DOORS AND WINDOWS

OW-80 Window Specification File



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Specification Overview

Thermally Broken Aluminium Window



External view of the OW-80







Profile Specification

Outer Frame Depth	80mm
Sash Depth	80mm
Frame and Sash Sightline	91mm
Mullion and Sash Sightline	148mm

Features

- Up to a 20-year guarantee*
- Internal and external flush casement. The sash closes into the frame, sitting in line with both the inside and outside of the window
- Chamfered bead
- Mechanically double crimped corners
- Easi-clean mechanism on side hung configurations that are between 400-700mm
- Yale Encloser locking mechanism
- Stainless steel friction stay hinges

Options and extras

- Casement, fixed, bay, gable and French window configurations available
- Accommodates double and triple glazing, with unit sizes of 28mm, 32mm or 44mm
- Georgian bar option
- Open out or fixed
- 95, 150, 180 and 225mm cill options available
- Available in over 150 different RAL colours
- Fixing straps
- 15 or 35mm frame extensions
- Restrictor hooks
- Egress hardware
- Aerogel insulation
- Door-to-window and window-to-window couplers available
- Black, white and colour-coded gaskets available
- 2500EA and 5000EA trickle vents available
- Marine finish option
- Colour matched handle options

*Guarantee based on location of where the windows will be installed.

Full terms and conditions can be found on the Origin website - origin-global.com/terms-and-conditions.

Origin's Popular Colours are available on our 'Your Lead Time, Not Ours' delivery promise, meaning your windows could be available in as little as 24-hours



Dark Silver Metallic (9007M)	Black Grey (7021M)		Jet Black (9005M)	
Slate Grey (7015M)	Dark Silver Metallic	(9007M)		
Hipca White (9910G)	Anthracite Grey (70	16M)		
	9910G in/ 7016M out			
DUAL	This popular dual colour option is available on a	Outside of t coloured wi then operat	ndows	

24-hour lead time 3-week lead time

Lead Times

Popular colour casement and French windows:	24-hours
Special colour casement and French windows:	3-weeks
Popular colour gable windows:	2-weeks
Special colour gables:	4-weeks
Aerogel windows:	4-weeks

Our 4 authentic woodgrain finishes are also available on 'Your Lead Time, Not Ours'



Natural Oak



Golden Oak





Walnut

Alternatively, any RAL colour can be selected on a 3-week lead time

For the full range, visit origin-global.com

Even the gasket colour and drainage cap colour is your choice...

		Window Colour	Recommended Gasket Colour	Recommended Drainage Cap Colour
A	Δ.	7015M	Slate Grey	Dark Grey
A	Δ.	9007M	Slate Grey	Cement
E	З.	7016M	Anthracite Grey	Dark Grey
(C.	9005M	Black	Black
(С.	7021M	Black	Dark Grey
[Э.	9910G	White	White
E	-	Natural Oak	Light Oak	Tan
E		Golden Oak	Light Oak	Oak
F		Walnut	Bronze	-
(G.	Mahogany	Chestnut Brown	-

A. Slate Grey	
B. Anthracite Grey	
C. Black	
D. White	
E. Light Oak	_
F. Bronze	
	-
G. Chestnut Brown	

Security

The OW-80 is PAS 24 certified.

Casement windows* have been impact tested up to 2633Pa and fixed windows tested to 3591Pa without failure or any sign of weakness in the crimps.

Hinges are made of ferritic stainless steel (to BS EN 10088-2 Grade, previously known as 304) for enhanced corrosion resistance. The hinges are tested to 50,000 cycles and feature a friction adjustment which has no metal to metal contact, ensuring minimum wear.

Hinge guards featuring patented anti-slip and lock technology are fitted as standard along the hinged side of the window.

The Yale Encloser lock is fitted to accurately align with the keeps. The cams are manufactured to be finely adjustable, if necessary.



*Testing was conducted on a 1525mm x 2641mm double top hung specimen.

Optional Extras

Restrictor Hooks

Variable restrictor hooks limit the sash opening to 70mm, but can be unhooked to allow the window to open fully.



Trickle Vents

Trickle vents have to meet the minimum air flow rates as defined in the British Building Regulations (see specifics below).

Can be fitted through the sash or through a 35mm frame extension.*

(See page 39 and page 40 for cross-section drawings)



Trickle vents

Additional Information

England and Wales:

Equivalent Air Rates of 2500EA and 5000 EA as required by Approved Document "F" 2006 for England and Wales.

Scotland and Northern Ireland: 2000, 3000, 4000, 6000 and 8000 free air models

and 8000 free air models available for use in Scotland and Northern Ireland.

Handles

Whether in a premium brushed metallic or one of Origin's industry-unique colour coordinated options, the handle has been designed to offer a faultless performance, mirroring that of the window itself.

Popular colour range

Metallic range



The handle is available in any RAL colour to match or contrast against the window.

Georgian Bars

The OW-80 is able to be specified with Georgian bars. The bars are placed on the glass after installation, and instantly offers a property more of a traditional style.

See page 78 for installation instructions.



Aerogel



What is Aerogel?

Aerogel is a synthetic, highly porous solid material derived from a silica dioxide gel in which the liquid has been extracted and replaced with air. The gel is critically heated and the liquid evaporated, leaving a bonded, cross-linked macromolecule framework.

The name Aerogel may be misleading at first, as aerogels are dry, rigid or elastic foam-like materials, but the name originates from the fact that aerogels are usually derived from wet gels, physically similar to that of edible jelly.

A brief history of Aerogel

Aerogel is believed to have been discovered in 1931 as a result of a bet between two chemists, Samuel Kistler and Charles Learned, over who could replace the liquid in jelly with gas without causing the remaining solid to shrink. It was Kistler that first succeeded.

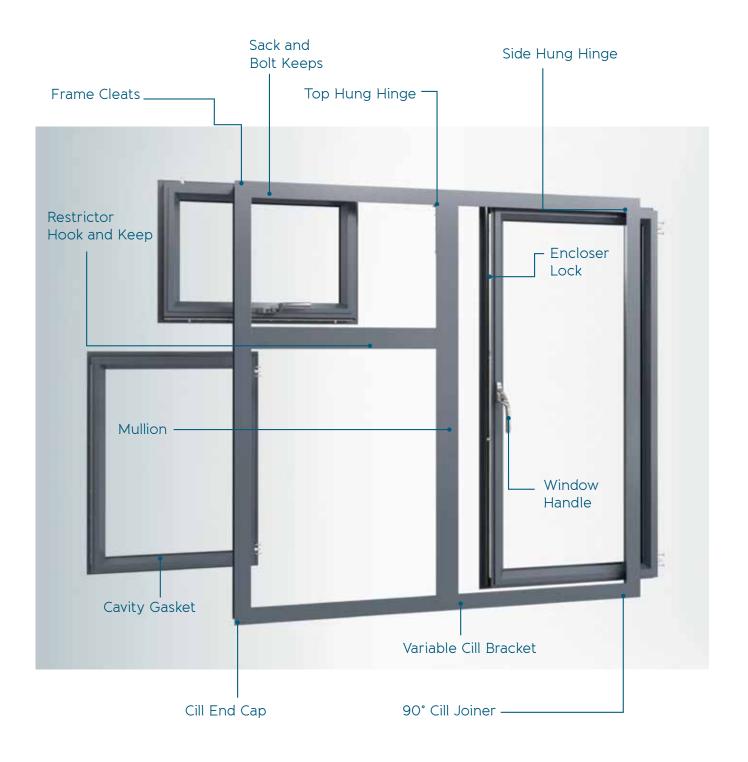
Since then, aerogels have been used in a wide range of applications from space exploration (Stardust launch and Mars exploration rovers) to the commercial manufacture of building insulation, clothing, tennis rackets, supercapacitors and thickening agents in cosmetics.

Due to the expensive processes involved in its production, commercial manufacture of it has only become viable since the dawn of the 21st century.

Why is Aerogel such a good insulator?

Aerogel can withstand very high temperatures, delivering 39 times more insulation than fibreglass. It is a fantastic insulator because it limits two of the three methods of heat transfer (convection, conduction and radiation). Firstly, they are excellent conductive insulators because they are composed of 99.8% gas (air) and gases are very poor at conducting heat. The remaining 0.02% of the aerogel is made of silica, which is incidentally also a poor conductor of heat. Secondly, the lattice structure of the solid is highly effective at minimising convection because air cannot circulate through it. While aerogels are poor radiative insulators (infrared radiation transfers heat) within an aluminium window frame, the aluminium blocks any infrared radiation.

Window Make-Up



Performance and Limitations

Thermal Ratings

Energy

u-Value

Rating From B to A++ (see page 18)

Up to 0.9 W/ Km2K (see page 15-17)

Weather Rating

Air Permeability

Resistance to Window Load

Water Tightness

Class 4 (600Pa)

Class B5 (2000Pa)

Class E1500 (1500Pa)

Performance Testing

PAS 24 Certified (Document Q Compliant)

BS EN 10088-2 Grade Certified

Accreditation

ISO 9001

Size and Weight Limitations

	Width	Height	Weight
	Maximum	Dimensions:	
Side Hung:	Max: 1000mm	Max: 1800mm	Max: 40kg*
	Maximum	Dimensions:	
Top Hung:	Max: 1500mm	Max: 1500mm	Max: 50kg*

Please note: the minimum and maximum sizes vary depending on the configuration. See page 21-28 for more information.

Building Regulation Requirements

New Build and Extensions	2.0W/m²K
Replacements	1.6W/m²K
Energy Rating	B and C or better

All windows must conform to these requirements.

*Max width and height refers to the individual sash limitations.

Thermal Efficiency

The OW-80 is fitted as standard with a 35mm polyamide thermal break that features interlocking barriers to minimise air flow through the system.

A bespoke cavity gasket is fitted into the internal chamber of the window between the sash and the frame (excl. the locking side) in order to further improve thermal efficiency.

The OW-80 is available with Aerogel as an optional upgrade. Aerogel is the most insulating material on the planet and allows the OW-80 to achieve an Energy Rating of A++ or up to a 0.9 u-Value.

For more information on Aerogel, refer back to page 11 or visit www.origin-global.com/aluminium-windows

See the Window Energy Rating Specification Sheet on page 18 for certified test results.



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Thermal Simulation Report

PRODUCT

Origin Window

SIM - SOFTWARE

Win Iso 2D Pro

GLASS CENTRE PANE U/VALUE

0.5 W/m2K (44mm triple glazing)

INSULATION

AEROGEL

Thermal Transmittance:

0.9 W/(m2K)



DW-80

Windows

Thermal Simulation Report

PRODUCT	Origin Window
SIM - SOFTWARE	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE	0.5 W/m2K (44mm triple glazing)
INSULATION	NONE
Thermal	Transmittance:
1.1 W/(m	2K)
	origin
Date: 05/11/2015	DOORS AND WINDOWS
All simulations strictl	y in accordance with the requirements of ISO 10077-2:2015
Email: info@origin-glob	pal.com Web: www.origin-global.com
Origin Frames Ltd, Sands 10	Industrial Estate, Hillbottom Road, High Wycombe, HPI2 4HS OFDL_3.97.1

Windows	
The Sim	ermal ulation Report
PRODUCT	Origin Window
SIM - SOFTWARE	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE	1.070 W/m2K (28mm double glazing)
INSULATION	NONE
Thermal	Transmittance:
1.5 W/(m	2K)
	orian
Date: 05/11/2015	DOORS AND WINDOWS
All simulations strictl	y in accordance with the requirements of ISO 10077-2:2015
Email: info@origin-glob Origin Frames Ltd, Sands 10	Web: www.origin-global.com Industrial Estate, Hillbottom Road, High Wycombe, HP12 4HS

 $\overline{OW-80}$

origin Window Energy Rating Spec Sheet

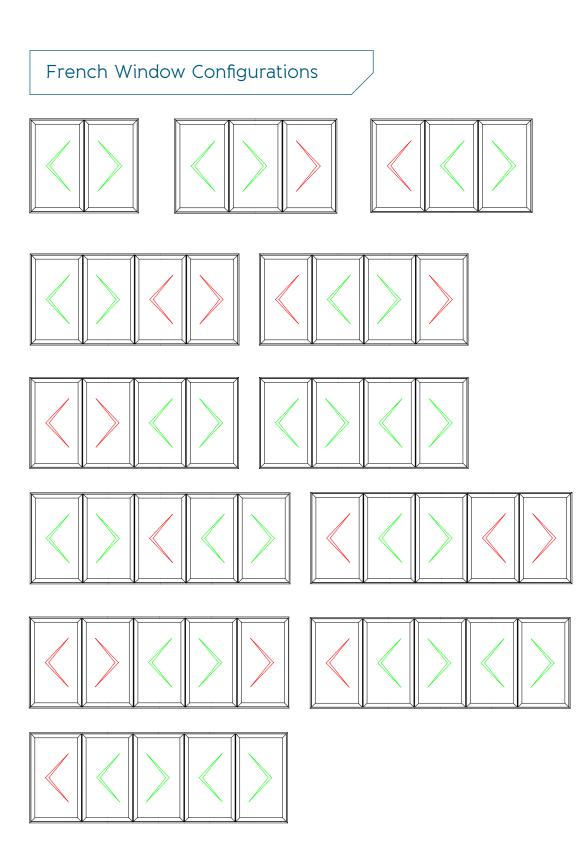
The following profiles, beads and glass specifications must be adhered to in order to achieve the associated energy rating.

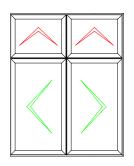
BFRC Energy Rating	B-9
Profile Spec	Origin Window Standard (frame:W66-67, Sash:W83-84)
Bead	28mm (ie. double glazed)
Glass Spec	4mm Diamant - 20mm 90% Argon - 4mm Planitherm Total +
Spacer Bar	20mm Swiss Ultimate
BFRC Energy Rating	A+6
Profile Spec	Origin Window Aerogel (frame:WA03-04, Sash: WA05-06)
Bead	28mm (ie. double glazed)
Glass Spec	4mm Diamant - 20mm 90% Argon - 4mm Planitherm Total +
Spacer Bar	20mm Swiss Ultimate
BFRC Energy Rating	A+9
Profile Spec	Origin Window Standard (frame:W66-67, Sash:W83-84)
Bead	44mm (ie. triple glazed)
Glass Spec	4mm Diamant - 2x16mm 90% Argon - 2x4mm Planitherm Total +
Spacer Bar	2 x 16mm Swiss Ultimate
Spacer Bar BFRC Energy Rating	-
	2 x 16mm Swiss Ultimate
BFRC Energy Rating	2 x 16mm Swiss Ultimate A++ Origin Window Aerogel
BFRC Energy Rating Profile Spec	2 x 16mm Swiss Ultimate A++ Origin Window Aerogel (frame:WA03-04, Sash: WA05-06)
BFRC Energy Rating Profile Spec Bead	2 x 16mm Swiss Ultimate A++ Origin Window Aerogel (frame:WA03-04, Sash: WA05-06) 44mm (ie. triple glazed)

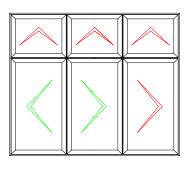
Popular Configurations

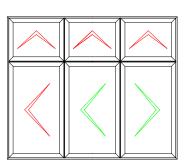


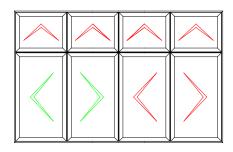
DW-8C

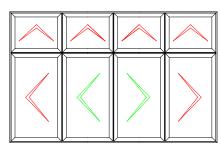


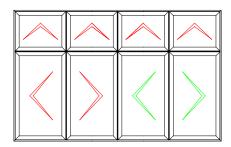


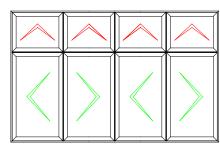


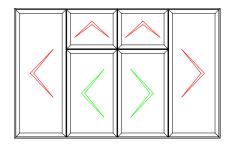














Egress Application

Approved Document B of the Building Regulations 2010 specifies the following provisions with regards to egress application:

Section 2.8 Emergency egress windows and external doors

Any window provided for emergency egress purposes and any external door provided for escape should comply with the following conditions:

- a. The window should have an unobstructed openable area that is at least 0.33m² and at least 450mm high and 450mm wide. In practice, this means the opening should be at least 450mm high by 750mm wide or 750mm high and 450mm wide (the route through the window may be at an angle rather than straight through). The bottom of the open-able area should be no more than 1100mm above the floor.
- b. The window or door should enable the person escaping to reach a place free from danger and free from fire. This is a matter for judgement in each case, but, in general, a courtyard or back garden from which there is no exit other than through other buildings would have to be at least as deep as the dwelling house is high to be acceptable.

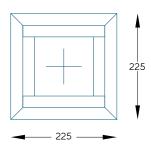
Note 1. Approved Document K protection from falling, collision and impact specifies a minimum guarding height of 800mm, except in the case of a window in a roof where the bottom of the opening may be 600mm above the floor.

Note 2. Locks (with or without removable keys) and stays may be fitted to egress windows, subject to the stay being fitted with a release catch, which may be child resistant.

Note 3. Windows should be designed such that they will remain in the open position without needing to be held by a person making their escape.

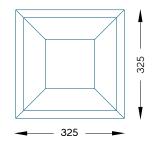
Size Guidelines

Minimum dimensions



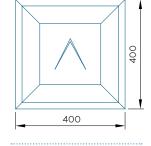


Min height: 225mm Min width: 225mm



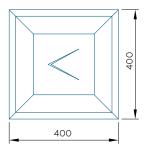
Dummy sash

Min height: 325mm Min width: 325mm



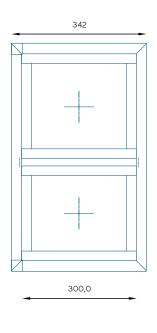
Top hung

Min height: 400mm Min width: 400mm



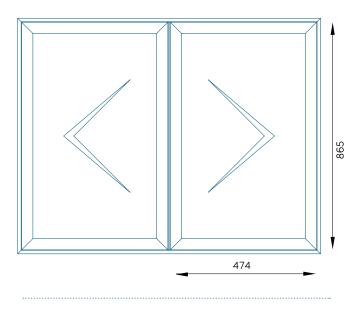
Side hung

Min height: 400mm Min width: 400mm



Transom/Mullion

Min length: 300mm



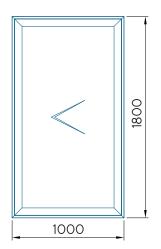
French window

Min sash height: 865mm Min sash width: 474mm

Minimum height will be greater with a cill.

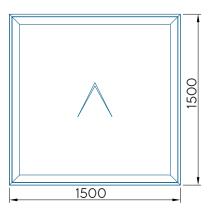
Minimum width will be greater with a frame extender.

Maximum sash dimensions



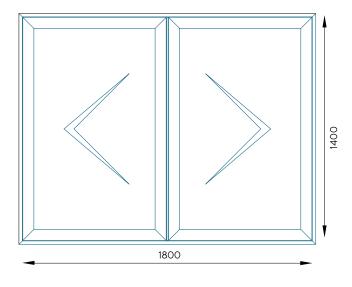
Side hung

Max height: 1800mm Max width: 1000mm Max sash weight: 40kg



Top hung

Max height: 1500mm Max width: 1500mm Max sash weight: 50kg

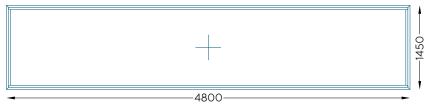


French window

Max height: 1400mm Max width: 1800mm

Fixed frame maximum dimensions

Example 1

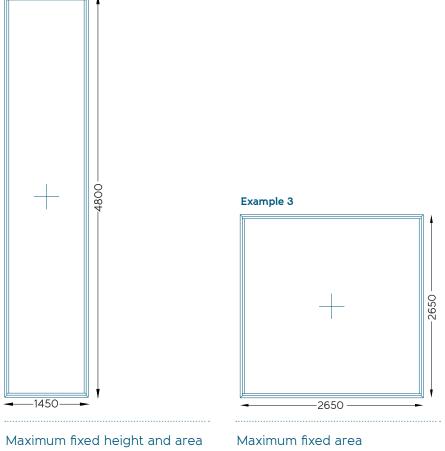


Maximum fixed width and area

Maximum area: 4800mm x 1450mm = approx 7m²

Maximum width: 4800mm



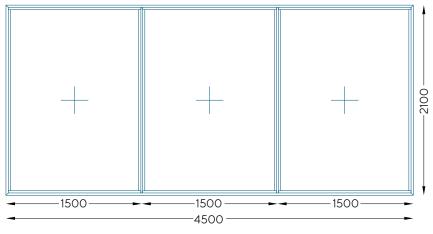


Maximum area: 4800mm x 1450mm = approx 7m² Maximum height: 4800mm Maximum fixed area Maximum area: 2650mm x 2650mm = approx 7m² Maximum height: 2650mm

Fixed windows over 4.8sqm cannot be coupled using Origin couplers.

Maximum mullion/ transom length

Example 1



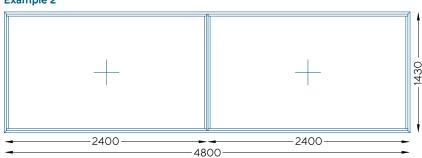
Maximum mullion length and glazed area next to a mullion/ transom

Maximum glazed area next to mullion/ transom: 1500mm x 2100mm = 3.15m² Maximum height: 2100mm

(Window width of 4500mm is under maximum of 4800mm)

Example 3

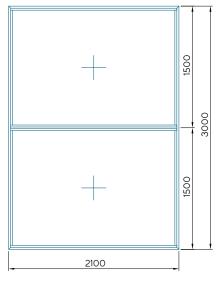




Maximum glazed area next to a mullion or transom

Maximum glazed area next to mullion/ transom: 2400mm x 1430mm = 3.15m² Maximum window width: 4800mm

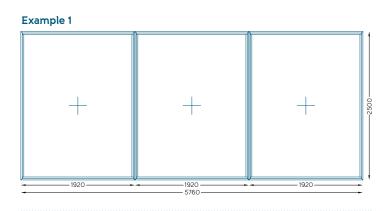
(Mullion is under maximum height of 2100mm)



Maximum transom

Transom under maximum width of 2100mm Maximum glazed area next to mullion/ transom: 2100mm x 1500mm = 3.15m²

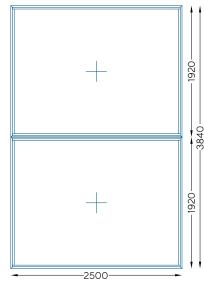
Maximum coupled length



Maximum coupled height with maximum individual glazed area

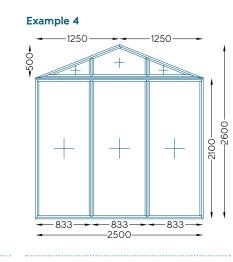
Maximum glazed area: 1920mm x 2500mm = 4.8m² (Overall width at 5760mm is fine as each frame is coupled) Maximum coupled height: 2500mm

Example 3



Maximum coupled width

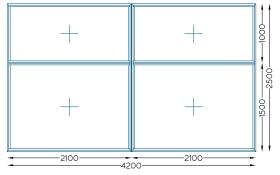
Maximum glazed area: 2500mm x 1920mm = 4.8m² Maximum coupled length: 2500mm



Maximum coupled gable width, minimum gable corner angle and maximum mullion

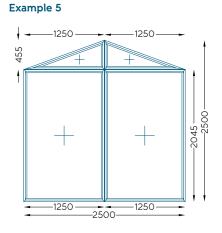
Maximum coupled length: 2500mm Maximum mullion length: 2100mm Tightest gable corner angle: 20°

Example 2



Maximum coupled height with a maximum transom

Maximum glazed area next to mullion/ transom: 2100mm x 1500mm = 3.15m² Maximum coupled height: 2500mm Maximum transom length: 2100mm



Maximum coupled width and height with tightest gable corner angle

Maximum coupled width and height: 2500mm

Tightest gable corner angle: 20°

Size Guidelines

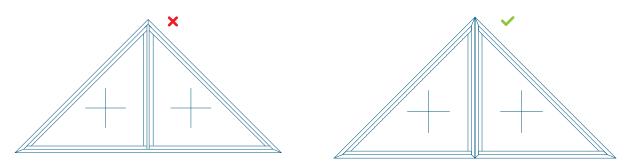
Gables

Minimum gable angle: 20°

Angles less than 90° are available with 28mm units only. 44mm units require an up-stand and cannot be manufactured with angles less than 90°.

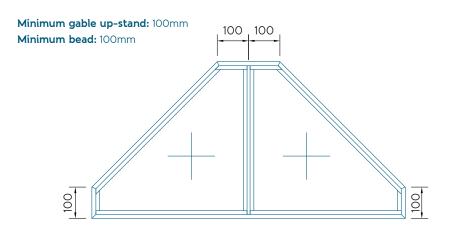
Gables mullion restrictions

Mullions cannot be joined to another joint or apex in the frame:



In this instance, the gable must be made out of two parts and coupled together.

Minimum gable up-stand

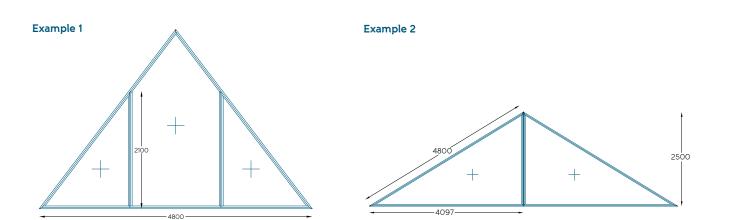


The minimum up-stand on a gable is 100mm.

Similarly, in the diagram above, if a mullion splits a small section of frame, there must be at least 100mm of profile either side of the mullion.

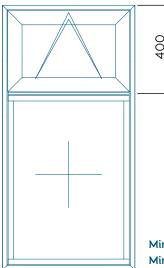
Maximum gable size

Maximum mullion length: 2100mm Maximum profile length: 4800mm Maximum coupled length: 2500mm



Technical Drawings

Minimum transom drop

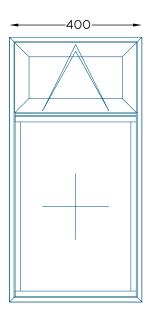


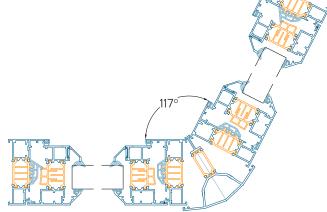
Minimum transom drop with 15mm frame extension: 415mm Minimum transom drop with 35mm frame extension: 435mm

Minimum sash width with trickle vent

Bay window tightest angle

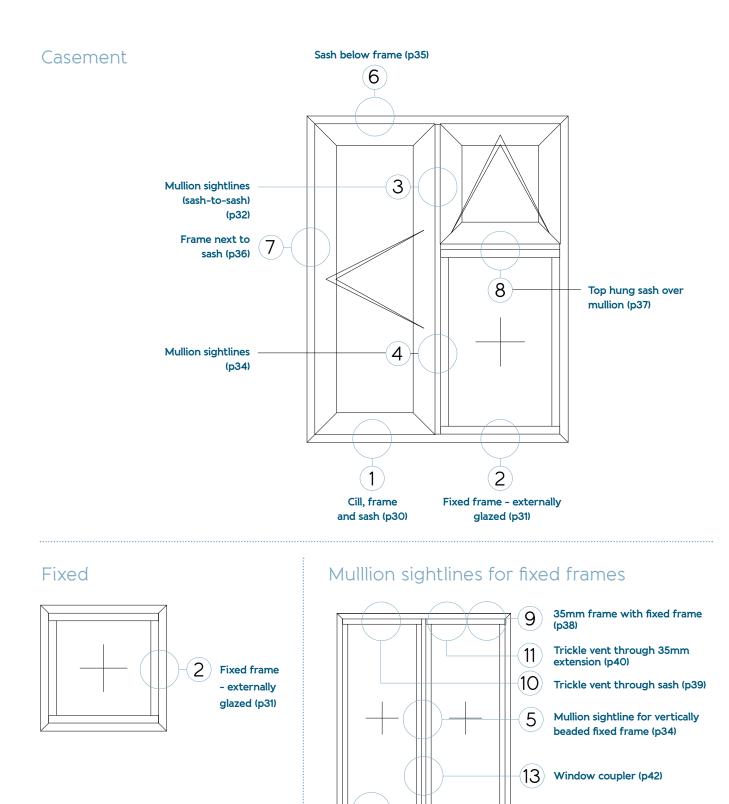
Tightest bay angle: 117°





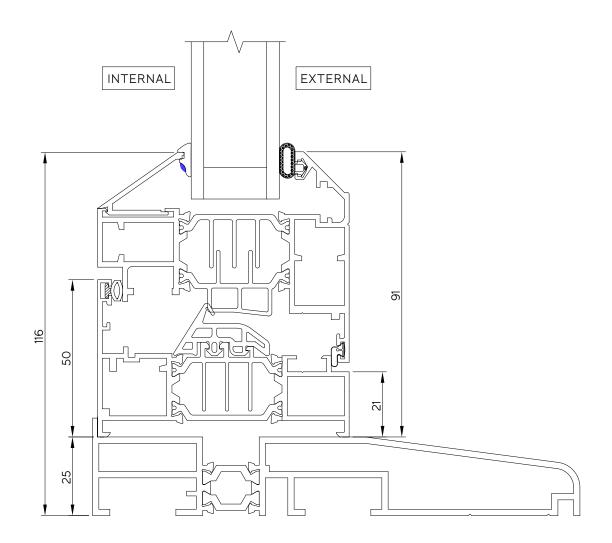
The minimum width for a 2500EA trickle vent to go through a 35mm add-on is 400mm.*

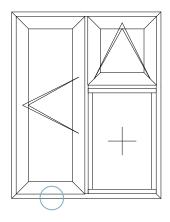
*Minimum airflow requirements to be adhered to as per building regulations.

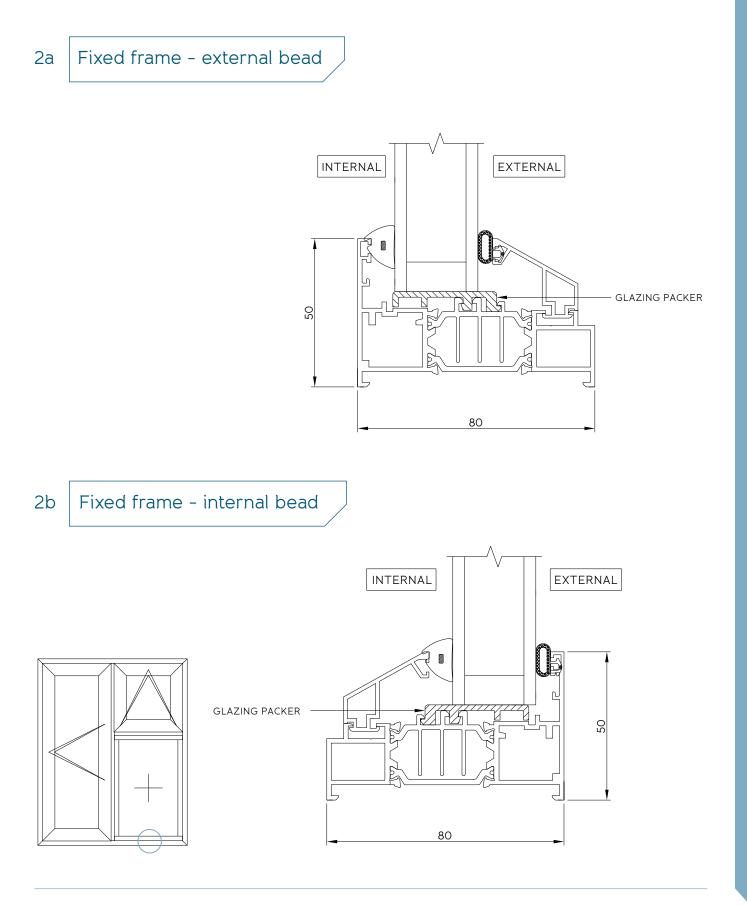


 $\left(\mathbf{9}_{b}
ight)$ 15mm frame with fixed frame (p38)

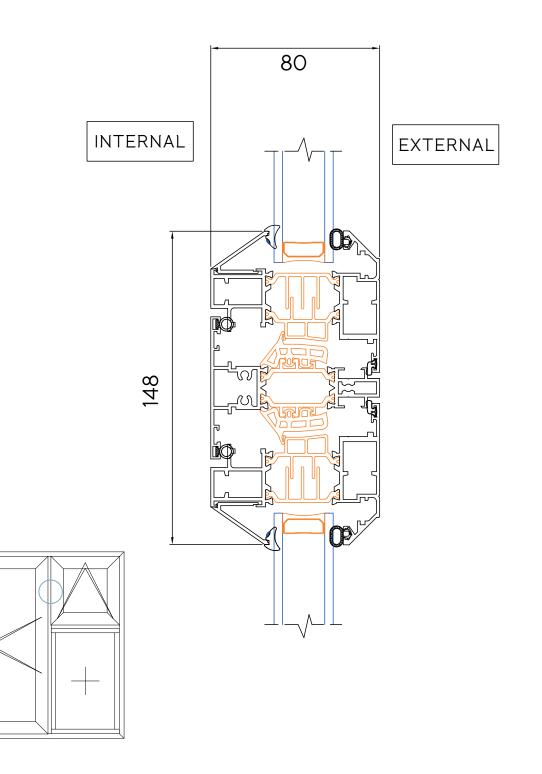
1 Cill, frame and sash



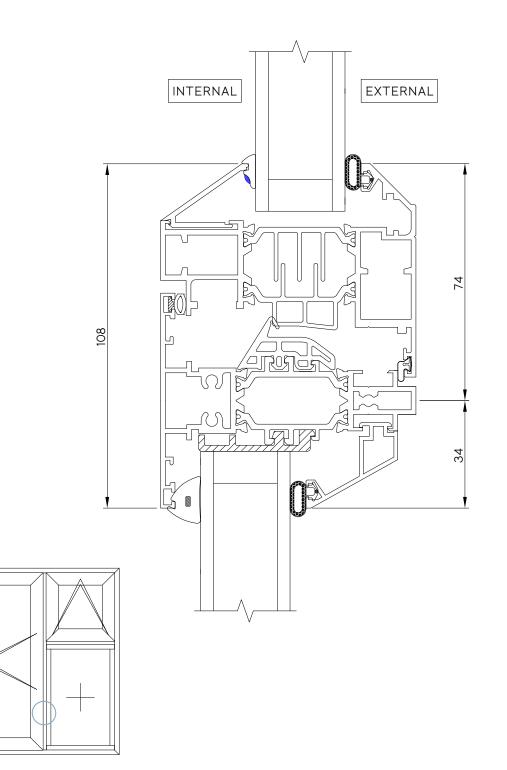




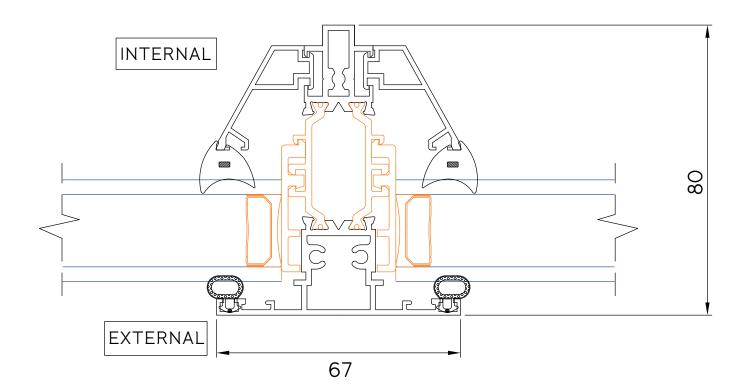
3 Mullion sightlines - sash-to-sash

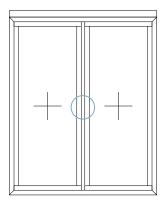


4 Mullion sightlines - sash-to-fixed

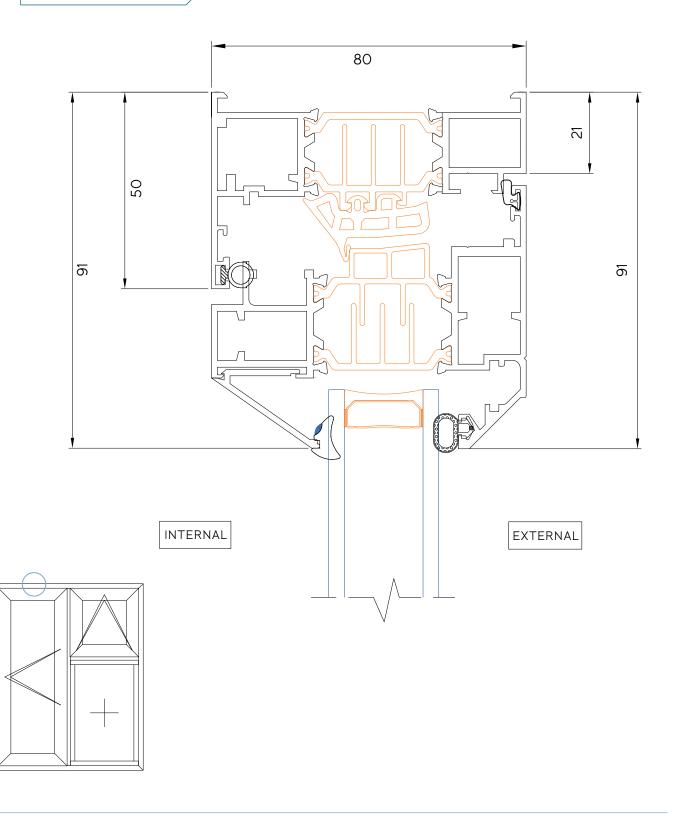






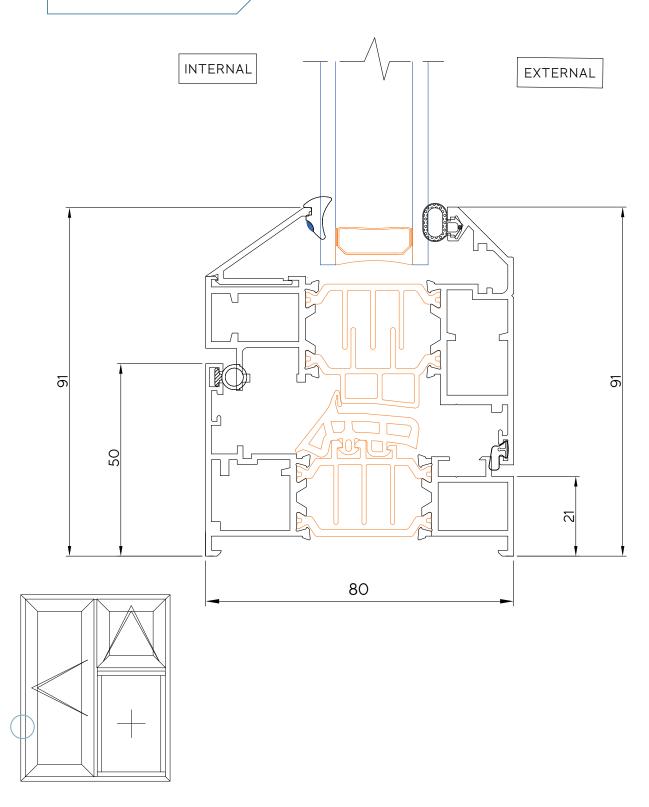


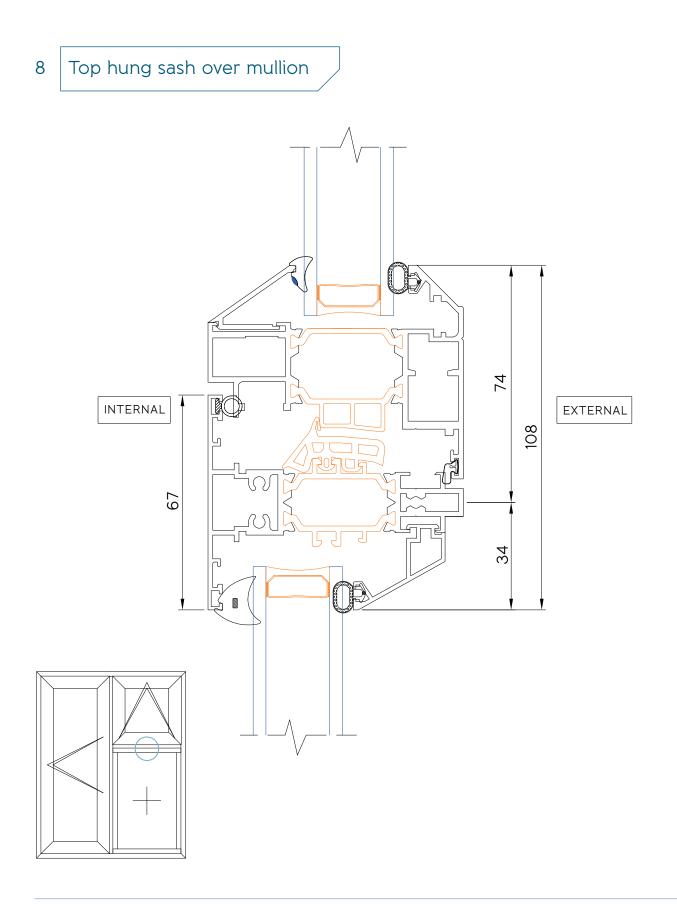
6 Sash below frame



OW-8

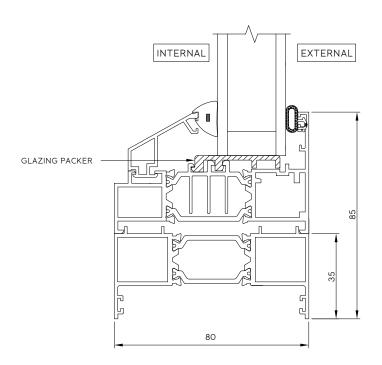
7 Frame next to sash

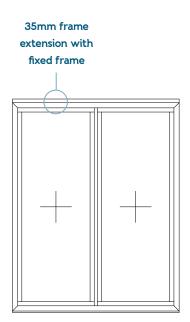




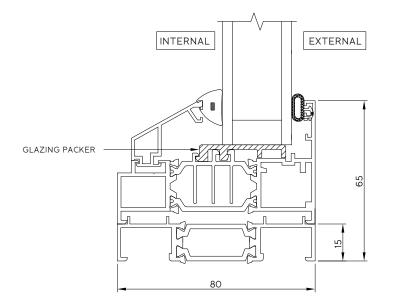
JW-8(

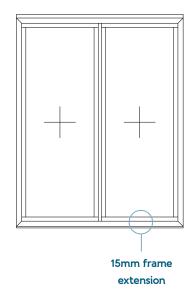




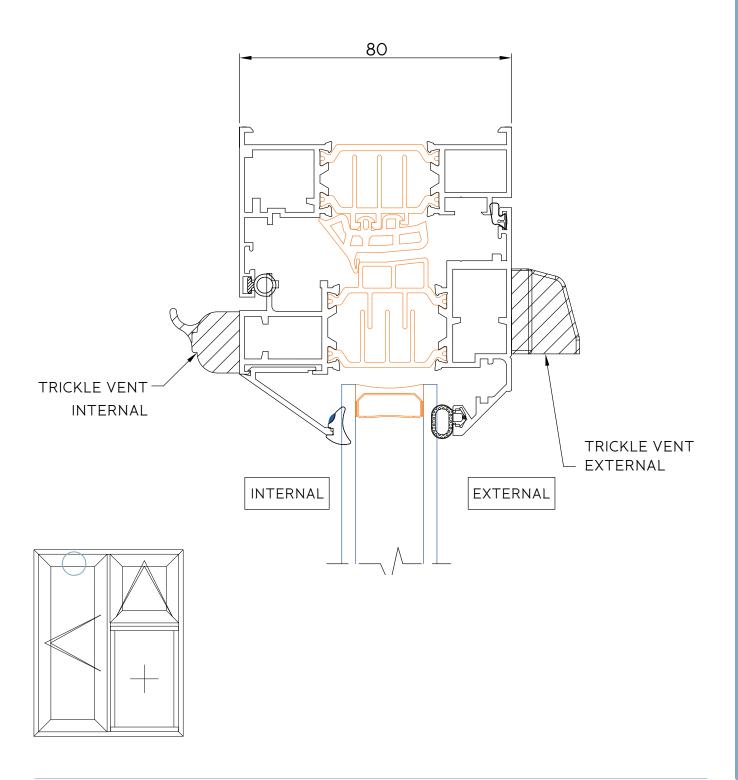


9b 15mm frame extension

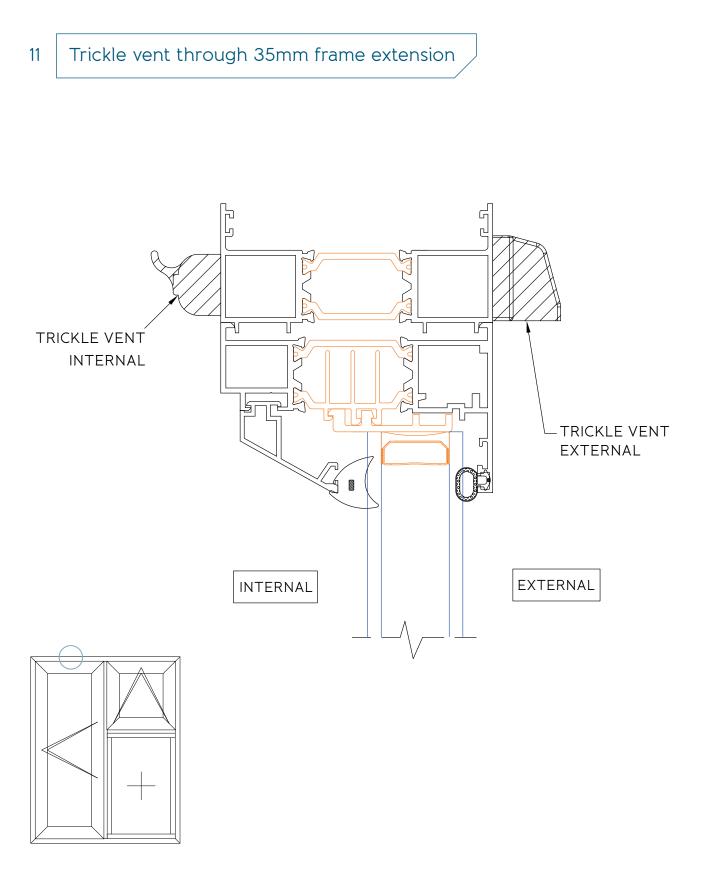








OW-8(

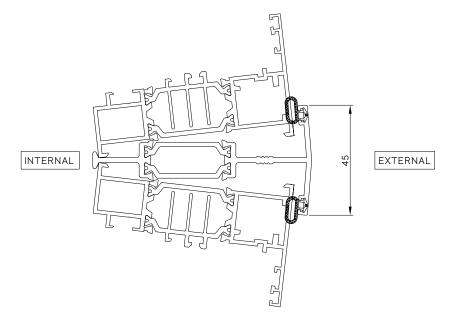


12 Variable bay mullion

Internal angles: 117° - 138°

INTERNAL INTERNAL EXTERNAL

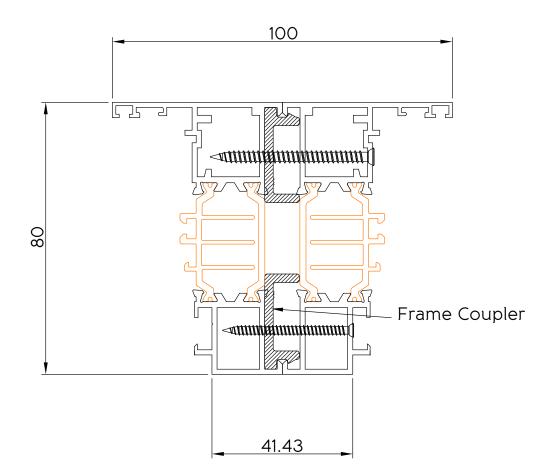
Internal angles: 159° - 175°

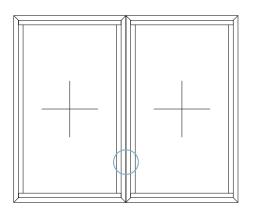


Internal angles: 138° - 159°

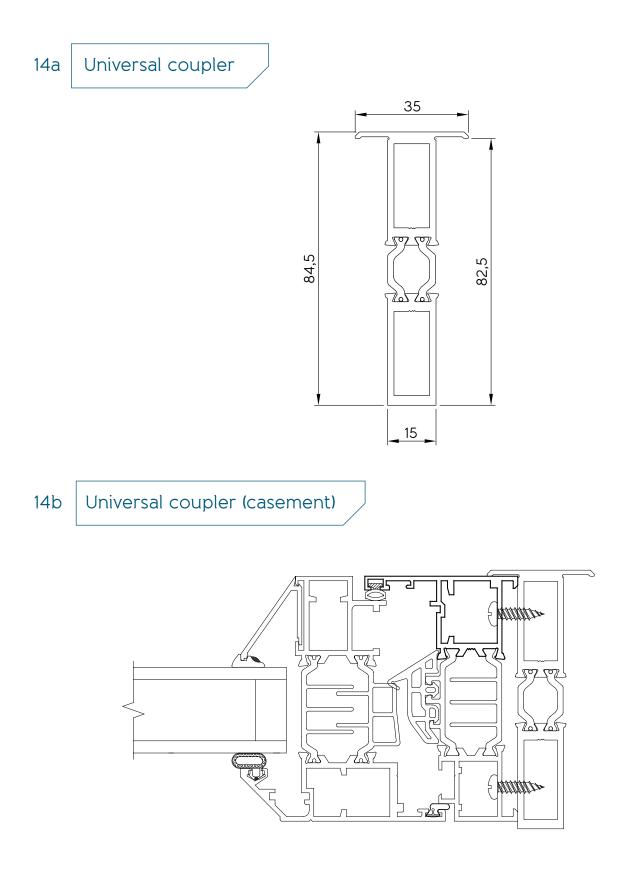
DW-80

13 Window coupler

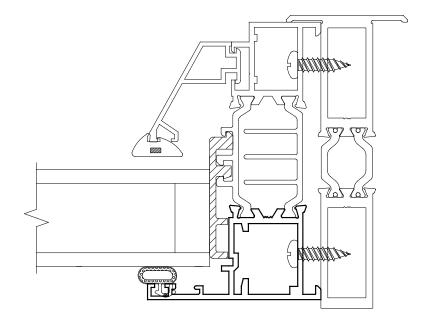




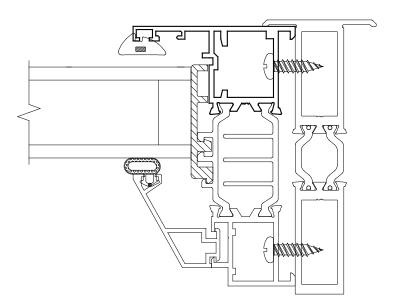
The Universal coupler can be used to couple window-to-window only. It can be used across both Origin Window systems.



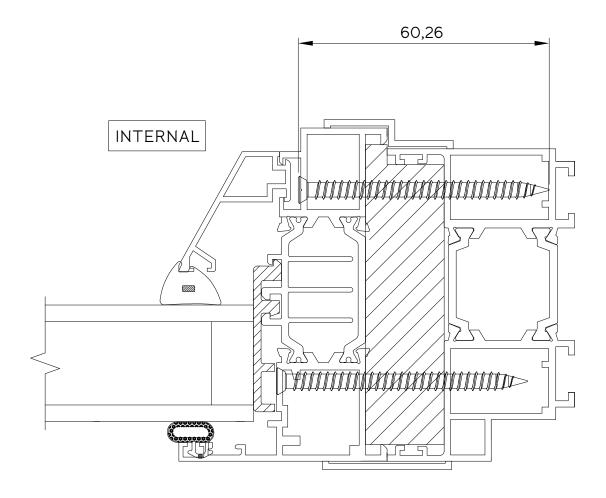
14c Universal coupler (fixed, internally glazed)



14d Universal coupler (fixed, externally glazed)

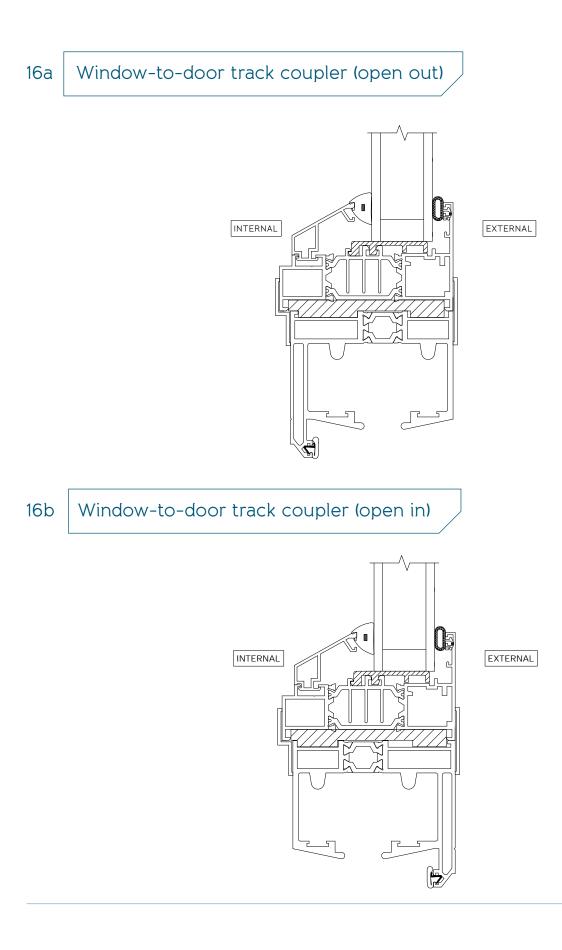




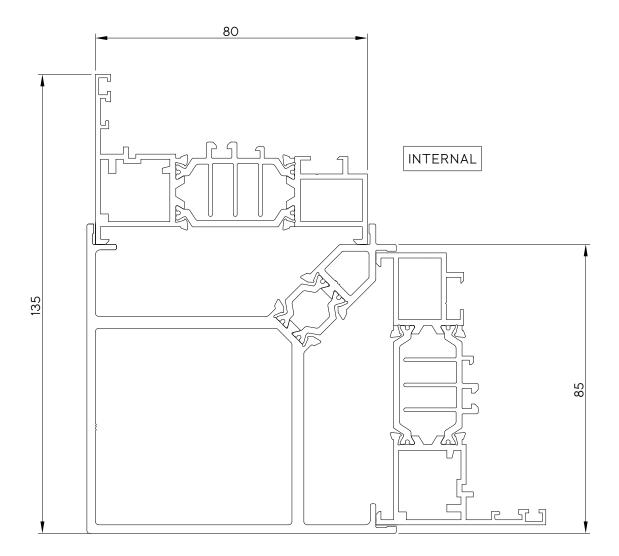


EXTERNAL

JW-80

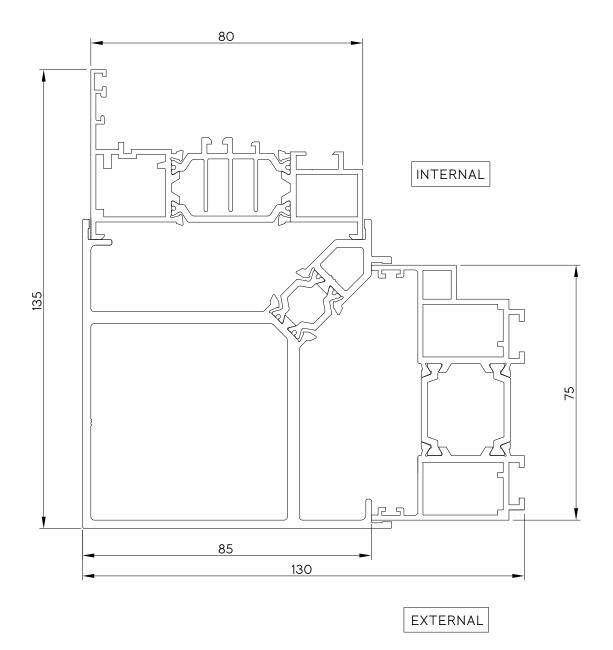




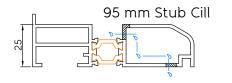


EXTERNAL

18 Window-to-door corner post

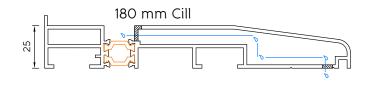


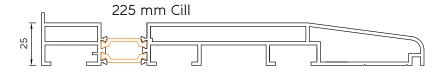
Cills, bead and trim 19



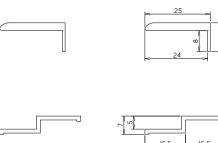
155 mm Cill 25

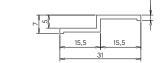
The 95mm stub cill can only be prepared with concealed drainage if the water can drain away towards the outside of the reveal. There must be a gap of at least 20mm between the drainage hole and the substrate in order to ensure the water can drain effectively. The substrate must be sloped to ensure the water doesn't drain back into the building. It is the installers responsibility to ensure the drainage outlets are clear and free to drain water away from the substrate.





Trims





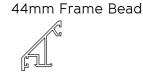


28mm Sash Bead



28mm Frame Bead

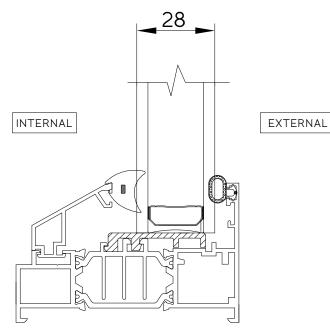
44mm Sash Bead

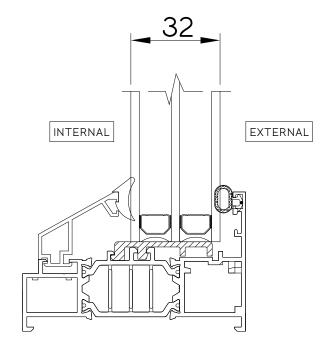


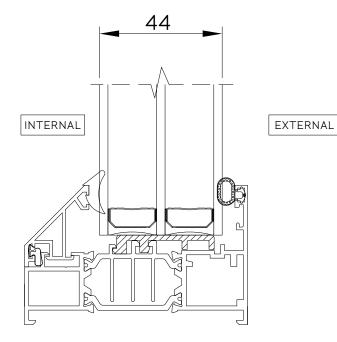
Technical Drawings

Glazing options

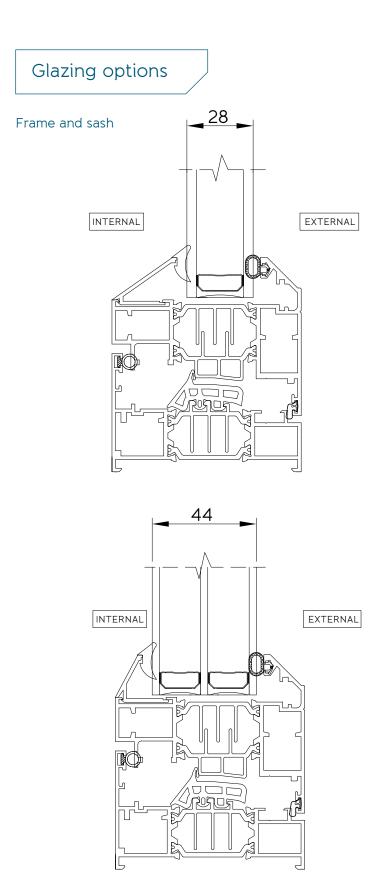
Fixed frame

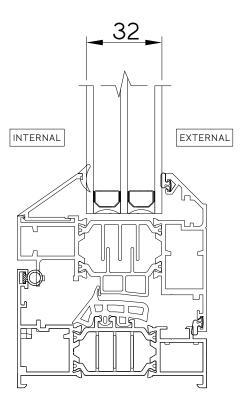




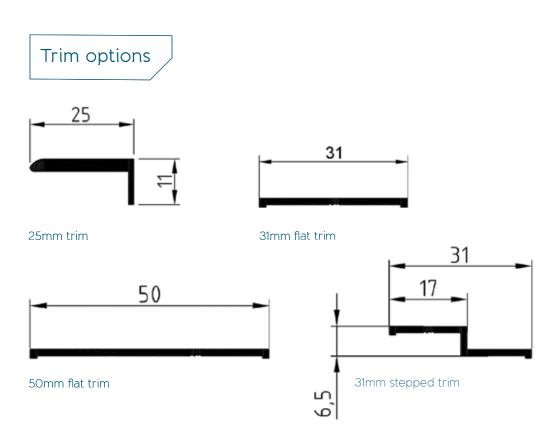


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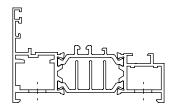


Technical Drawings



Mechanical Cleat

SCALE 1:5





Gaskets



Frame gasket (internally fitted)

Black



QL4636

Sash gasket (externally fitted)

Black



Cavity gasket

Black

W474



Frame wedge 44mm

(internally fitted)

B2018

Glazing rebate (externally fitted)

Black



W473P

Frame wedge 28mm (internally fitted)

Black, white, colour-coded



W488

Sash wedge 28/44mm (internally fitted)

Black, white, colour-coded

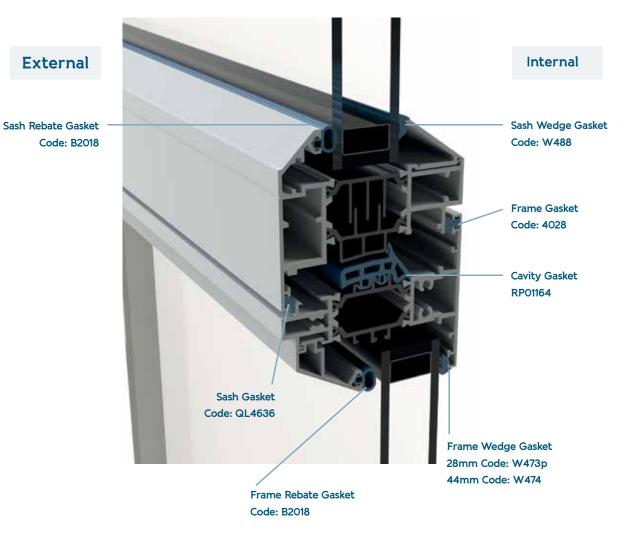


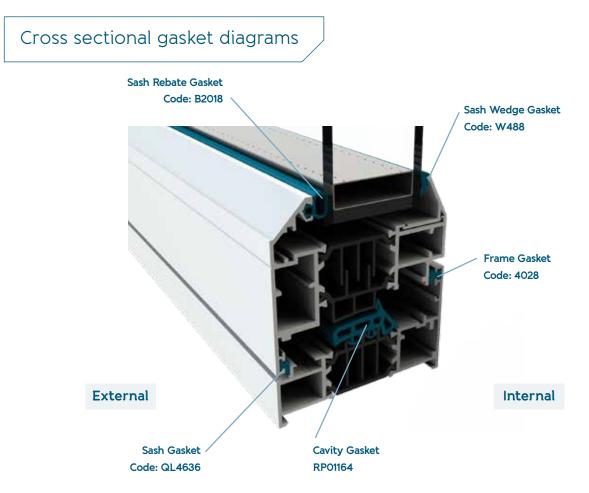
Black, white, colour-coded



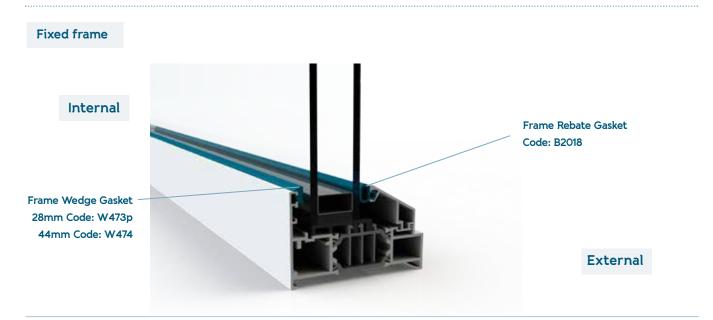


The colour-coded gasket option includes the following colours: Slate grey, anthracite grey, light grey, white, light oak, bronze and chestnut brown. Cross sectional gasket diagram



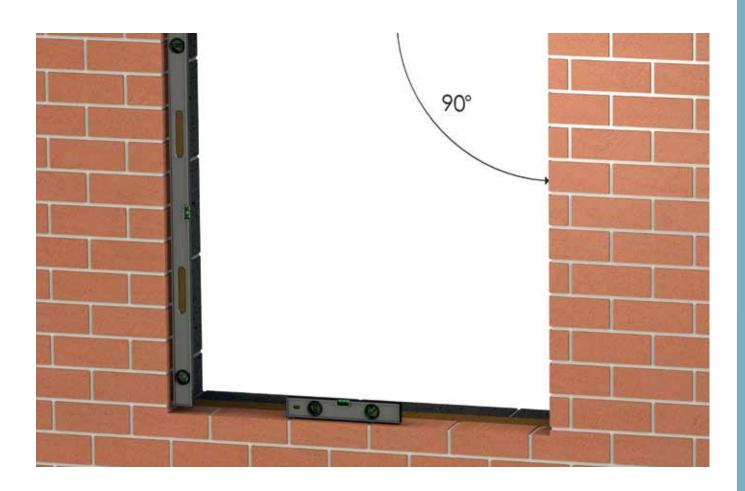


The cavity gasket not only provides an internal seal for the window, but more importantly, is a critical component for reducing the flow of air between the frame and the sash. This improves the thermal performance of the window.



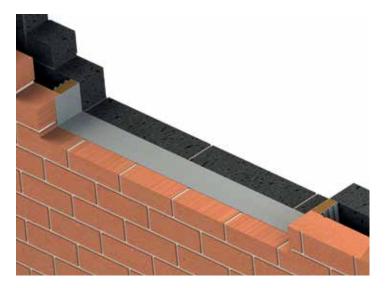
Installation Guide

Apertures



Open cavities discovered between the inner and outer skins of brick or block work should be bridged or closed with an insulation material in accordance with the local building authority.

Windows should be installed in the aperture without twisting, racking or distorting.



1. Frame Fixing





Measure the opening, checking it fits with all measurements on your Origin paperwork.

1.1. Place the correct frame packers spaced at a maximum of 500mm apart along the length of the opening to create a level, well supported platform for the track/ cill to sit. (Fig.1)

1. Frame Fixing (continued)



: FIG 2

- **1.2.** Using an appropriate silicone sealant, fill the ends of the cill section and install the end caps. (Fig.2)
- 1.3. Place the cill on the pre-prepared frame packers and re-check for level. Adjust if necessary. (Fig.2)
- **1.4.** Using a silicone sealant, seal the drainage channels adjacent to the brickwork. (Fig.2)
- **1.5.** Run a bead of sealant along the up-stand of the cill. (Fig.2)





If using fixing straps, please skip to 1.7.

- **1.6.** Place the window on the cill and secure into position. Wherever practical, all four corners of the frame should be secured as follows:
 - Frame fixing should be between 100mm to 150mm from the external corners.
 - Fixings should be at no greater than 600mm apart and there should be the minimum of two fixings on each side. On windows over 1800mm wide, central head and cill fixings should be provided. (Fig.3)

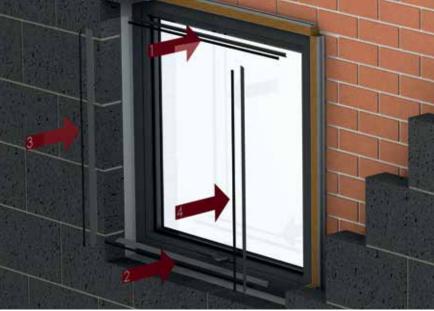
Please move to 2.1.

1.7. Secure the fixing strap into the rebate of the window with the screws provided. All four corners of the frame should be secured wherever practical.

2. Glazing









2.1. All insulated glass units should be examined for damages and defects before installation. (Fig.4)

2.2. Close the window and fully engage the lock. (Fig.4)

2.3. Remove the 4 glazing beads. (Fig.4)

2.4. Place the required packers in the bottom of the glazing chamber spaced approximately 50mm in from each corner at 90° to the window. (Fig.4)

2.5. Install the glass on the packers, taking care not to pinch the gasket on the outside. (Fig.4)

2.6. For safety, always ensure the top bead is installed first, followed by the bottom and then the side beads. (Fig.5)

2.7. Cut the glazing wedge gasket to length and insert between the glass unit and the glazing bead. (Fig.5)

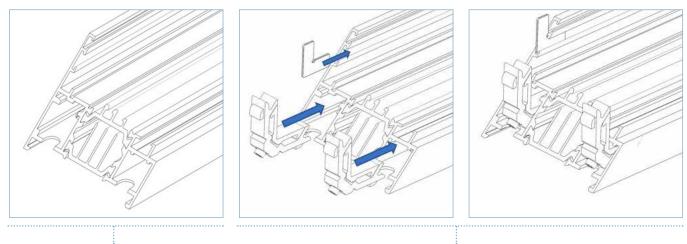




- **3.1.** Wherever practical, gaps around the window should be foam filled to stop air flow around the window and the surrounding aperture. (Fig.6)
- **3.2.** If required, use trims to bridge the gap between the window and the aperture. All trim should be compatible with the material of the frame and should be colour matched where specified. (Fig.6)
- **3.3.** The sealant should be applied against a firm backing so that it is forced against the sides of the joint during application. The best practice is to have insulating foam fill inserted wherever practical. (Fig.6)

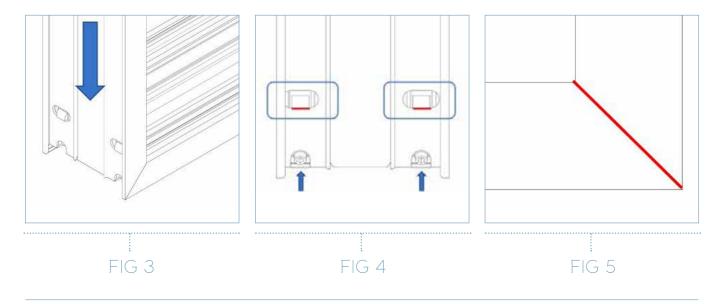
Mechanical cleat installation guide...

- **1.** Ensure all mating faces of profile are sealed with silicone (FIG 1)
- 2. Insert the mechanical cleats and chevrons provided (FIG 2)
- 3. Push profile onto cleats and chevrons
- 4. Tighten cleats with an allen key and ensure barb is against cut out as shown (FIG 3)
- 5. As cleats are tightened, ensure that the mitres are aligned and no gaps are visible (FIG 4)



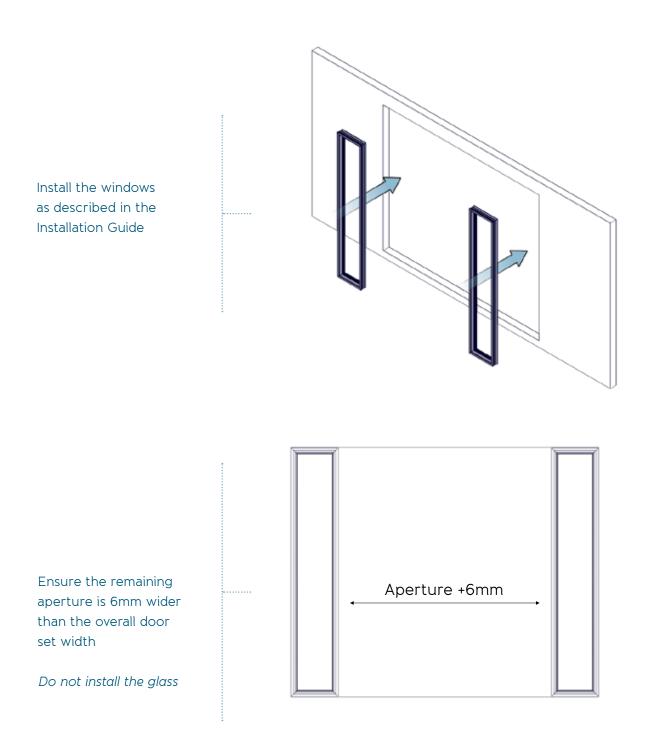


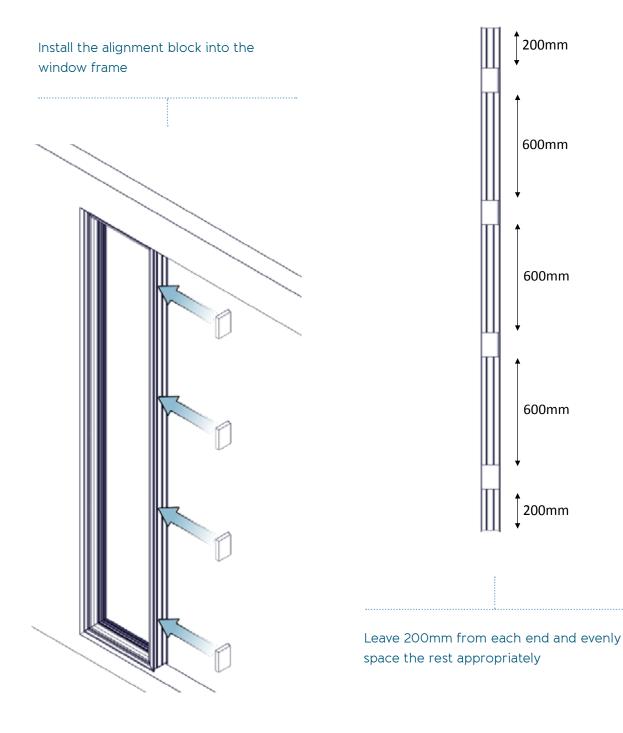


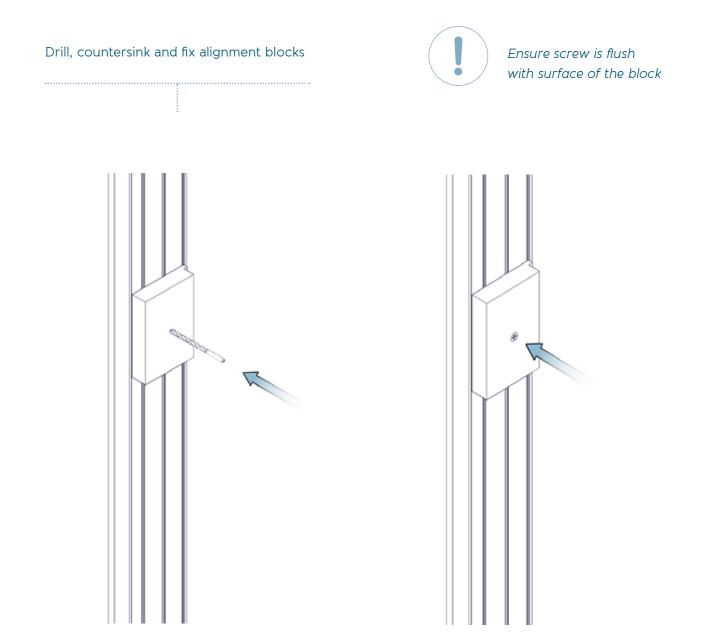


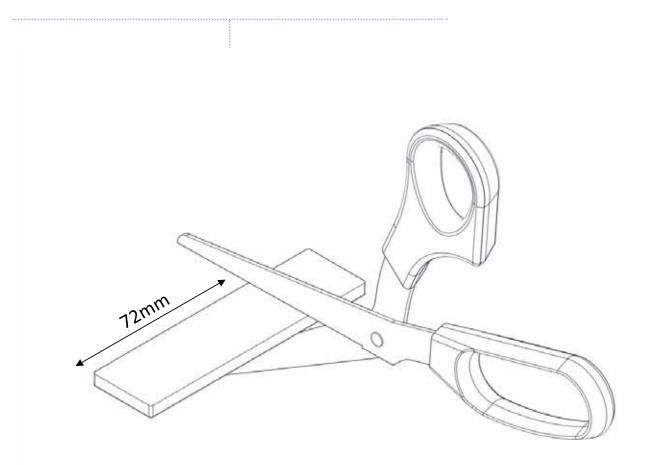
JW-8(

Window-to-jamb Coupler Installation Guide

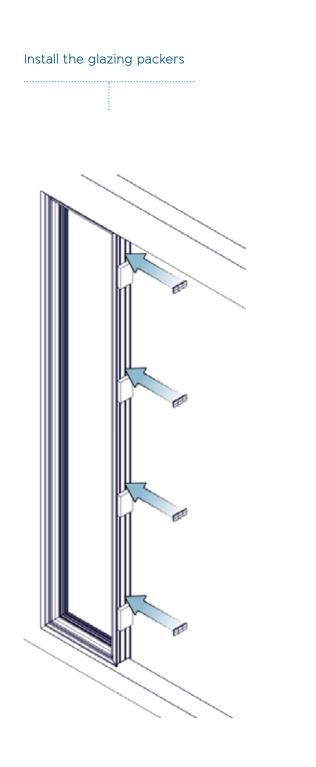






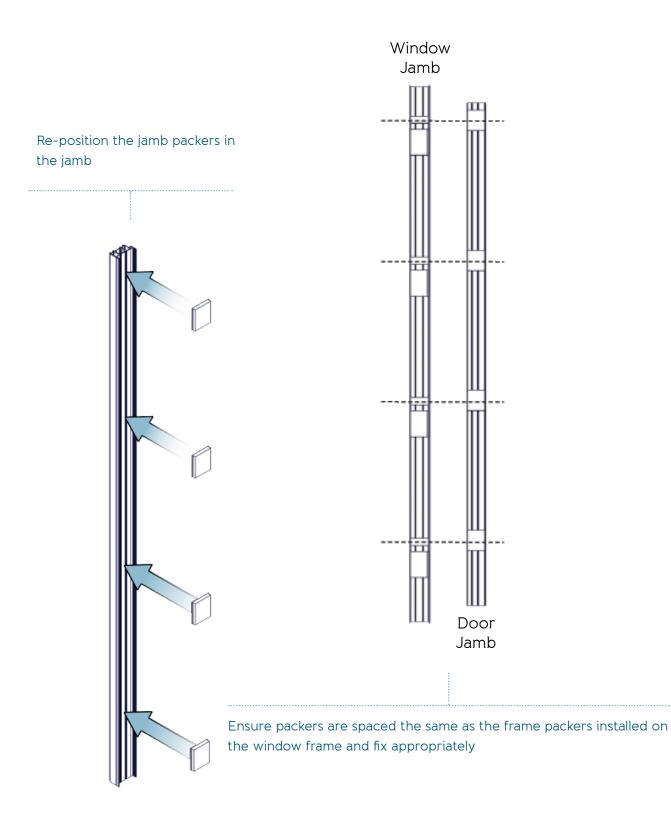


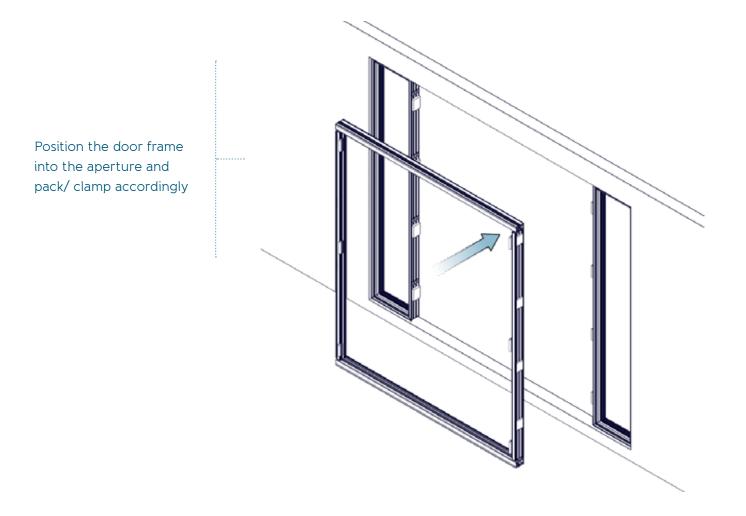
Cut down 5mm frame packers to 72mm (one for each jamb packer)





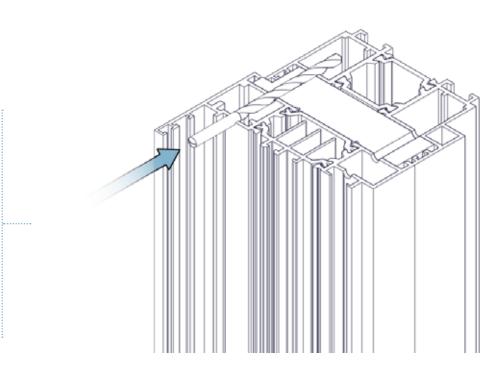
Ensure packers are positioned next to the alignment blocks





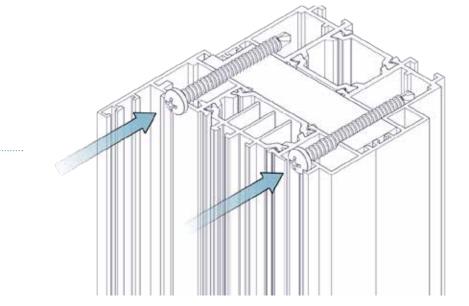


Do not drill into gasket chamber

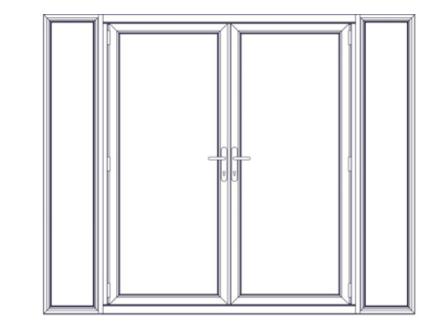


Pre-drill the frame with a 3mm drill bit as shown for every jamb packer used

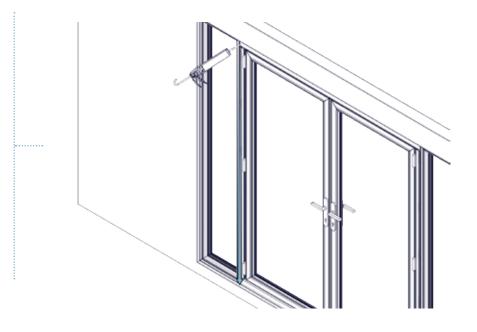
Using supplied screws, fix the window frame to the door jamb through the jamb packers

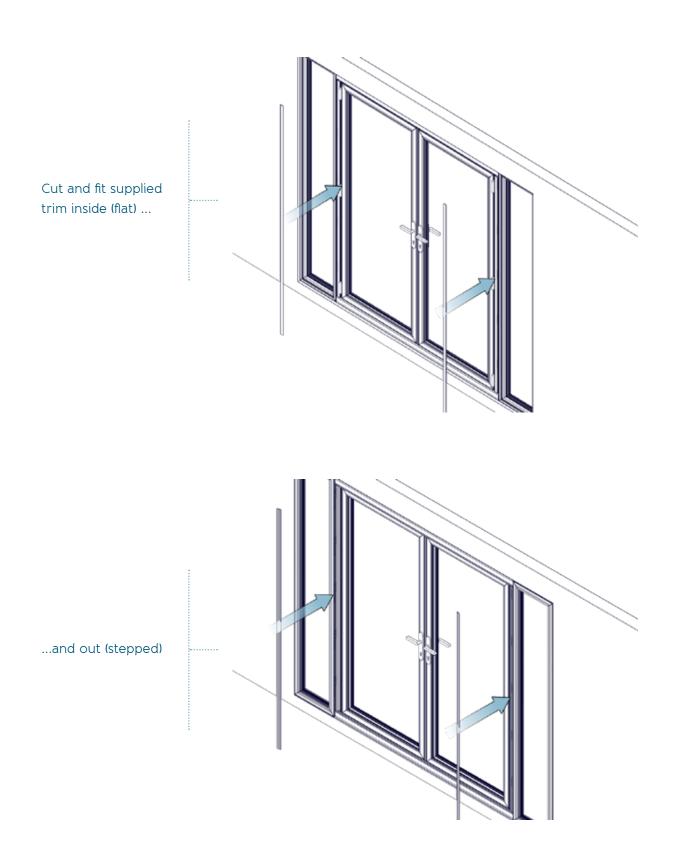


Install door sash, windows and glass as described in the Installation Guide

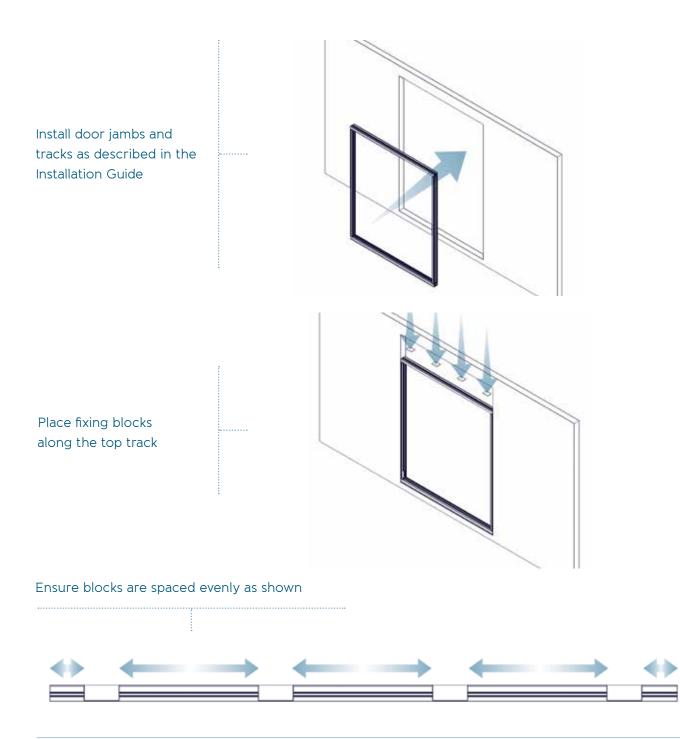


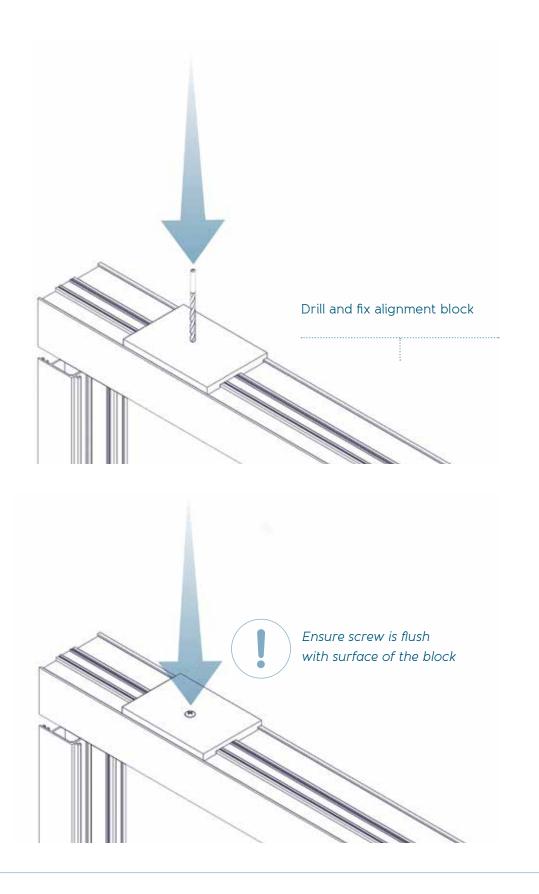
Seal the joint, between the window and door frame, making sure the joint is completely weatherproof





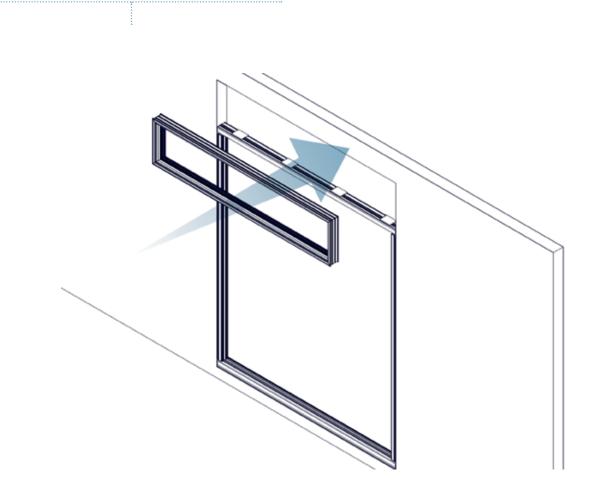
Window-to-track Coupler Installation Guide





Window-to-track Coupler Installation Guide

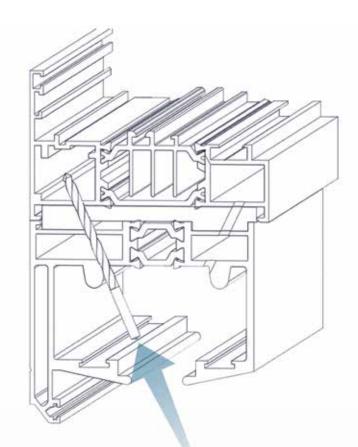
Install window above the door using clamps/ windbags to secure into position

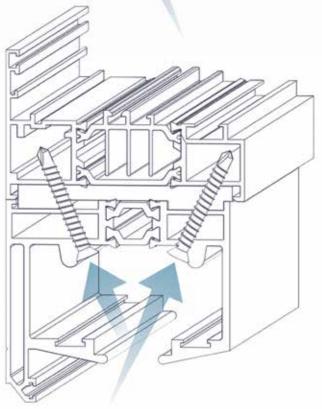


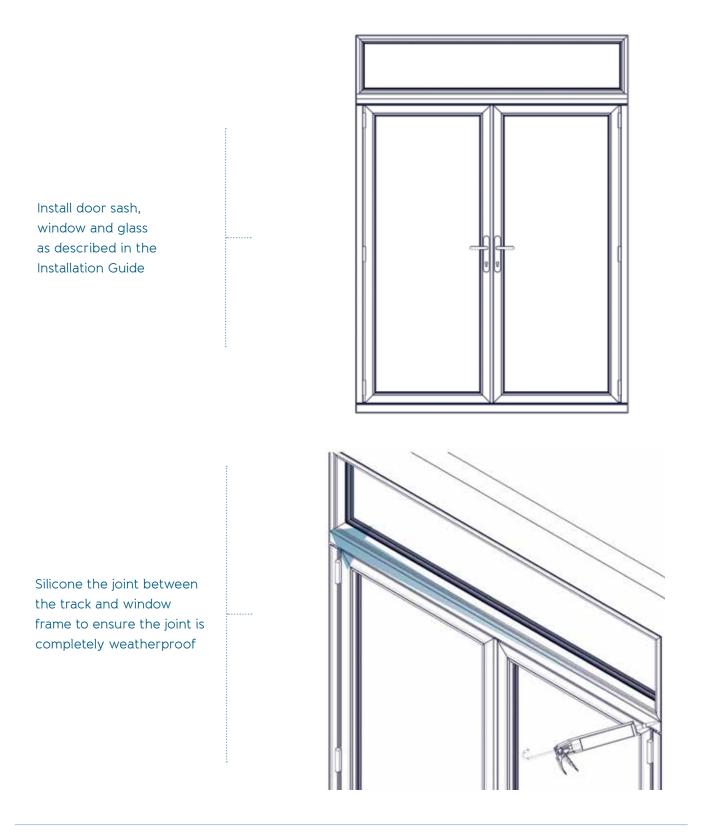
Pre-drill the frame with a 3mm long series drill bit as shown for every alignment block used

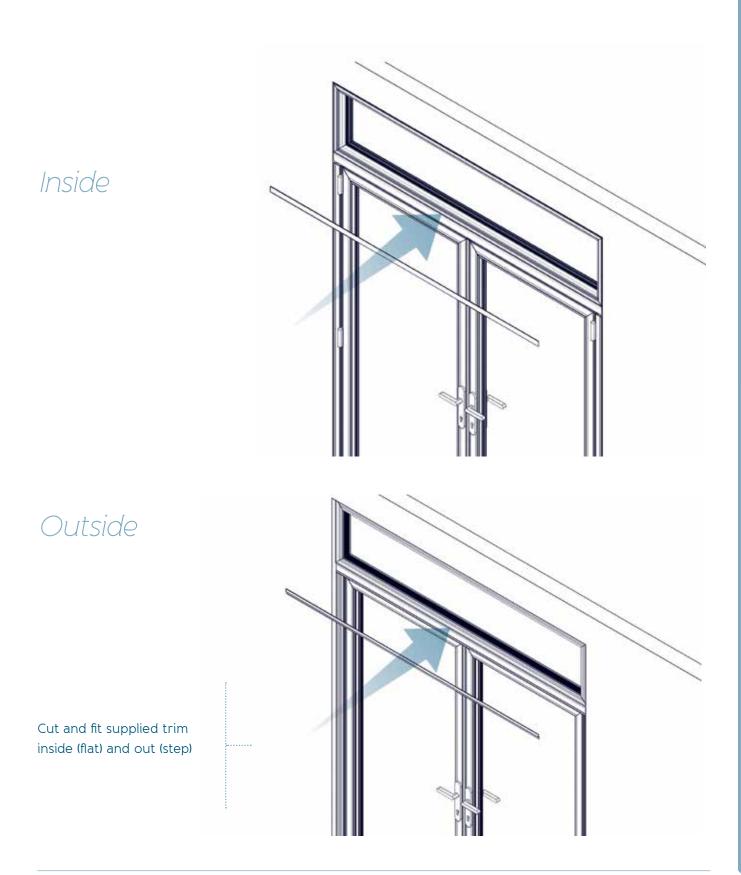
> Do not drill into the window cavity

Using screws supplied, fix the track to the window frame



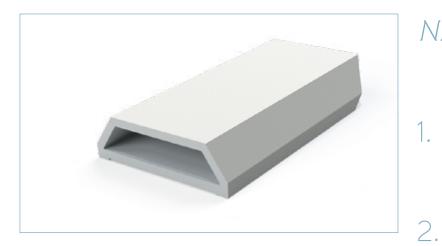


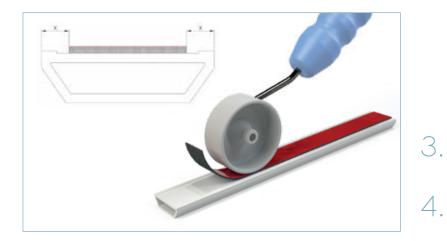


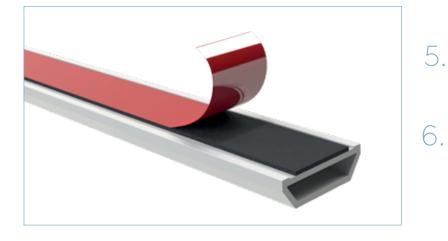


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Georgian Bar Installation Guide







NB: The Georgian bars are supplied as 10m bar lengths (2x5m) with 13m tape. The tape will need to be bonded to the lengths of the bar.

> Once glass is fully installed, ensure the glass is clean. It is recommended to use a saline solution or glass primer.

Measure the sash, and using the approximate deductions from the offset table, cut the bars to length with the appropriate angles.

Note: All deductions are oversize to reduce wastage. Bars will need to be trimmed to ensure a seamless joint.

Clean the underside of the Georgian bar using a saline solution or primer.

Place tape on the underside of the Georgian bar, ensuring it remains central along the bar. It is recommended that a roller is used for this to ensure strongest bond.

Before removing red backing, offer the bars up to the glass and check for size, trim as required.

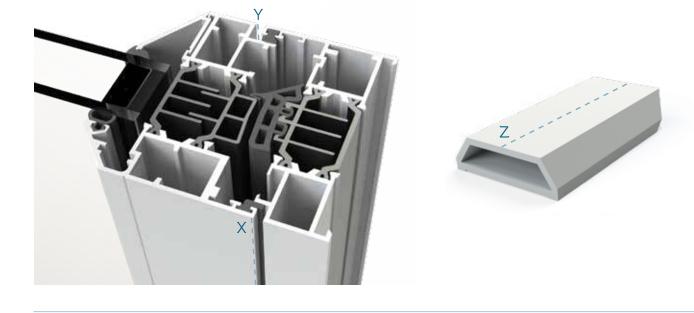
Remove red backing of the tape and press bar firmly onto the glass.

Note: deductions are all approximate and are given as a guideline. Final trimming should ensure a snug fit.

Georgian Bar Window Offsets

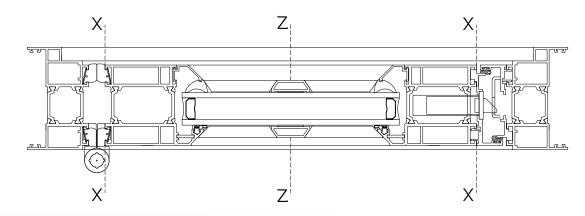
45° Crossover Cut Angle Approximate Deduction Bar to Bar 35° Z to Z - 25mm Popato to Par 45° + 25° X to Z - 81mm	35°	Full lengths Sash Rebate to Sash Rebate 28mm Bead 44mm Bead	Cut Angle 45° 35° 45°	Approximate Deduction X to X - 134mm X to X - 138mm X to X - 135mm
Number Number Number Number 28mm Bead to Bar 45° Y to Z - 150mm 44mm Bead to Bar 45° + 35° Y to Z - 149mm (X to Y dimension = 30mm) (X to Y dimension = 30mm)	45°	Bar to Bar Rebate to Bar 28mm Bead to Bar	35° 45° + 35° 45°	Z to Z - 25mm X to Z - 81mm Y to Z - 150mm Y to Z - 149mm

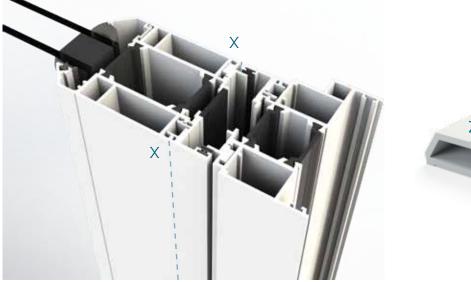
Y Z Y X Z X

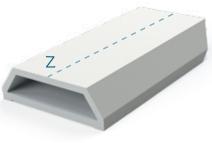


Georgian Bar Door Offsets

35°	Full lengths	Cut Angle	Approximate Deduction
	Rebate to Rebate	45°	X to X - 143mm
	24mm Bead	35°	X to X - 150mm
	28mm Bead	35°	X to X - 151mm
45°	Crossover	Cut Angle	Approximate Deduction
	Bar to Bar	35°	Z to Z - 25mm
	Rebate to Bar	45° + 35°	X to Z - 84mm
	24mm Bead to Bar	35°	X to Z - 90mm
	28mm Bead to Bar	45° + 35°	X to Z - 88mm







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