Double Glazed
(Pocket)



GT244/GT245
Single Glazed
(Pocket Adaptors))

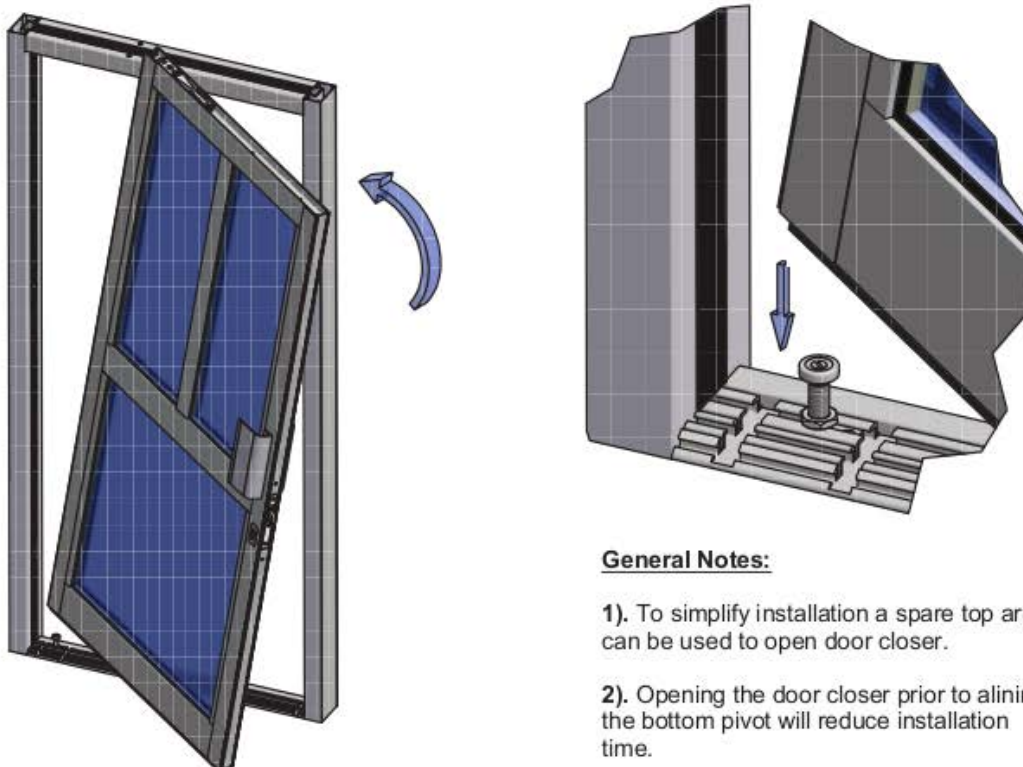
Pocket Width 37 mm :		
Glass Size (mm)	Internal Gasket	External Gasket
32 mm Glazing	XA704 - 3.5 mm (Wedge)	XA906(I) - 1.5 mm (Push-in)
30 mm Glazing	XA704 - 3.0 mm (Wedge)	XA624 - 4.0 mm (Push-in)
28 mm Glazing	XA704 - 5.0 mm (Wedge)	XA624 - 4.0 mm (Push-in)
24 mm Glazing	XA704 - 5.0 / 7.0 mm (Wedge)	XA704 - 5.0 / 7.0 mm (Wedge)
Pocket Width 18 mm :		
Glass Size (mm)	Internal Gasket	External Gasket
11.6 mm (Laminate)	XA704 - 2.5 mm (Wedge)	XA624 - 4.0 mm (Push-in)
10 mm (Toughened)	XA704 - 4.0 mm (Wedge)	XA624 - 4.0 mm (Push-in)
6 mm (Toughened)	XA704 - 5.0 / 7.0 mm (Wedge)	XA704 - 5.0 / 7.0 mm (Wedge)

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DOOR LEAF INSTALLATION



General Notes:

- 1). To simplify installation a spare top arm can be used to open door closer.
- 2). Opening the door closer prior to aligning the bottom pivot will reduce installation time.

To install a door, firstly place the door onto the bottom pivot. When in place ensure the pivot engages with the bottom pivot shoe attached to the door leaf. This is demonstrated in the diagrams above.

The next step is to engage the top arm to the closer spindle. This process can vary dependent upon the type of door closer being used, the Beaufort system is designed in accordance with the two types of door closer available, end loaded and side loaded.

End Loaded

The end loaded door closer is used with GT312 - Anti Finger Trap Stile and GT315 - Anti Finger Trap Panic Bar Stile. To install an end loaded door, set the closer in the fully open position, this will require the door closer to be set at the slowest shutting speed. The door can then be pivoted, whilst on the bottom shoe, into position as the door closer arm rotates.

Once the door is positioned correctly, the fixing block can be attached using the screws as supplied with the door closer. The door closer can now be set to the appropriate closing speed and the cover plate attached.

Side Loaded

The side loaded door closer is used with GT310 - Narrow Door Stile and GT311 - Wide Door Stile. To install a side loaded door, the door is fitted without moving the door closer top arm. Whilst the door is positioned on the bottom shoe, as described earlier, the door is simply turned into the closed position where the pivot engages with the top arm.

Once the door is positioned correctly, the fixing block can be attached using the screws as supplied with the door closer. The door closer can now be set to the appropriate closing speed and the supplied cover plate attached.

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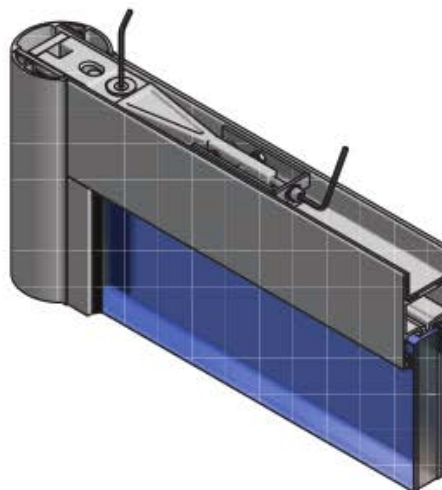
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DOOR CLOSER - ADJUSTMENT

Door alignment with frame when closed

- 1). Loosen socket head countersunk screw in top of closer arm
- 2). The head of door can be moved towards the hinge by clockwise adjustment of grub screw (and vice versa) for the end of closer spindle arm. Ensure that the adjustment screw bears firmly against the end of closer arm.
- 3). Finally secure the socket head countersunk screw in the top of the closer arm.



Setting neutral position of door

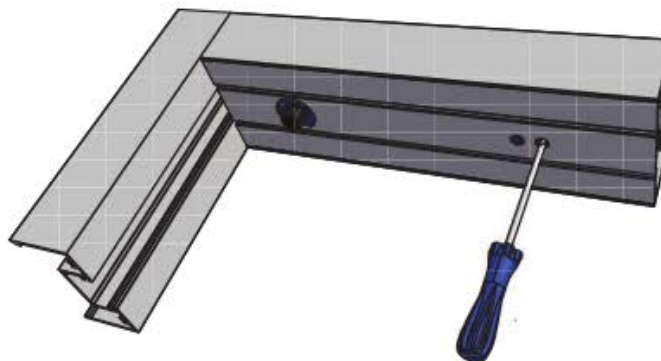
- 1). Neutral position is regulated by two hex head bolts at top of the closer arm, which should be locked tightly in opposition. (If necessary, one bolt may be omitted to obtain maximum adjustment in which case the remaining screw is securely tightened to hold arm against opposite flange)

Adjustment of closing speed

- 1). Start with latch valves open (anticlockwise).
- 2). Adjust latch valve (furthest from spindle) by opening the door to 20° and allowing it to close. (clockwise = slower, anticlockwise = faster)
- 3). Adjust sweep valve (nearest to spindle) by opening the door to 90° and allowing it to close. (clockwise = slower, anticlockwise = faster)

Important Note:

Be careful not to undo the adjustment screws in the sweep/latch valves too far, as this may cause oil to leak from the closer and could eventually cause the mechanism to fail.



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SCREEN INSERTS

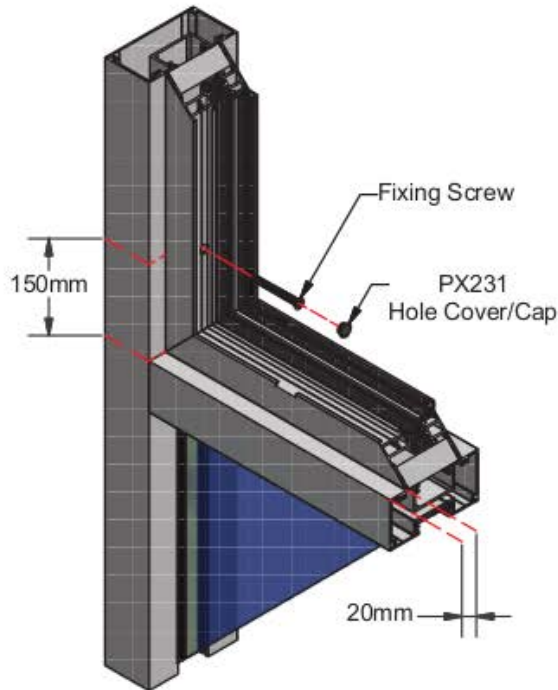
When fixing any of the Beaufort window system's into a screen, it is important to secure the window in place at 150mm from each corner and then at a maximum of 300mm centres.

Beaufort **DO NOT** recommend fixing the base of the window to the screen as this may cause water to track to the frame below.

Fixing Method:

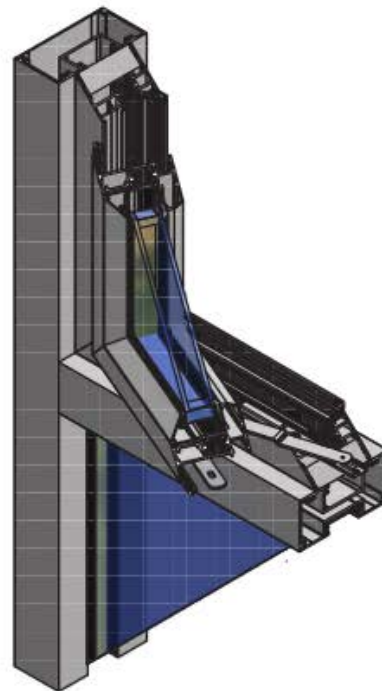
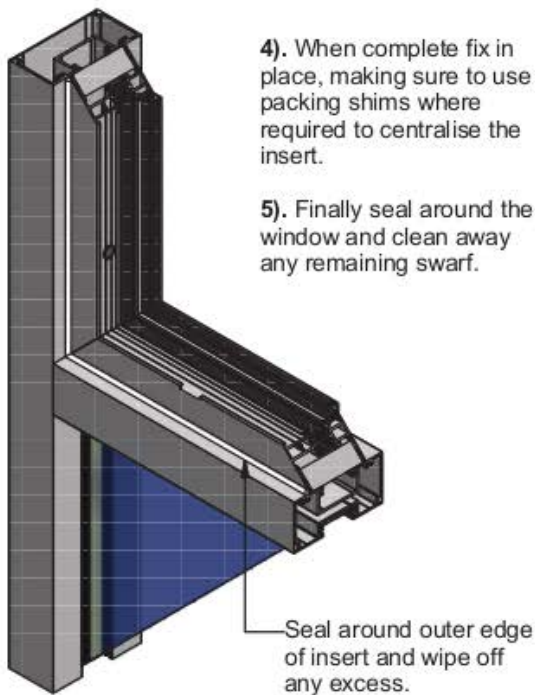
- 1). Drill through the bead channel in the outerframe of the window using a 6mm pilot hole.
- 2). Position the window leaving a 20mm gap either side of the screen. Make sure the window is sat square within the aperture before fixing.
- 3). Using the pilot holes drill through to the pocket of each mullion/transom within the screen.

Be careful not to continue drilling through to the pocket in the other side of the transom/mullion.



- 4). When complete fix in place, making sure to use packing shims where required to centralise the insert.

- 5). Finally seal around the window and clean away any remaining swarf.



Important Notes:

Remember to drill a 10mm clearance hole in the outerframe of the insert to allow access with a screw driver.

Cap off each clearance hole using PX231 and clean away any swarf present.

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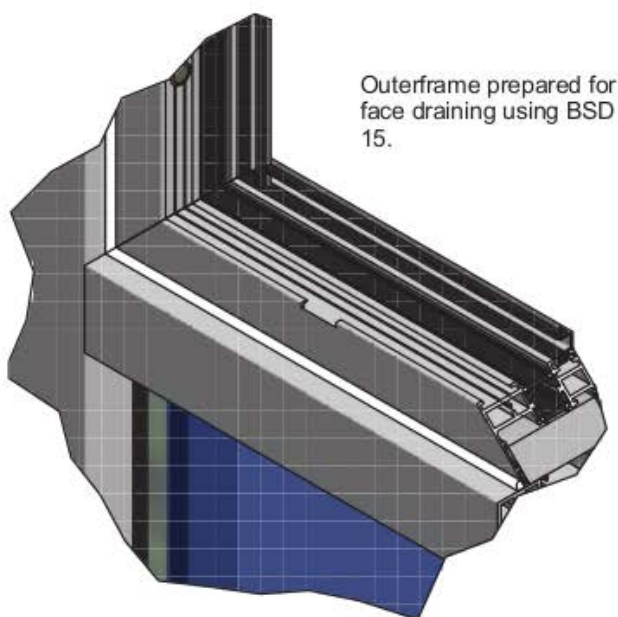
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DRAINING INSERTS

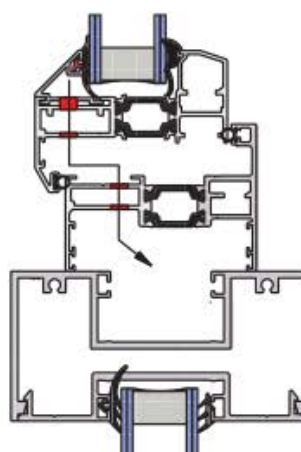
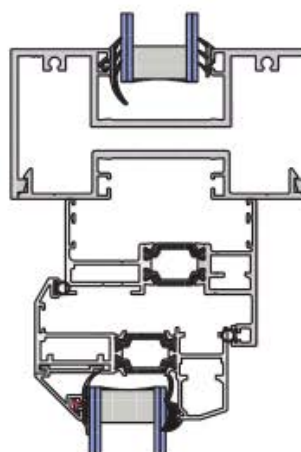
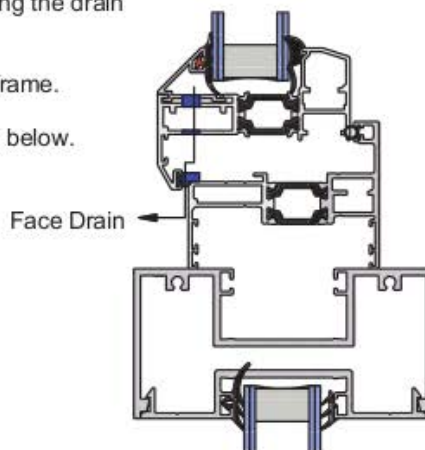
When using any of Beauforts window system's it is important to drain the window using one of the following recommended methods:

- 1). Face drain through the bead channel in the outerframe using the drain cropping tool (BSD 15)
- 2). Internally drain through the pocket in the transom or outerframe.

For further information regarding drainage paths see example below.



Outerframe prepared for face draining using BSD 15.




Important Notes:

All window sections should be drained, failure to do so may cause water ingress and nullify the sealed unit guarantee.

Drain slots should be 25mm long and offset through the sections. Minimum width should be 5mm.

Drain approximately 75mm from corners and a minimum of 600mm centres between slots.

When drilling a drain hole a minimum diameter of 8mm must be used and countersunk to remove burrs.

 Shaded area shows the Beaufort approved method of draining the window system.

 Alternative drain path if system is not internally drained.

Remember when using this method to notch back the bubble seal to allow water to escape.

Internally Drained

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CLEANING

All 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.

Glass may be cleaned using warm soapy water, a mild diluted detergent or an appropriate glass cleaner. The surface should be cleaned using a soft cloth or sponge.

Gaskets (some will only be visible with door open) may be cleaned using warm soapy water or a mild diluted detergent using a soft cloth or sponge. Handles and other items which are visible when the door is closed may be cleaned using the same method as described above.

All areas to be thoroughly rinsed and dried after cleaning.

All inner chambers of the door (surfaces visible when door is open) should be kept free of dirt and debris. Always ensure that drainage slots or holes are clear.

Parts exposed when the door is open including face plates, butt hinges and hook bolts should be wiped clean of residue lubricant and grime. These mechanisms should then be lubricated using a light machine oil. Always ensure excess oil is wiped away

Hardware



Glazing & Gaskets



General Notes:

If hardware is found to be faulty or broken, it should be replaced by experienced personnel only.

To ensure that all doors are kept clean and in working order, we recommend that the instructions listed above are followed. Cleaning and maintenance should be carried out twice yearly (spring & autumn), more frequent cleaning may be required in industrially polluted or coastal areas.

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SEALING

For perimeter sealing of aluminium, choose a flexible, preferably extrudable, material capable of forming a watertight interface with aluminium.

The material chosen should have a prolonged service life, i.e. be compatible with Beaufort products, which are extremely durable and require minimal maintenance.

Fit backing strip where necessary and apply sealant in minimum 6mm x 6mm cross section, or in accordance with sealant manufacturers recommendations.

Excess sealant is to be cleaned off immediately to prevent permanent damage to metal finishes, synthetic rubber or plastic which may be present.

After Installation

Take particular care if cement or plaster is being used on the aluminium as it is harmful to the metal finish. If contact is made this should be washed off immediately while it is still wet. Do not rub off particles of grit as it will permanently damage the metal finish.

The door and its finish may be damaged by items knocked against it or left in contact with it. It is important that products with protective tape are not left in exposed conditions (hot, cold or wet) for long periods of time. Ensure that protective tape is removed from all products immediately after installation is complete.

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