



origin

DOORS AND WINDOWS

Premium Window (OW-80) Specification File

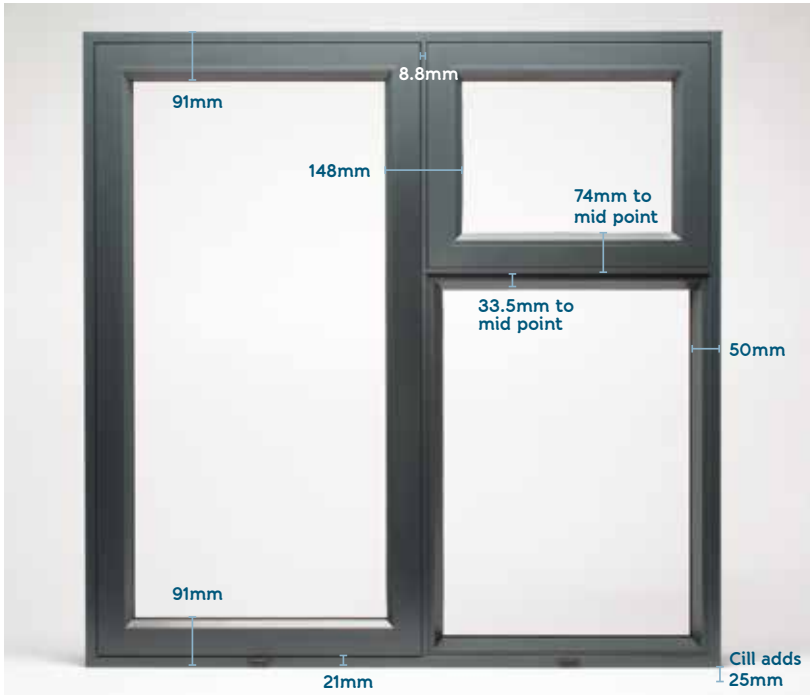


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Specification Overview

Thermally Broken Aluminium Window



External view of the OW-80



Internal 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
- ▶ Night vent function

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
- ▶ Open-out or fixed
- ▶ Cill options available: 95, 155, 180 and 225mm (see page 60)
- ▶ Available in over 150 different RAL colours
- ▶ Gasket colours: black, white, light grey, graphite grey, light oak bronze or chestnut brown
- ▶ Colour matched handle options
- ▶ Fixing strap option (see page 75)**
- ▶ 15 or 35mm frame extender
- ▶ Restrictor hook option
- ▶ Egress hardware
- ▶ Aerogel insulation option (see page 10)
- ▶ Door-to-window and window-to-window coupling available
- ▶ 2500EA and 5000EA trickle vents available
- ▶ Marine finish option
- ▶ Georgian bar style trim available

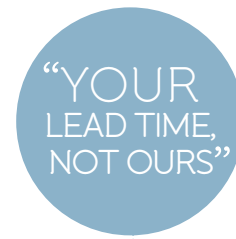
*Guarantee based on location of where the windows will be installed.

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

**When selected as an optional extra on OSS, fixing straps will be delivered in the components box.

Specification Overview

The OW-80 is available on our 'Your Lead Time, Not Ours' delivery promise in our most popular colours, meaning your windows could be available in as little as 24-hours.



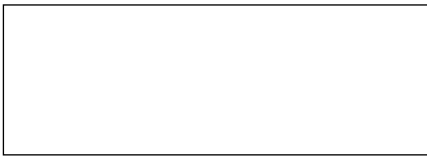
Dark Silver Metallic (9007M)



Black Grey (7021M)



Slate Grey (7015M)



Hipca White (9910G and 9910M)



Anthracite Grey (7016M)



Jet Black (9005M)



9910G in/ 7016M out

This popular dual colour option is available on a 24-hour lead time



Alternatively, dual coloured or any RAL coloured windows can be selected on a 3-week lead time

For the full range, visit origin-global.com

Lead Times

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

Even the gasket or Q-lon colour is your choice



The following are also available:



	Window Colour	Recommended Q-Lon Colour
A.	7015M and 9007M	Graphite Grey
B.	7016M	Anthracite Grey
C.	9005M and 7021M	Black
D.	9006M	Light Grey
E.	9910G and 9910M	White

Drainage cap colours

Popular Colour	Gasket Colour	Drainage Cap Colour	X3 Code
9007M (Dark Silver Metallic)	Light Grey	No. 38 Grey	C01349
7021M (Black Grey)	Anthracite Grey	Dark Grey	C01350
9005M (Jet Black)	Black	Black	C01163
7015M (Slate Grey)	Slate Grey	Dark Grey	C01350
9006M (Light Silver Metallic)	Light Grey	Cement Grey	C01352
9910G (Hipca White)	White	White	C01353
7016M (Anthracite Grey)	Anthracite Grey	Dark Grey	C01350

Other gasket and cap colours available

Gasket Colour	Drainage Cap Colour	X3 Code
Light Oak	Oak	C01354
Light Oak	Tan	C01355
Bronze	Black	C01163
Chestnut Brown	Black	C01163

Security

OW-80 Security Features



The OW-80 is PAS 24:2016 certified and Secured by Design Accredited.

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.

For more information on Secured by Design, please see page 85.



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

Optional Extras

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 extender*

(See page 52 and 53 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 available for use in Scotland and Northern Ireland.

Restrictor Hooks

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



**Minimum sash width applies.*

Optional Extras

Cills

Choose from our 4 cill options which can also be powder-coated to match the windows.



95mm cill



155mm cill



180mm cill



225mm cill

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



9005M - Jet Black



7015M - Slate Grey



9007M - Dark Silver



7021M - Black Grey



7016M - Anthracite Grey



9910G - Hipca White

Metallic range



Chrome



Satin



Gold



Brushed Aluminium

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

Glazing Bars

Glazing bars are available to order with the OW-80 system and allow for both a contemporary steel replacement look or a Georgian sash style window.

The bars are available with 3M fixing tape and are fitted to the glass after installation.

See page 80 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.

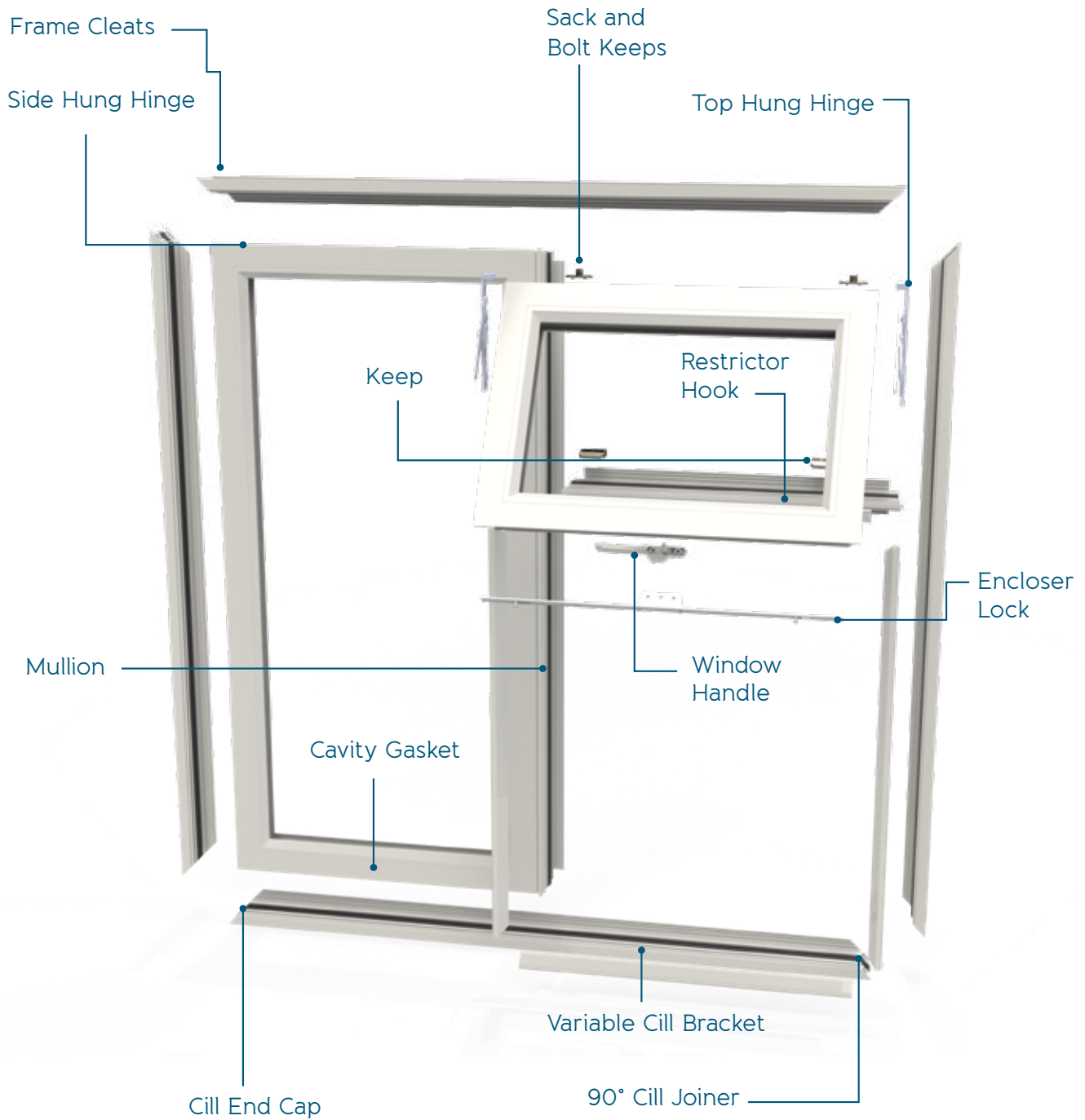
Due to the expensive processes involved in its production, commercial manufacture of it has only become viable since the dawn of the 21st century.

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



Size Limitations

Size and Weight Limitations

	Width	Height	Weight
Minimum Dimensions:			
Fixed frame	225mm	250mm	
Dummy sash	325mm	350mm	
Top hung	400mm	425mm	
Side hung	400mm	425mm	
French window	866mm	499mm	
Maximum Dimensions:			
Fixed frame	7m ² total		
Dummy sash	4.8m ² total		50kg*
Top hung	1500mm	1500mm	50kg*
Side hung	1000mm	1800mm	40kg*
French window	1800mm	1425mm	40kg*

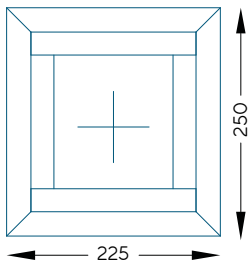
Please note: The minimum and maximum sizes are from the edge of the frame to edge of the frame. Minimum and maximum sash sizes are available on request.



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

Size Limitations

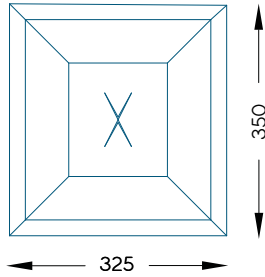
Minimum Dimensions



Fixed frame

Min height: 250mm

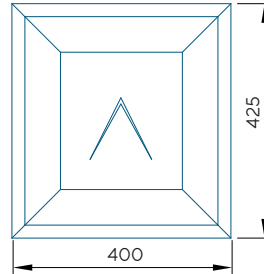
Min width: 225mm



Dummy sash

Min height: 350mm

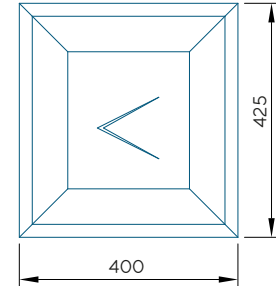
Min width: 325mm



Top hung

Min height: 425mm

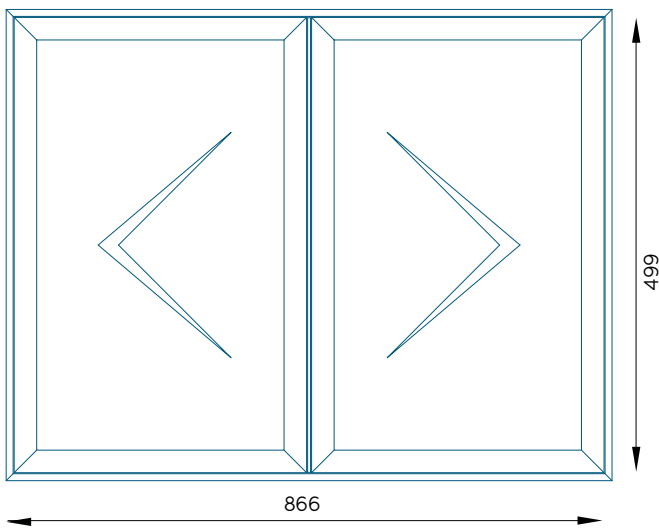
Min width: 400mm



Side hung

Min height: 425mm

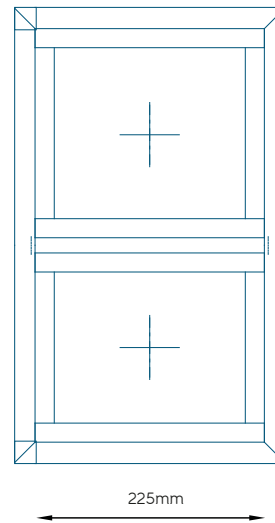
Min width: 400mm



French window

Min height: 499mm

Min width: 866mm



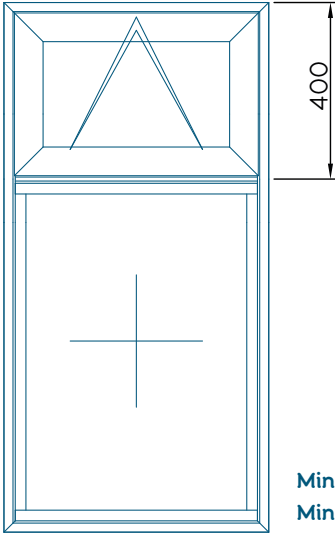
Fixed Transom/ Mullion

Min length: 225mm

Minimum height will be greater with a cill.

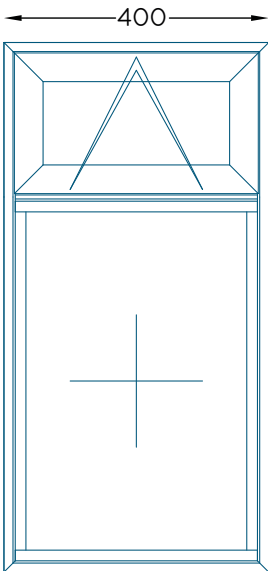
Minimum width will be greater with a frame extender.

Minimum Transom Drop



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

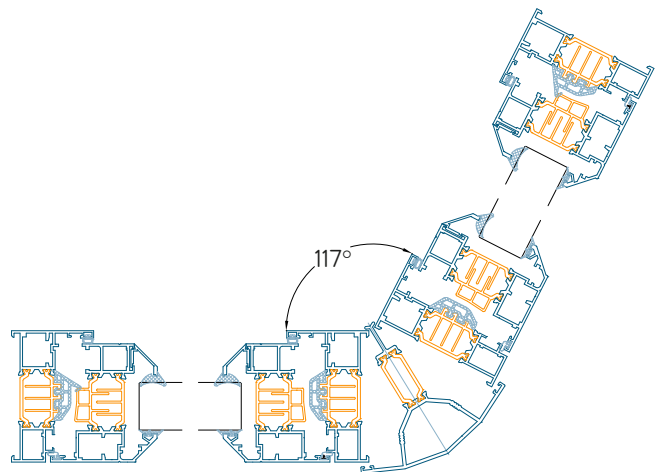
Minimum Sash Width With Trickle Vent



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

Bay Window Tightest Angle

Tightest bay angle: 117°

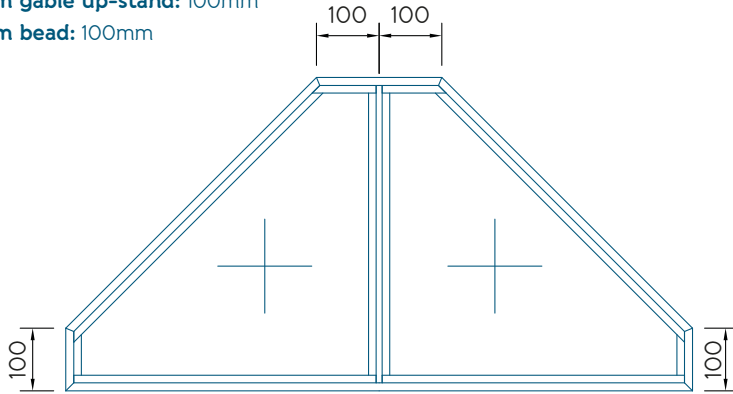


*Minimum airflow requirements to be adhered to as per building regulations.

Minimum Gable Up-Stand

Minimum gable up-stand: 100mm

Minimum bead: 100mm



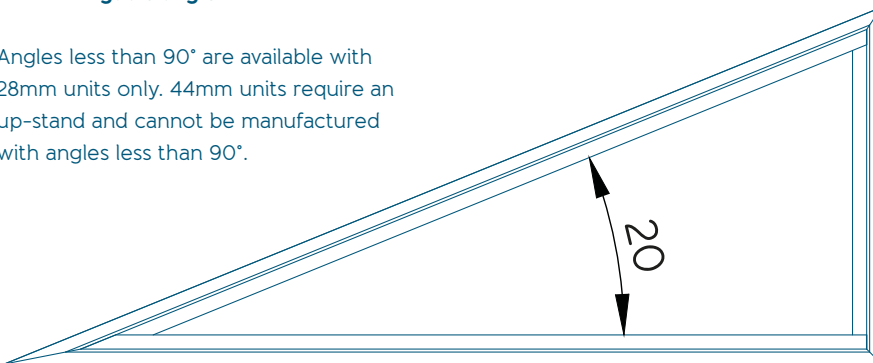
The minimum up-stand on a gable is 100mm.

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.

Minimum Gable Angle

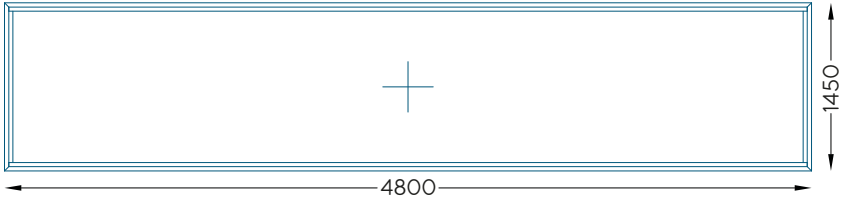
Minimum gable angle: 20°

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°.



Maximum Fixed Frame Dimensions

Example 1

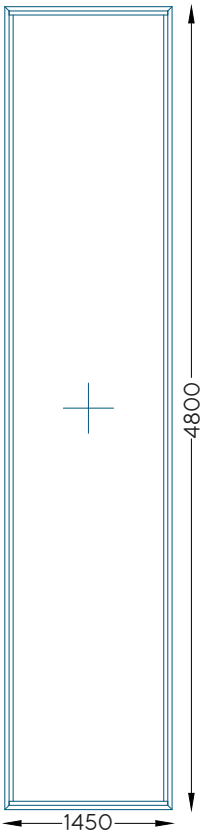


Maximum fixed width and area

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

Maximum width: 4800mm

Example 2

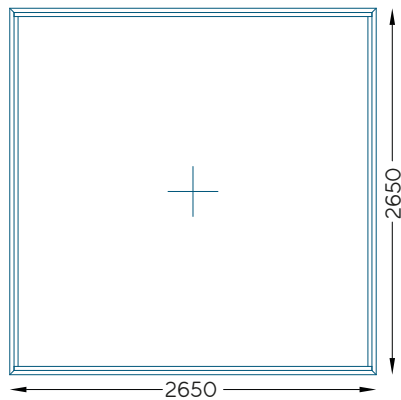


Maximum fixed height and area

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

Maximum height: 4800mm

Example 3



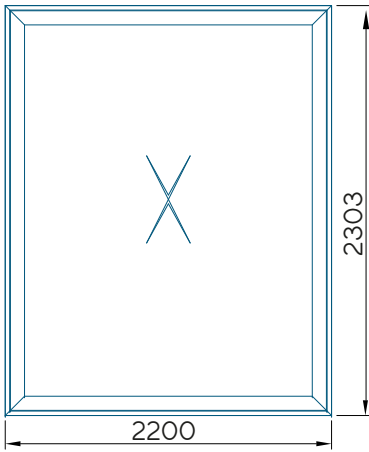
Maximum fixed area

Maximum area: 2650mm x 2650mm = approx 7m²

Maximum height: 2650mm

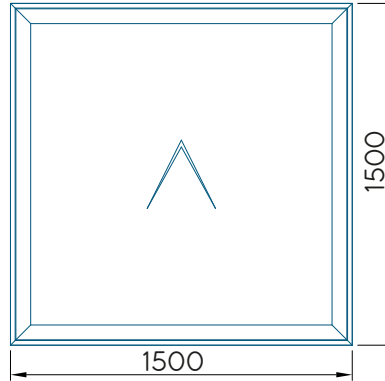
Fixed windows over 4.8sqm cannot be coupled using Origin couplers.

Maximum Dimensions



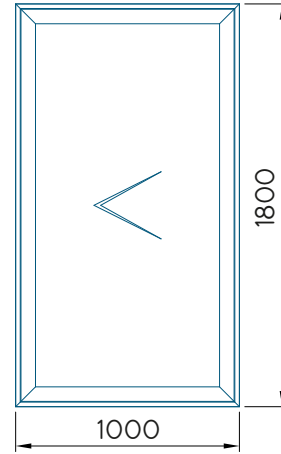
Dummy sash

Max area: 2200mm x 2303mm - approx 4.8m²
Max sash weight: 50kg



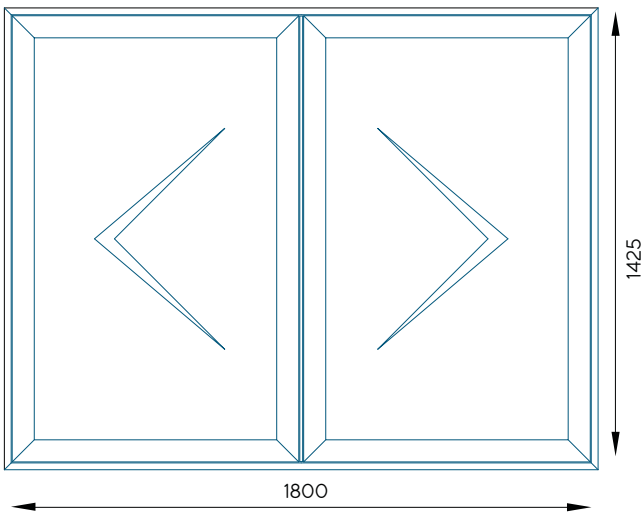
Top hung

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



Side hung

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

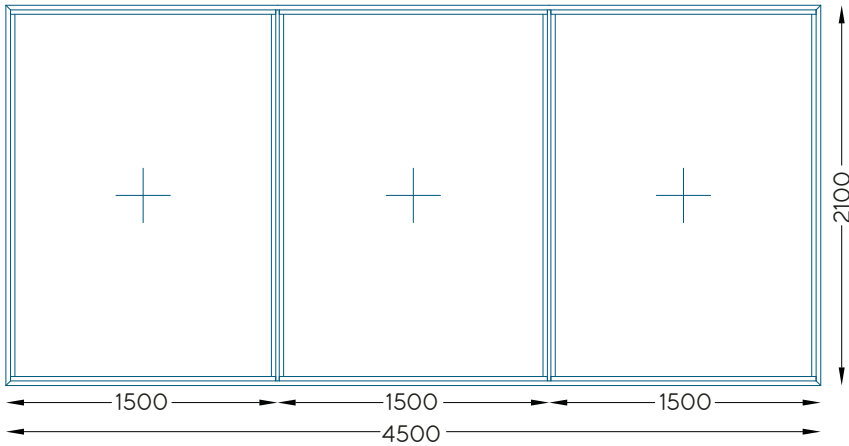


French window

Max height: 1425mm
Max width: 1800mm

Maximum Mullion/ Transom Length

Example 1



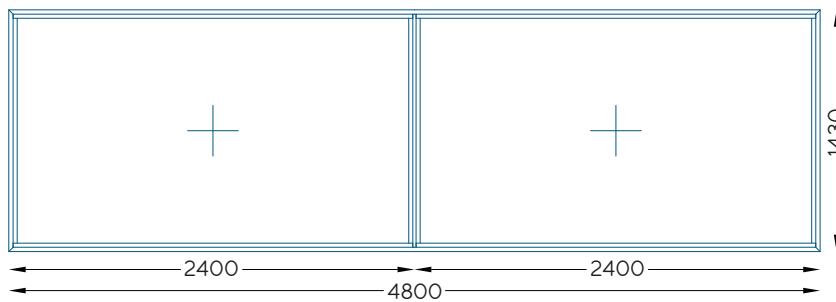
Maximum mullion length and glazed area next to a mullion/ transom

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 2



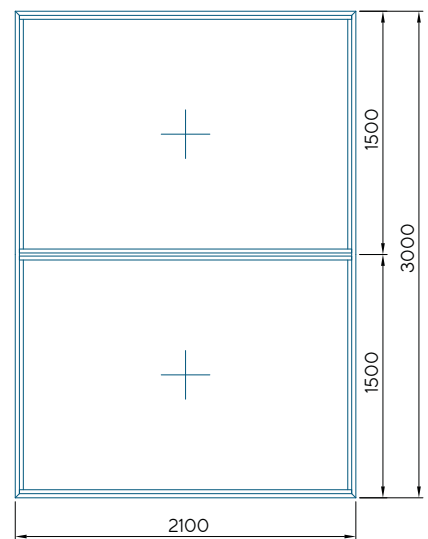
Maximum glazed area next to a mullion or transom

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

Maximum window width: 4800mm

(Mullion is under maximum height of 2100mm)

Example 3



Maximum transom

Transom under maximum width of 2100mm

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

Size Limitations

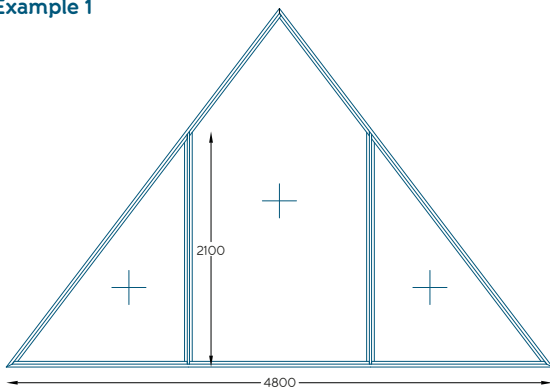
Maximum Gable Size

Maximum mullion length: 2100mm

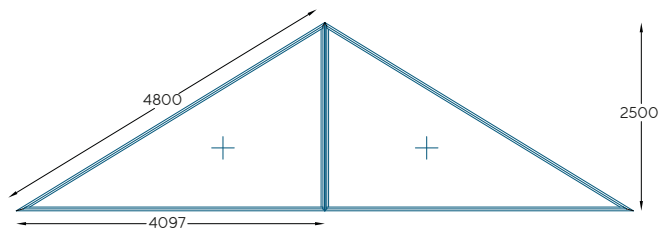
Maximum profile length: 4800mm

Maximum coupled length: 2500mm

Example 1

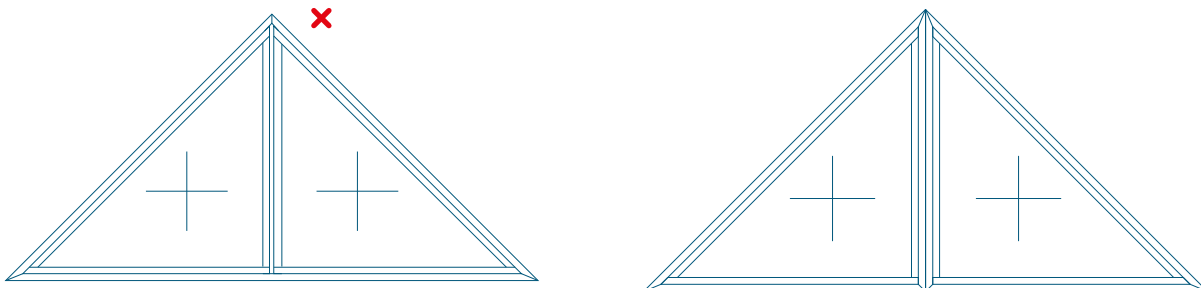


Example 2



Gables Mullion Restrictions

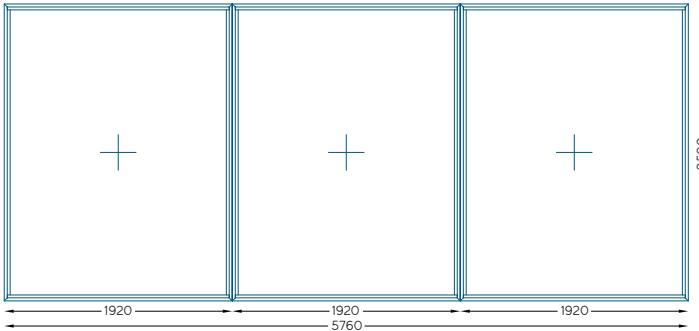
Mullions cannot be joined to another joint or apex in the frame:



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

Maximum Coupled Length

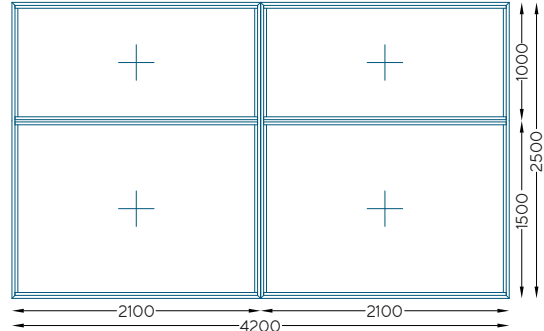
Example 1



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

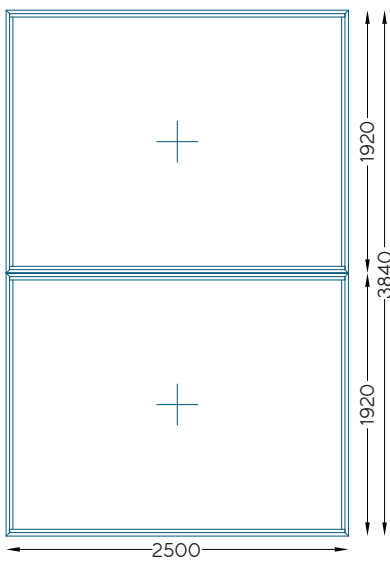
Example 2



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

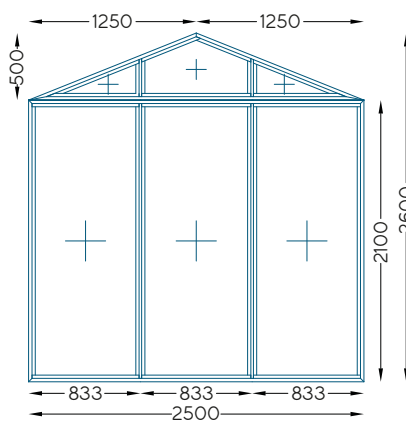
Example 3



Maximum coupled width

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

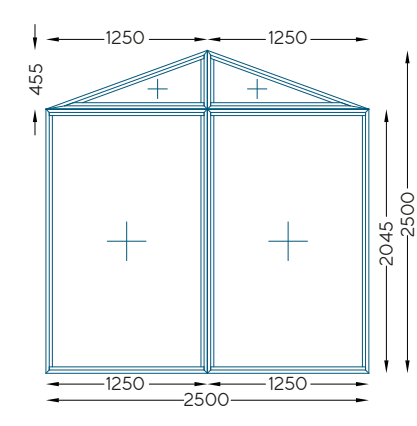
Example 4



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 5



Maximum coupled width and height with tightest gable corner angle

Maximum coupled width and height: 2500mm
Tightest gable corner angle: 20°

Performance and Limitations

Origin Thermal Ratings

u-Value

OW-80 Double Glazed – 28mm	1.6 W/m ² K
OW-80 Double Glazed – 28mm with Aerogel	1.4 W/m ² K
OW-80 Triple Glazed – 44mm	1.1 W/m ² K
OW-80 Triple Glazed – 44mm with Aerogel	0.9 W/m ² K
Energy Rating	From B to A++ (see page 24 - 36)

Weather Rating

Performance

Air Permeability	Class 4, 600Pa
Resistance to Window Load	Class B5, 2000Pa
Water Tightness	Class E1500, 1500Pa

Performance Testing

PAS 24:2016 Certified (Document Q Compliant)
BS EN 10088-2 Grade Certified
Secured by Design accredited
Passed 50,00 hinge cycles

Building Regulation Requirements

New Build and Extensions	2.0 W/m ² K
Replacements	1.6 W/m ² K
Energy Rating	B and C or better

All windows must conform to these requirements.

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 10 or visit www.origin-global.com/aluminium-windows

See the Window Energy Rating Specification Sheet on page 36 for certified test results.

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.

OW-80

Certificate of thermal simulation

PRODUCT:	OW-80
SIM - SOFTWARE:	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE	1.2 W/m ² K (28mm double glazing)
INSULATION	NONE

Thermal Transmittance:
1.6 W/(m²K)

TESTED BY: David Ginger (Product Compliance Director)

DATE: November 2015

SIGNED: 

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

Origin Global HQ, Stuart House, Castle Estate, Coronation Road,
Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18149.1

origin
DOORS AND WINDOWS

OW-80

Certificate of thermal simulation

PRODUCT:	OW-80
SIM - SOFTWARE:	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE	1.070 W/m ² K (28mm double glazing)
INSULATION	AEROGEL

Thermal Transmittance:
1.5 W/(m²K)

TESTED BY: David Ginger (Product Compliance Director)

DATE: November 2015

SIGNED: *D. Ginger*

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

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Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

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DOORS AND WINDOWS

OW-80


Certificate of thermal simulation

PRODUCT:	OW-80
SIM - SOFTWARE:	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE	1 W/m ² K (28mm double glazing)
INSULATION	AEROGEL

Thermal Transmittance:
1.4 W/(m²K)

TESTED BY: David Ginger (Product Compliance Director)

DATE: November 2015

SIGNED: 

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

Origin Global HQ, Stuart House, Castle Estate, Coronation Road,
Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.149.1

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DOORS AND WINDOWS

OW-80

Certificate of thermal simulation

PRODUCT:	OW-80
SIM - SOFTWARE:	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE	0.5 W/m ² K (44mm triple glazing)
INSULATION	NONE

Thermal Transmittance:
1.1 W/(m²K)

TESTED BY: David Ginger (Product Compliance Director)

DATE: November 2015

SIGNED: 

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

Origin Global HQ, Stuart House, Castle Estate, Coronation Road,
Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.149.1

origin
DOORS AND WINDOWS

OW-80

Certificate of thermal simulation

PRODUCT:	OW-80
SIM - SOFTWARE:	Win Iso 2D Pro
GLASS CENTRE PANE U/VALUE	0.5 W/m ² K (44mm triple glazing)
INSULATION	AEROGEL

Thermal Transmittance:
0.9 W/(m²K)

TESTED BY: David Ginger (Product Compliance Director)

DATE: November 2015

SIGNED: 

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

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origin
DOORS AND WINDOWS

OW-80

Classification of weather tightness

PRODUCT TESTED: Double Side Hung Casement Window

- Air permeability tests in accordance with BS EN 1026:2000
- Watertightness test in accordance with BS EN 1027:2000
- Wind resistance tests in accordance with BS EN 12211:2000
- Exposure category classification in accordance with BS 6375-1:2009 (clauses, 7 and 8)

Results:

UK exposure category	Air permeability		Water tightness		Resistance to wind load			
	Class	Maximum test pressure	Class	Maximum test pressure	Class	P1	P2	P3
2000	4	600 Pa	E1500	E1500 Pa	A5	2000	1000	3000

TESTED BY: Build Check Ltd
 REFERENCE: W14060-4
 DATE: 29/05/14

Email: enquiry@origin-global.com | Web: www.origin-global.com

Origin Global HQ, Stuart House, Castle Estate, Coronation Road,
 Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.149.1



OW-80

Classification of weather tightness

PRODUCT TESTED: Aluminium Top Hung Casement Window

- Air permeability tests in accordance with BS EN 1026:2000
- Watertightness test in accordance with BS EN 1027:2000
- Wind resistance tests in accordance with BS EN 12211:2000
- Exposure category classification in accordance with BS 6375-1:2009 (clauses, 7 and 8)

Results:

UK exposure category	Air permeability		Water tightness		Resistance to wind load			
	Class	Maximum test pressure	Class	Maximum test pressure	Class	P1	P2	P3
2000	4	600 Pa	E1500	1050 Pa	E1050	2000	1000	3000

TESTED BY: Build Check Ltd

REFERENCE: W14060-2

DATE: 29/05/14

Email: enquiry@origin-global.com | Web: www.origin-global.com

Origin Global HQ, Stuart House, Castle Estate, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.149.1

origin
DOORS AND WINDOWS

OW-80

Classification of weather tightness

PRODUCT TESTED: Combination & Fixed Casement Window

- Air permeability tests in accordance with BS EN 1026:2000
- Watertightness test in accordance with BS EN 1027:2000
- Wind resistance tests in accordance with BS EN 12211:2000
- Exposure category classification in accordance with BS 6375-1:2009 (clauses ,7 and 8)

Results:

UK exposure category	Air permeability		Water tightness		Resistance to wind load			
	Class	Maximum test pressure	Class	Maximum test pressure	Class	P1	P2	P3
1200	3	600 Pa	9A	E900 Pa	A3	1200	600	1800

TESTED BY: Build Check Ltd

REFERENCE: W15375-1

DATE: 12/11/15

Email: enquiry@origin-global.com | Web: www.origin-global.com

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Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

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origin
DOORS AND WINDOWS

OW-80

Certificate of thermal simulation

PRODUCT TESTED:	Origin Window	
Fixed Outer Frame Identifier:	Fixed Frame	
Mullion Frame Identifier:	Mullion Frame	
Vent Frame Identifier:	Sash Frame	
Glass Type	28mm Double Glazing	
Glass Makeup	4mm Diamant - 2x16mm Air Space with 90% Argon - 2x4mm Total +	
Spacer Bar:	20mm Swiss Ultimate	
Results		
Solar Factor	0.48	
Air Leakage Factor	0	W/(m ² K)
BFRC Energy Rating Index	-9	
BFRC Energy Rating Band	A	



BFRC Certified Simulator 016

TESTED BY: Therm Consulting Ltd

REFERENCE: TCL2015-Origin-004

DATE: 30/03/2015

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

Origin Global HQ, Stuart House, Castle Estate, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.148.1



OW-80

Certificate of thermal simulation

PRODUCT TESTED:	Origin Window Aerogel
Fixed Outer Frame Identifier:	Fixed Frame - Insulated
Mullion Frame Identifier:	Fixed Frame - Insulated
Vent Frame Identifier:	Sash Frame - Insulated
Glass Type	28mm Double Glazing
Glass Makeup	4mm Diamant - 20mm Air Space with 90% Argon - 4mm Total +
Spacer Bar:	20mm Swiss Ultimate

Results

Solar Factor	0.48	
Air Leakage Factor	0	W/(m ² K)
BFRC Energy Rating Index	+6	
BFRC Energy Rating Band	A	



BFRC Certified Simulator 016

TESTED BY: Therm Consulting Ltd

REFERENCE: TCL2015-Origin-003

DATE: 30/03/2015

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

Origin Global HQ, Stuart House, Castle Estate, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.148.1




OW-80

Certificate of thermal simulation

PRODUCT TESTED:	Origin Window
Fixed Outer Frame Identifier:	Fixed Frame
Mullion Frame Identifier:	Mullion Frame
Vent Frame Identifier:	Sash Frame
Glass Type	44mm Triple Glazing
Glass Makeup	4mm Diamant - 2x16mm Air Space with 90% Argon - 2x4mm Total +
Spacer Bar:	2x16mm Swiss Ultimate

Results

Solar Factor	0.41	
Air Leakage Factor	0	W/(m ² K)
BFRC Energy Rating Index	+9	
BFRC Energy Rating Band	A	



BFRC Certified Simulator 016

TESTED BY: Therm Consulting Ltd
 REFERENCE: TCL2015-Origin-002
 DATE: 30/03/2015

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

Origin Global HQ, Stuart House, Castle Estate, Coronation Road,
 Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.148.1



OW-80

Certificate of thermal simulation

PRODUCT TESTED:	Origin Window Aerogel
Fixed Outer Frame Identifier:	Fixed Frame - Insulated
Mullion Frame Identifier:	Mullion Frame - Insulated
Vent Frame Identifier:	Sash Frame - Insulated
Glass Type	44mm Triple Glazing
Glass Makeup	4mm Diamant - 2x16mm Air Space with 90% Argon - 2x4mm Total +
Spacer Bar:	2x16mm Swiss Ultimate

Results

Solar Factor	0.41	
Air Leakage Factor	0	W/(m ² K)
BFRC Energy Rating Index	+21	
BFRC Energy Rating Band	A	



BFRC Certified Simulator 016

TESTED BY: Therm Consulting Ltd

REFERENCE: TCL2015-Origin-001

DATE: 30/03/2015

All simulations strictly in accordance with the requirements of ISO 10077-2:2015

Email: enquiry@origin-global.com | Web: www.origin-global.com

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Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.148.1



OW-80

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	OW-80 (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	OW-80 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	OW-80 (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

BFRC Energy Rating A++

Profile Spec	OW-80 Aerogel (frame:WA03-04, Sash: WA05-06)
Bead	44mm (ie. triple glazed)
Glass Spec	4mm Diamant - 2x16mm 90% Argon - 2x4mm Planitherm Total +
Spacer Bar	2 x 16mm Swiss Ultimate

OFDL_5.32.3

origin

BS 6180:2011

Building Regulations Part K Compliance BS 6180:2011 Barriers in and about buildings

REPORT REFERENCE:	CW17513-2
ISSUE DATE:	31 January 2018
PROJECT:	Multi-light Barrier Window
PREPARED FOR:	Origin Frames Ltd Stuart House, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA
TEST HOUSE:	Build Check Ltd

SAMPLE 1	TEST	LOAD	PASS/FAIL
	Line load	0.74 kN	Pass
	Point load	0.5 kN	Pass
	Uniform distribution load (UDL)	1.0 kN/m ²	Pass

TEST 1	LOAD	DEFLECTION	PASS/FAIL
Line load	0.96 kN	14.75	Pass
Point load glazing	0.5 kN	4.25	Pass
Point load frame	0.5 kN	4.10	Pass
Uniform distribution load (UDL)	1.06 kN/m ²	9.89	Pass

TEST 2	LOAD	RESULT
Line load	1.44 kN	Pass
Point load glazing	0.75 kN	Pass
Point load frame	0.75 kN	Pass
Uniform distribution load (UDL)	1.6 kN/m ²	Pass

enquiry@origin-global.com | Web: www.origin-global.com

Stuart House, Coronation Road, Cressex Business Park, High
Wycombe, Buckinghamshire, HP12 3TA

OFDL_18.133.1

origin
DOORS AND WINDOWS

Windows

Security Report

PRODUCT TESTED: Origin Casement Window

	SUMMARY OF TESTING PROCEDURE:	RESULT:
Top Hung	PAS 24: 2012 - Clause C.4.3, C.4.4.2, C.4.4.3, C.4.5, C.4.6 and C.4.7	Pass
Fixed Light	PAS 24: 2012 - Clause C.4.4.2 and C.4.4.3	Pass
Side Hung	PAS 24: 2012 - Clause C.4.4, C.4.4.3, C.4.4.3, C.4.5 and C.4.6	Pass

TESTED BY: Build Check Ltd.
REFERENCE: BMT/MTP/F14289/02
TR 357-14
DATE: 30/06/2014
20/02/2015



Email: info@origin-global.com | Web: www.origin-global.com

Origin Frames Ltd, Sands 10 Industrial Estate, Hillbottom Road, High Wycombe, HP12 4HS

OFDL_3.171.2

OW-80

Certificate of PAS 24

PRODUCT:	ORIGIN WINDOW OW-80
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SUMMARY OF TESTING PROCEDURE: PAS 24: 2016 - CLAUSE C4.3, C.4.4.2, C4.4.3, C.4.5, C.4.6, C.4.7	RESULT: PASS
---	-----------------

TO COMPLY A BSEN 356 P1A CERTIFIED GLASS UNIT MUST BE INSTALLED.



Secured by Design
Police Preferred Specification

TESTED BY: Build Check Ltd
REFERENCE: securedbydesign.com/member-companies/sbd-members
DATE: 01/08/2019

Email: enquiry@origin-global.com | Web: www.origin-global.com
Origin Global HQ, Stuart House, Castle Estate, Coronation Road,
Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA
OFDL_181441

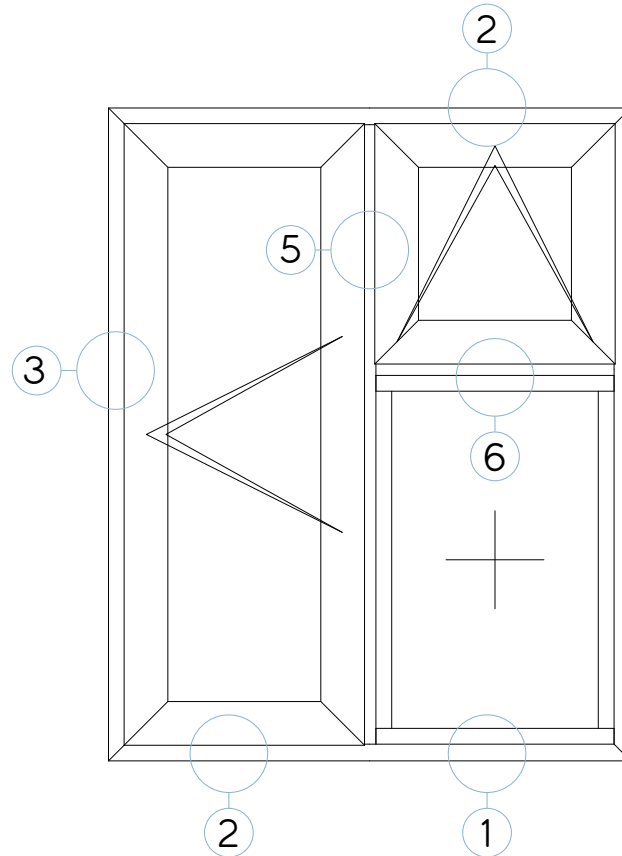


origin
DOORS AND WINDOWS

Master Configurations

Master Configuration: Casement

See Configuration Key for section detail ▶



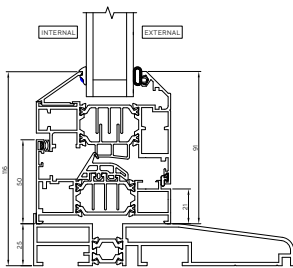
Key features

- ▶ Secured by Design locking system
- ▶ Can be specified for egress

See page 69 for popular configurations

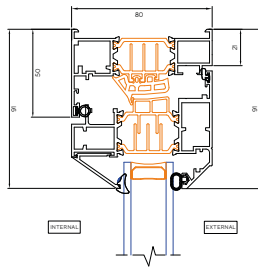
Configuration Key

1 - Cill, Frame and Sash Detail



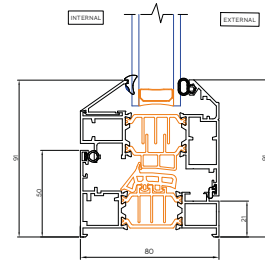
See page 44

2 - Sash Below Frame Detail



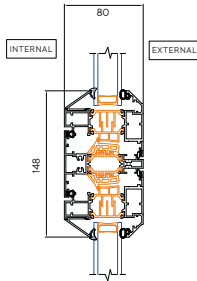
See page 45

3 - Frame Next to Sash Detail



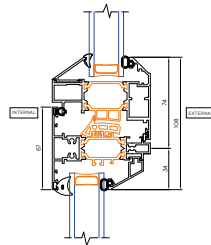
See page 46

5 - Mullion Sightlines Sash-to-Sash Detail



See page 48

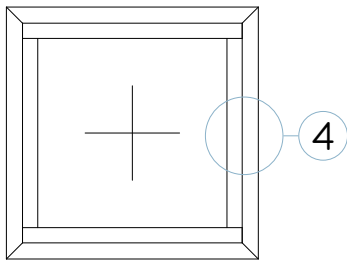
6 - Top Hung Sash Over Mullion Detail



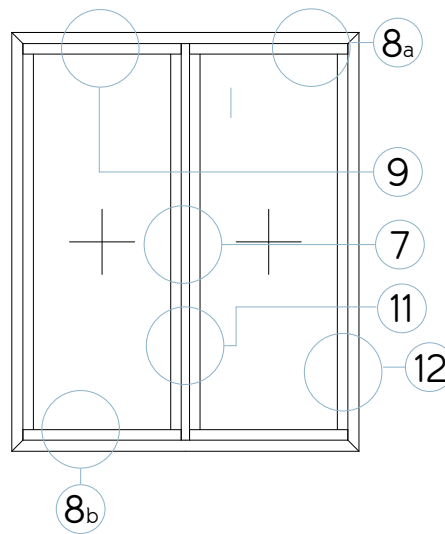
See page 49

Master Configuration: Fixed

See Configuration Key for section detail ▶



Mullion sightlines for fixed frames



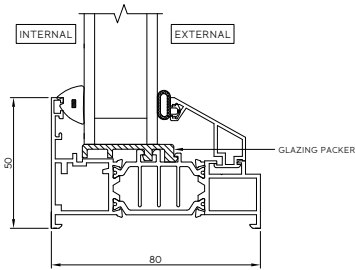
Key features

- ▶ Secured by Design locking system
- ▶ Can be specified up to 7sqm

See page 69 for popular configurations

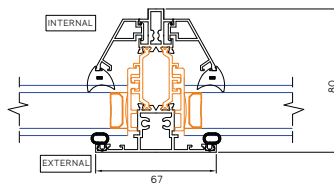
Configuration Key

4a-4b - Fixed Frame Detail



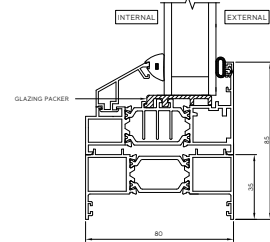
See page 47

7 - Mullion Sightline For Vertically Beaded Fixed Frame Detail



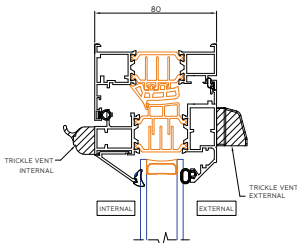
See page 50

8a-8b - Frame Extender Detail



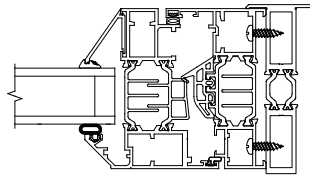
See page 51

9a-9b - Trickle Vent Trough Sash/ Frame Detail



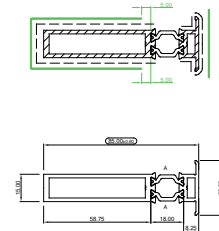
See pages 52 - 53

11b - Window-to-Window Coupler Detail



See page 55

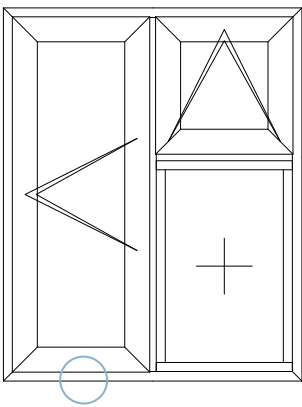
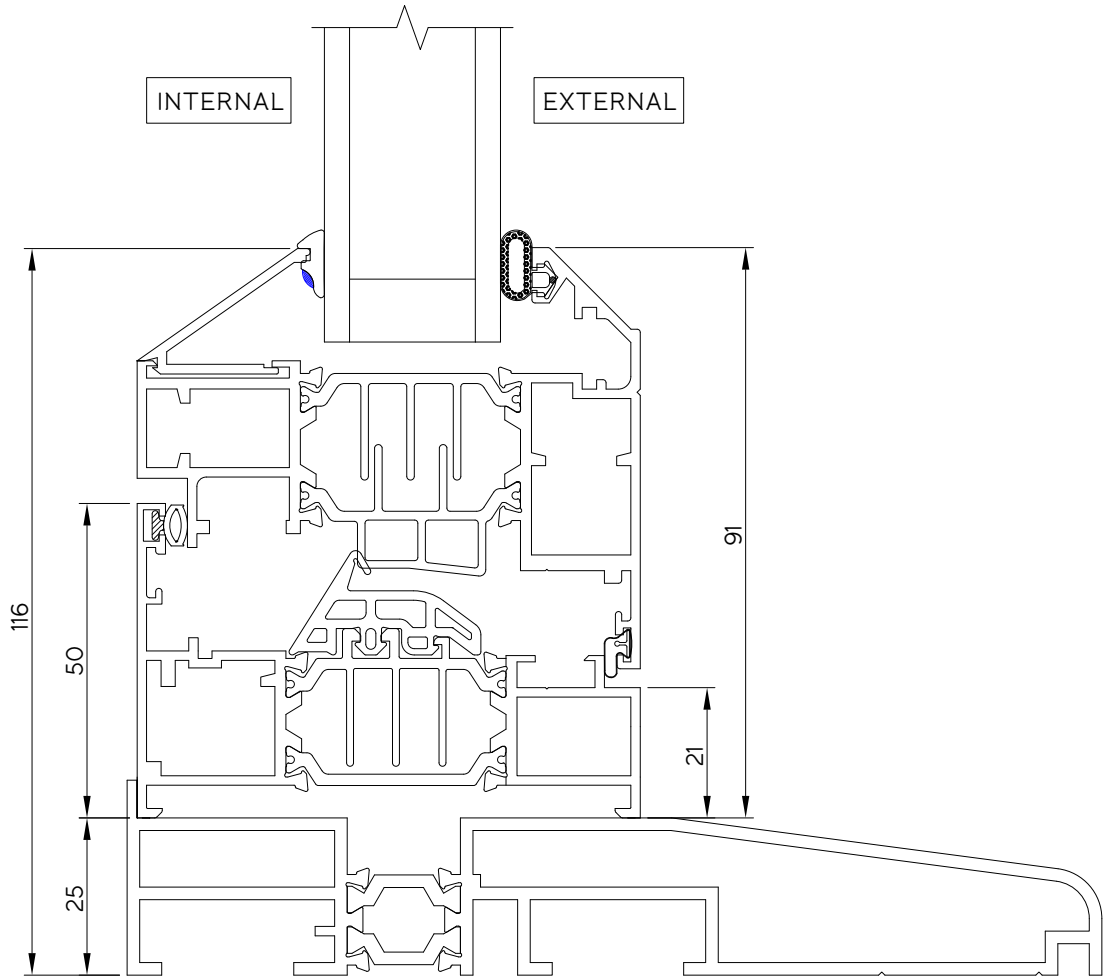
12 - Window-to-Door Coupler Details



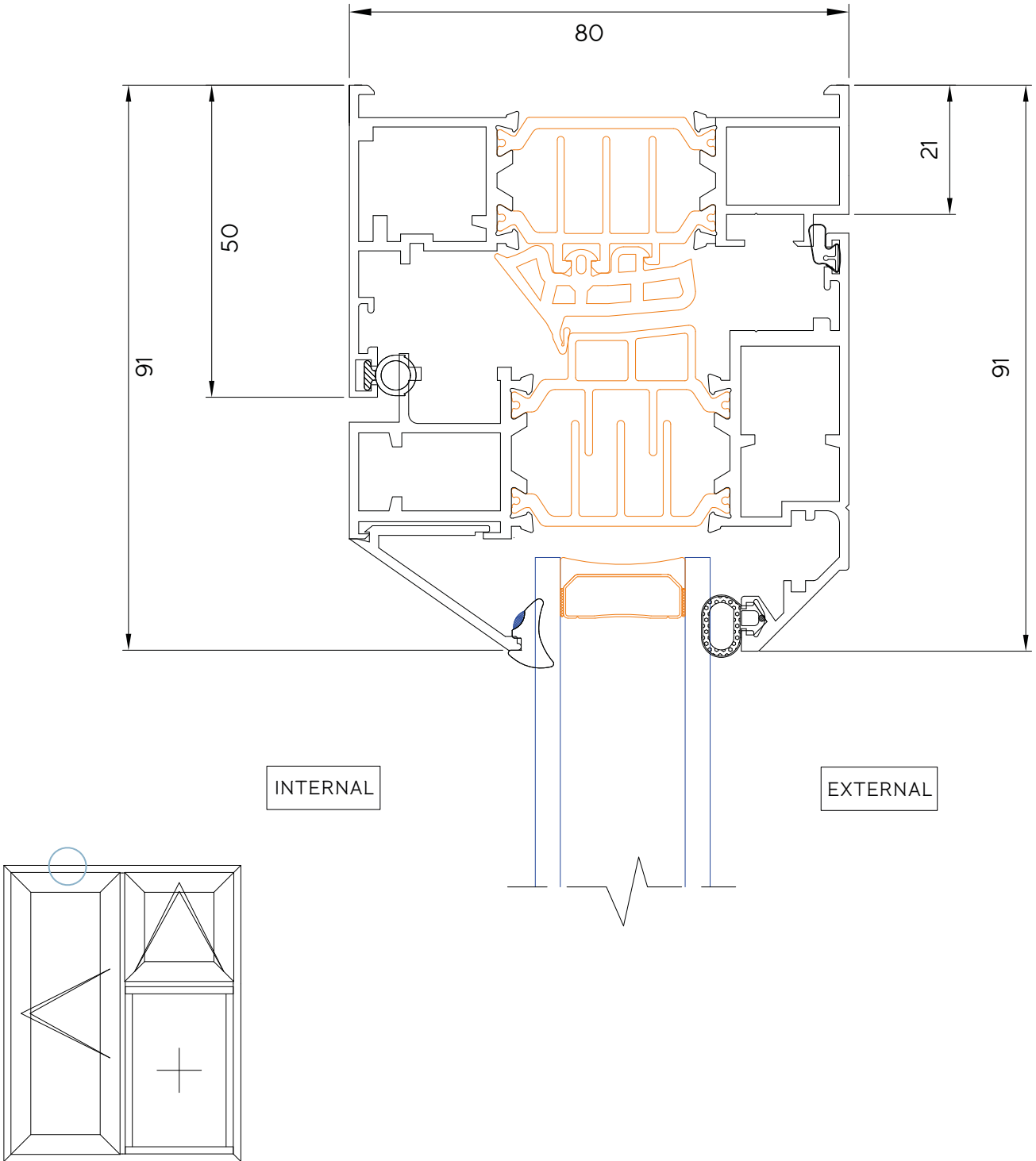
See page 57

Technical Drawings

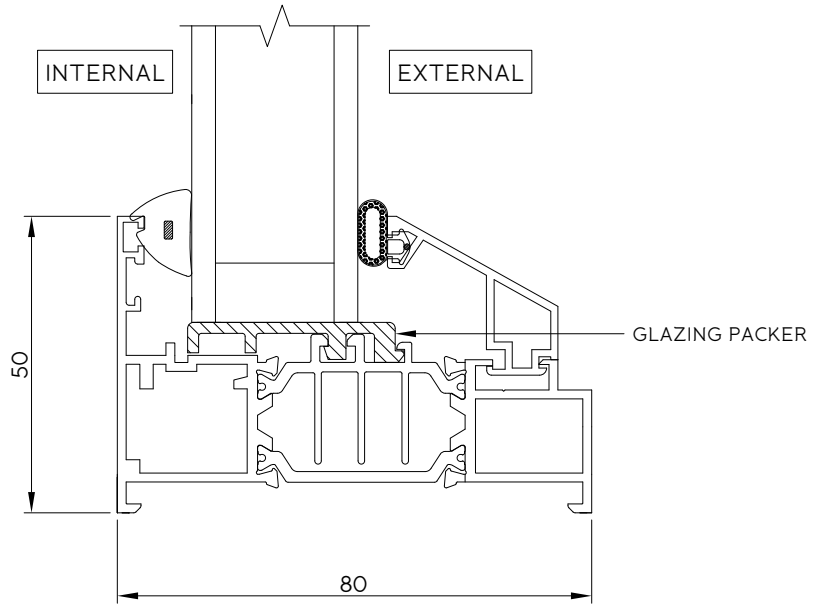
1 Cill, Frame and Sash Detail



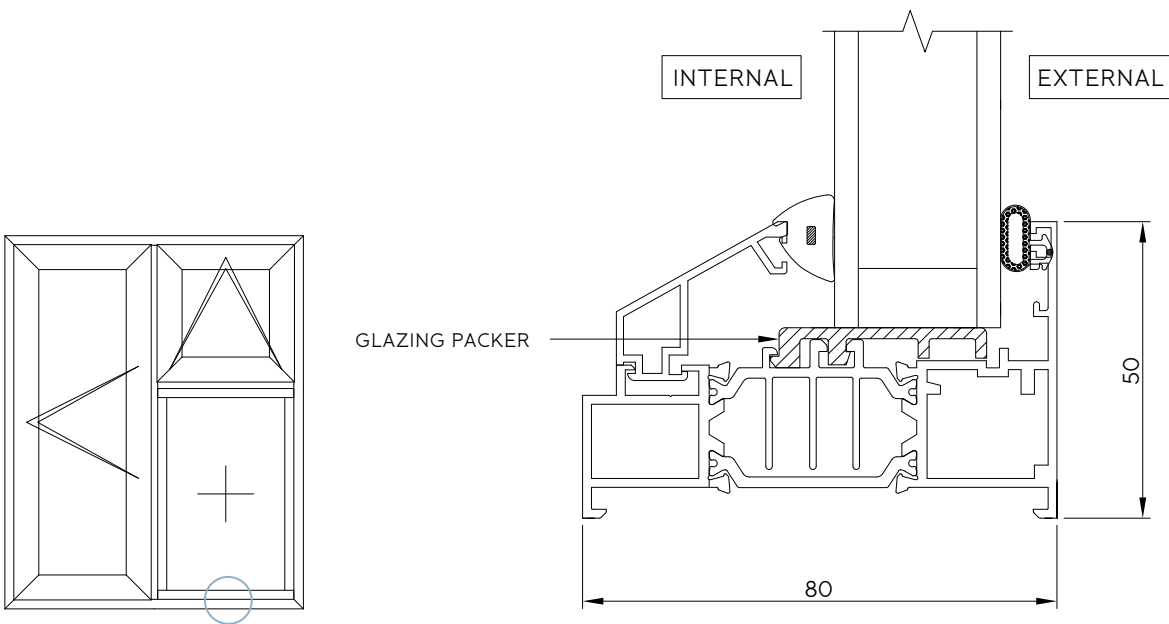
2 Sash Below Frame Detail



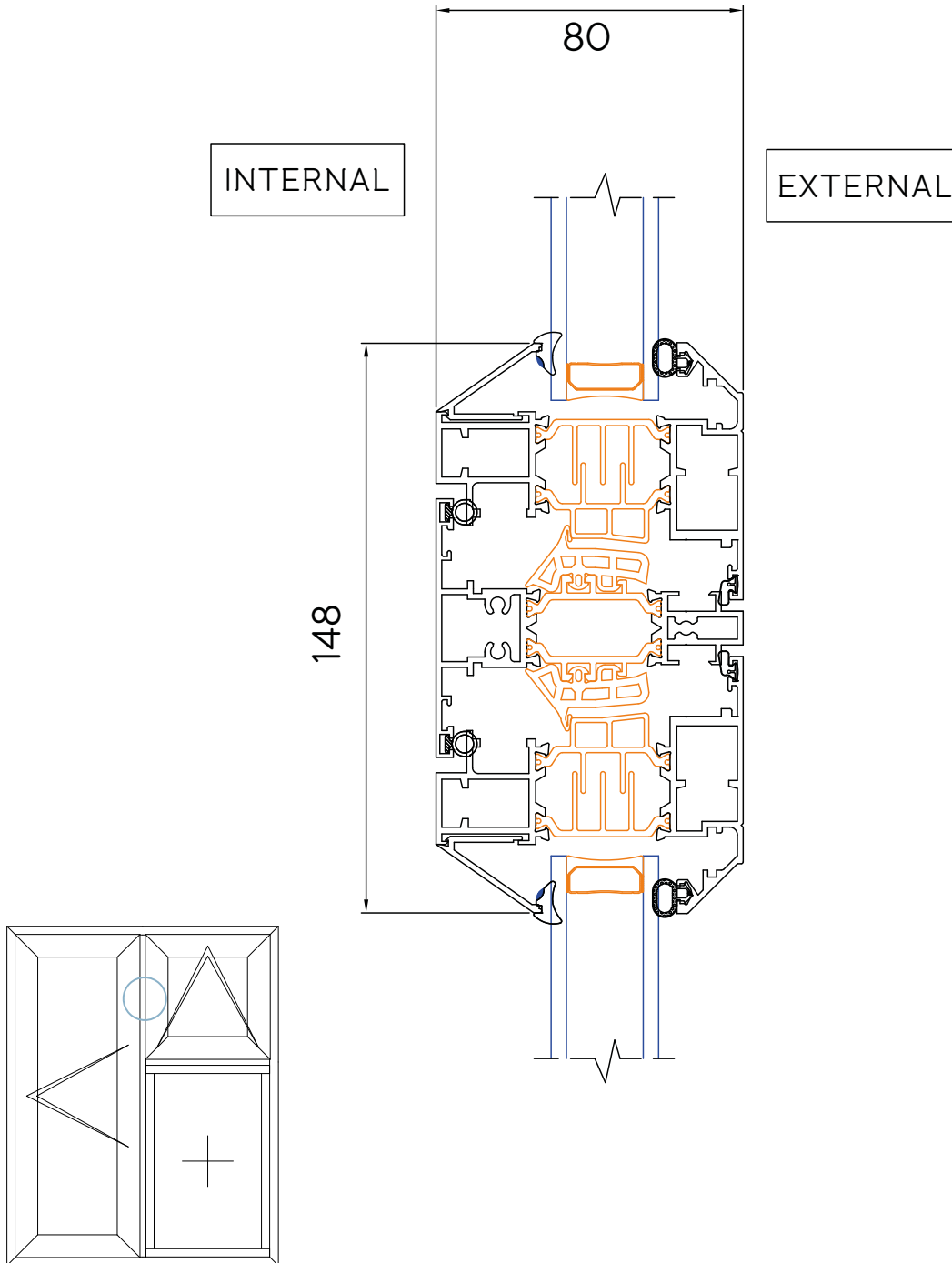
4a Fixed Frame - External Bead Detail



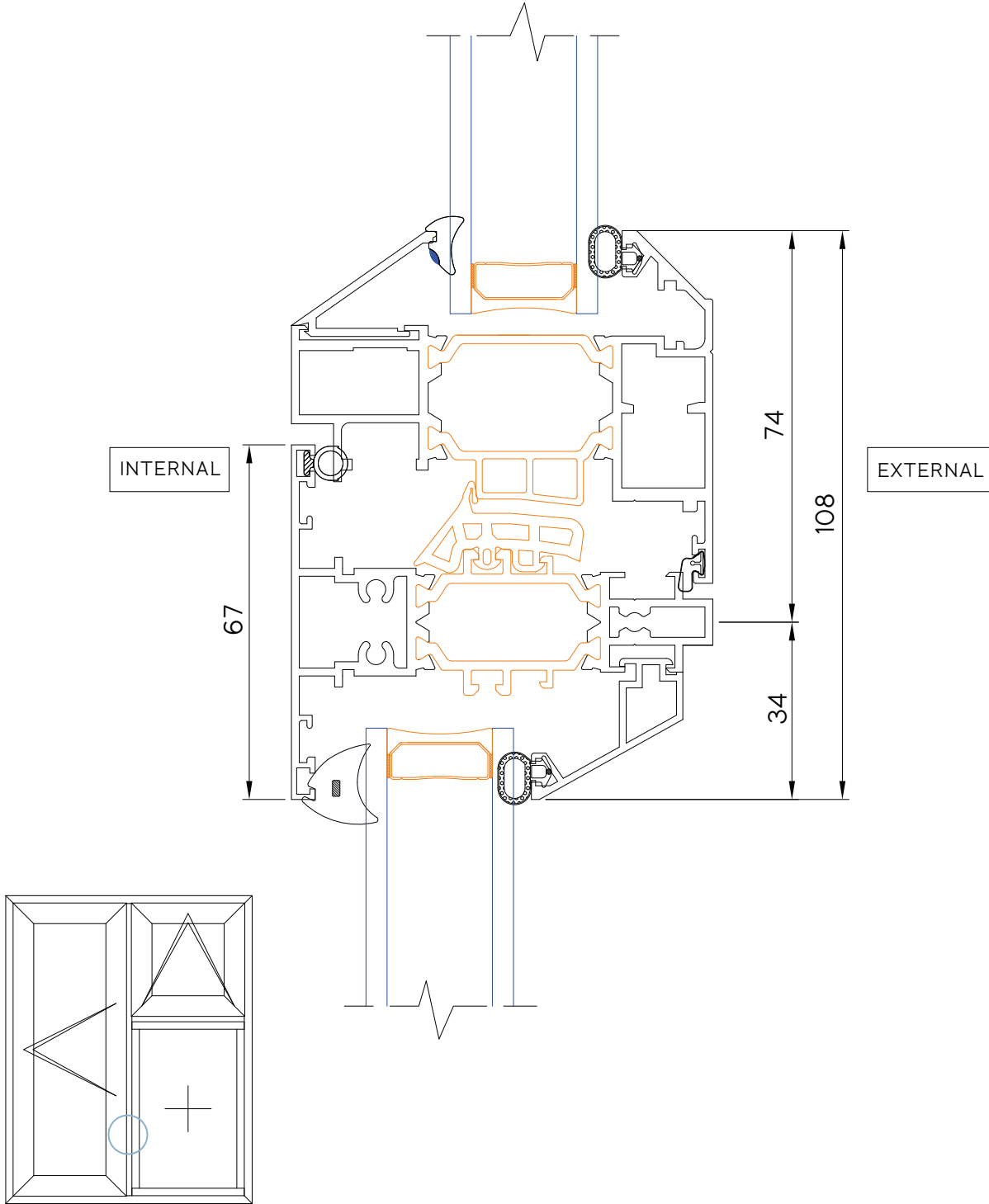
4b Fixed Frame - Internal Bead Detail



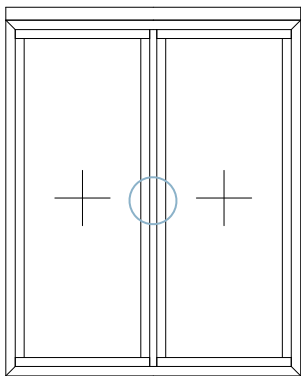
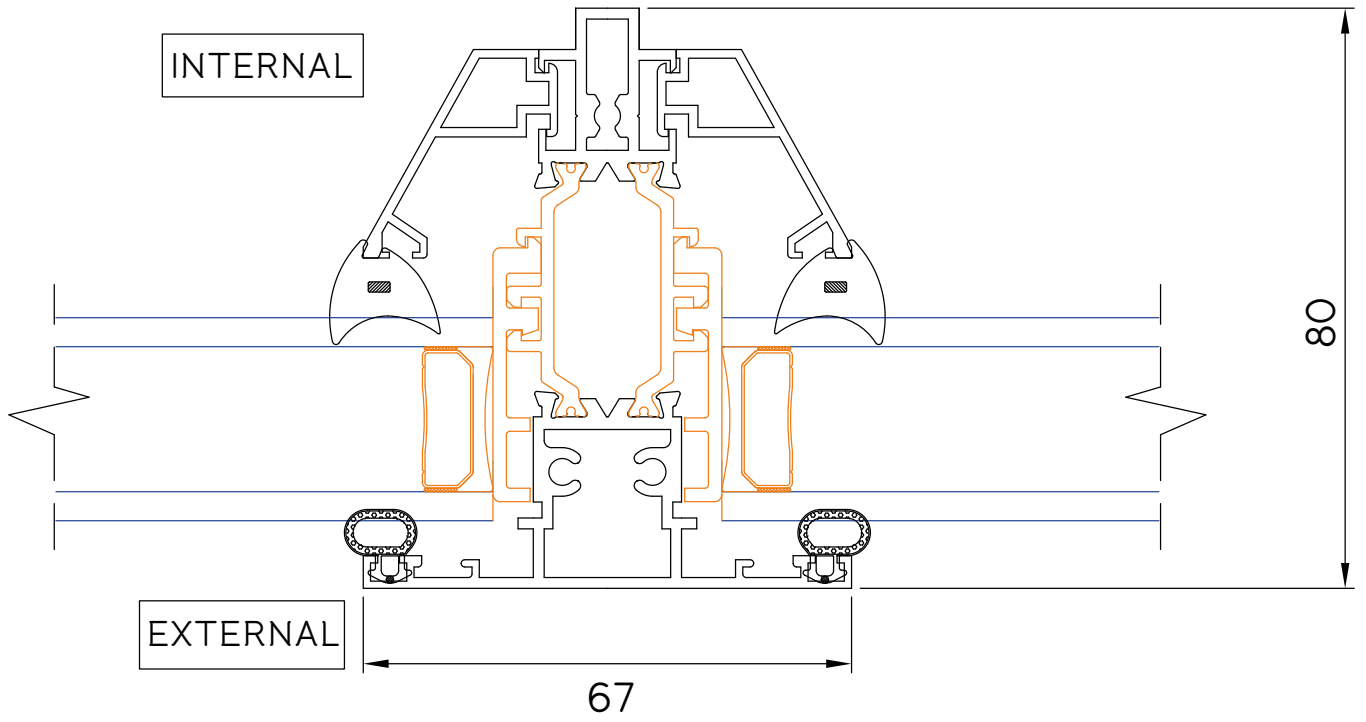
5 Mullion Sightlines - Sash-to-Sash Detail



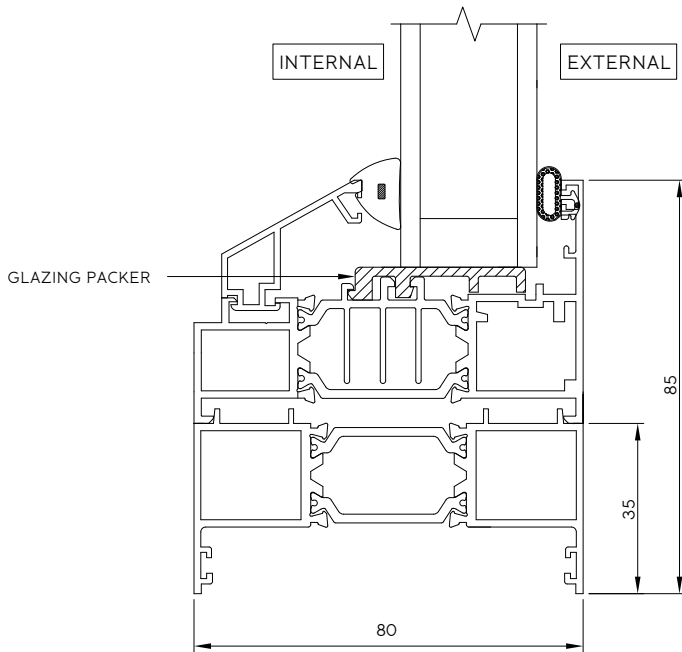
6 Top Hung Sash Over Mullion Detail



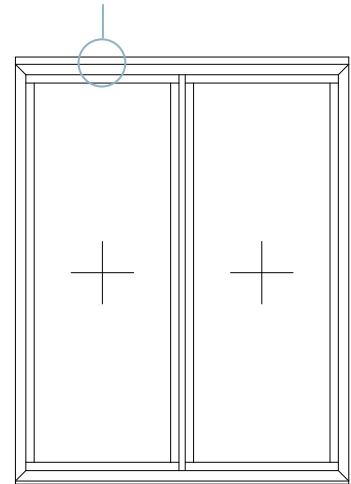
7 Mullion Sightlines For Internally Beaded Fixed Frames Detail



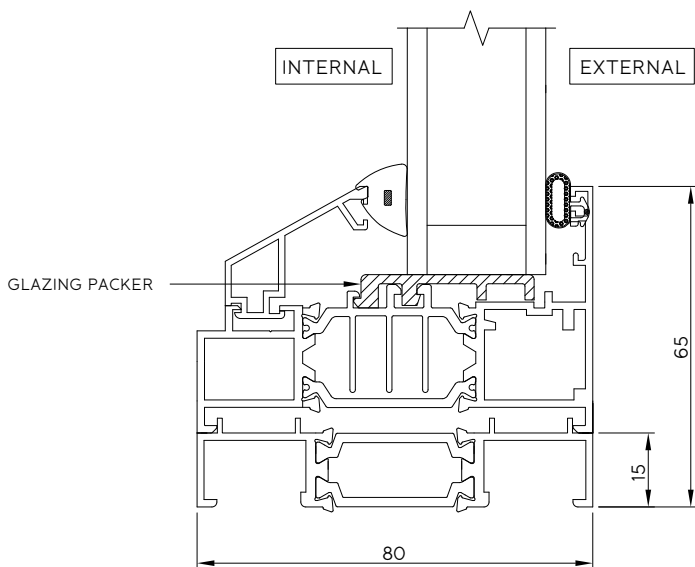
8a 35mm Frame Extender Detail



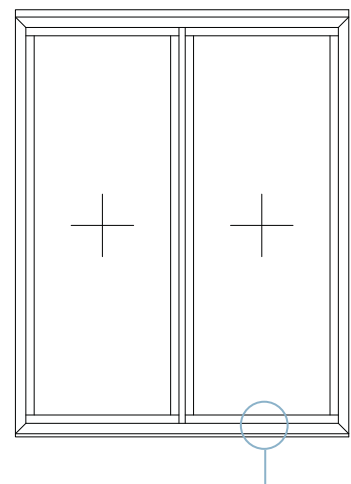
35mm frame extender with fixed frame



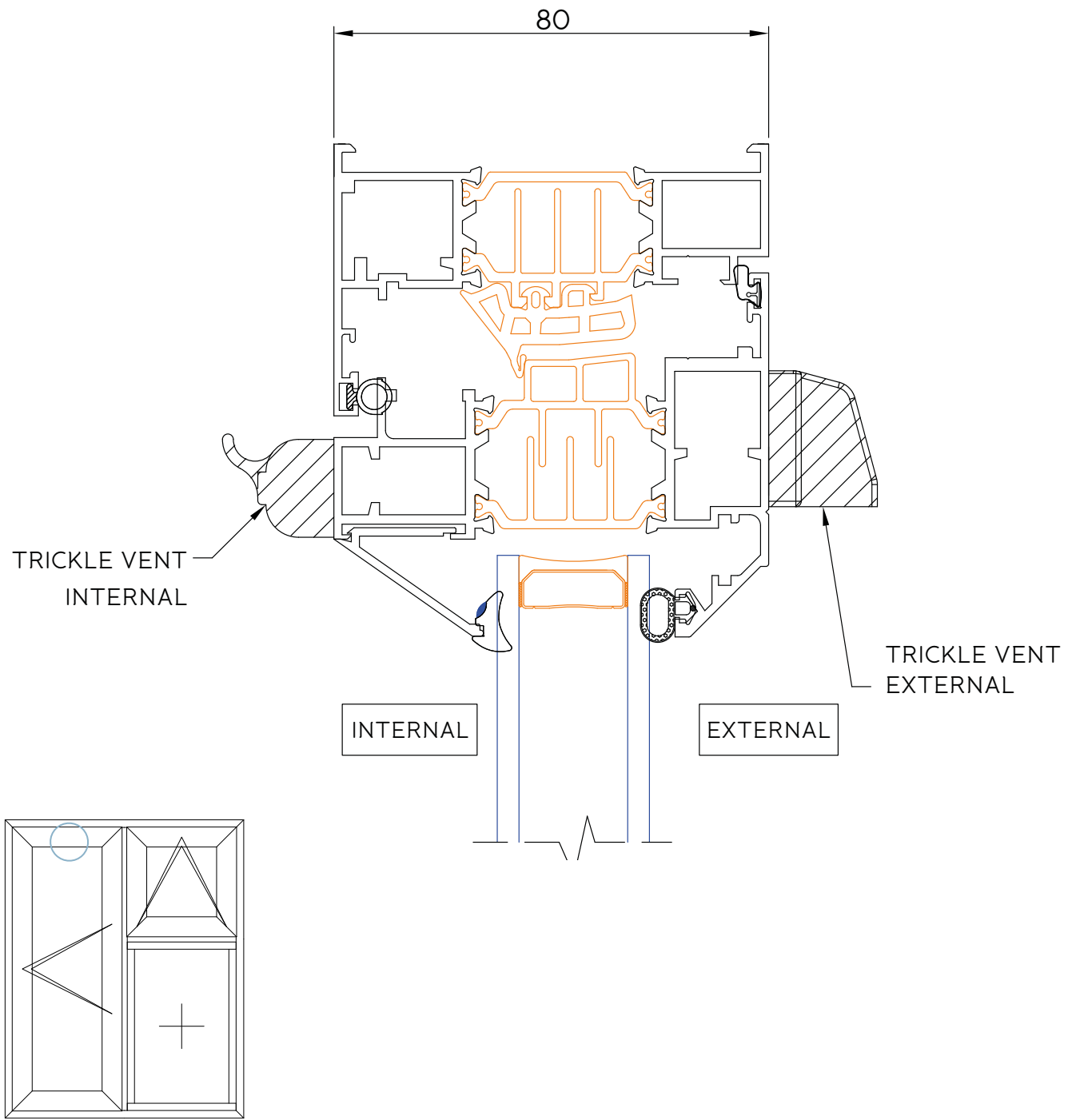
8b 15mm Frame Extender Detail



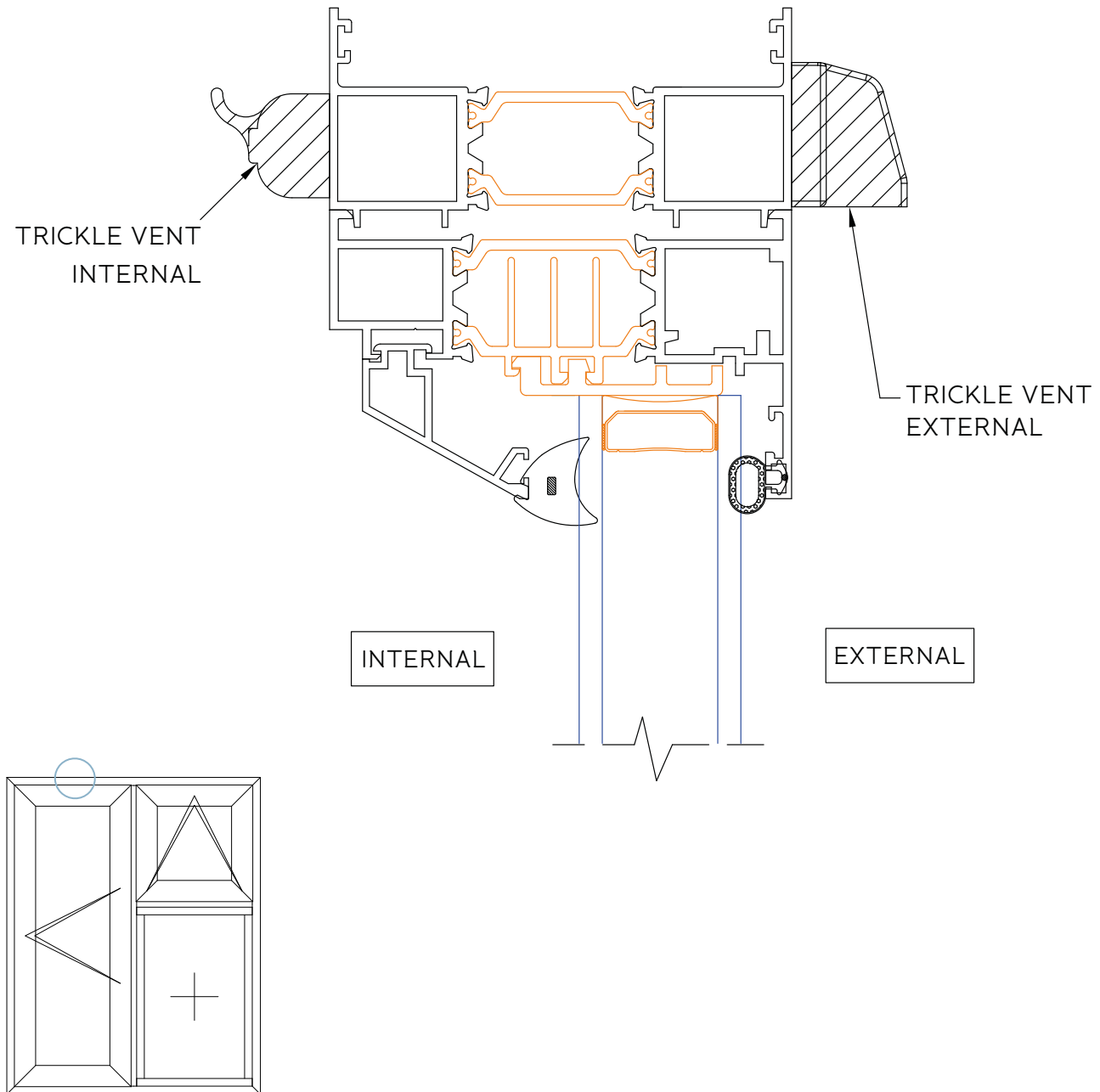
15mm frame extender



9a Trickle Vent Through Sash Detail

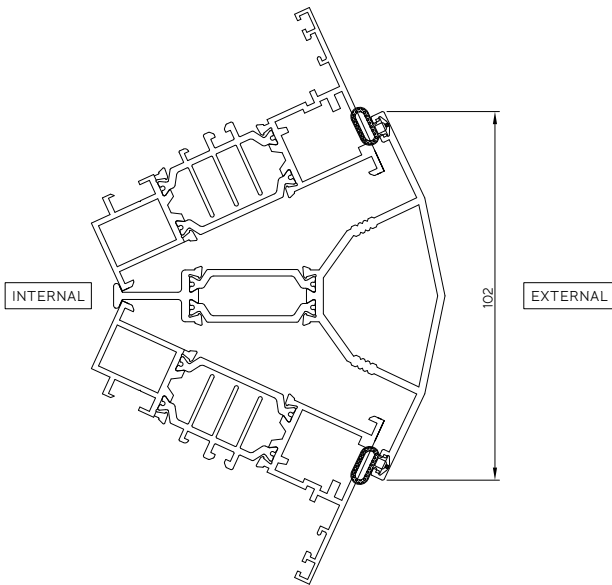


9b Trickle Vent Through 35mm Frame Extender Detail

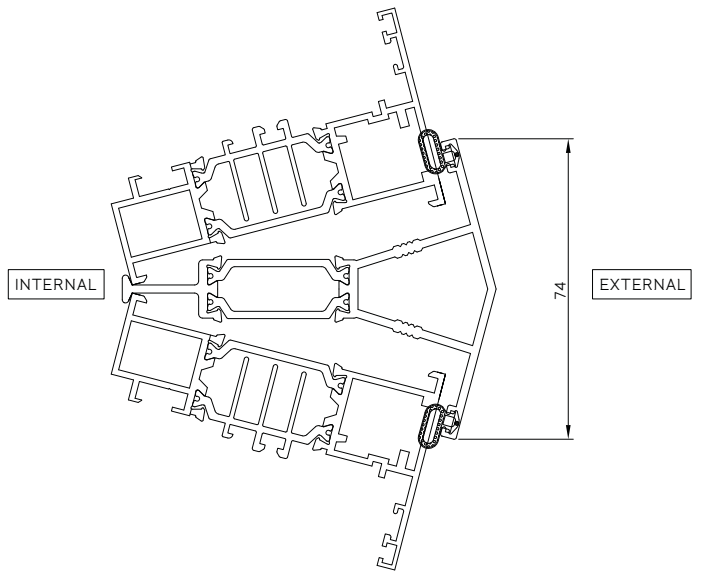


10a-c Variable Bay Mullion Detail

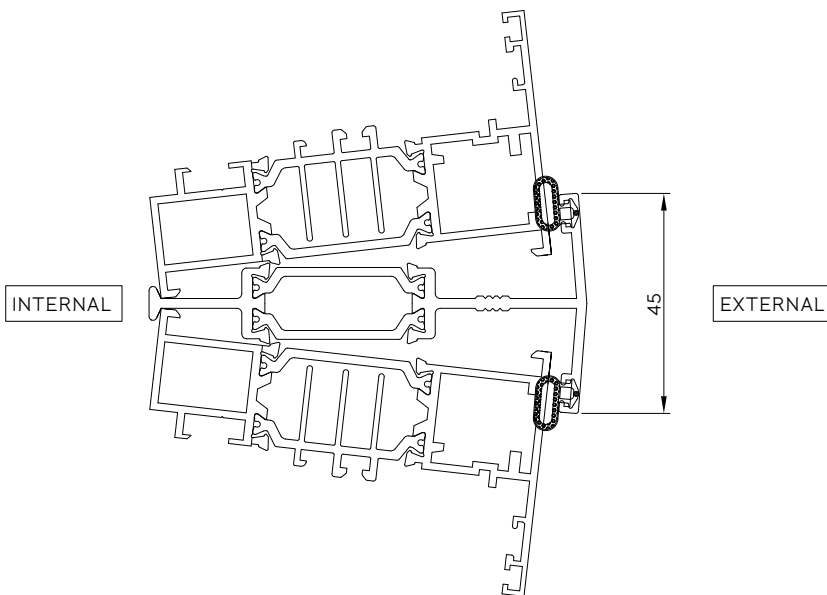
Internal angles: 117° - 138°



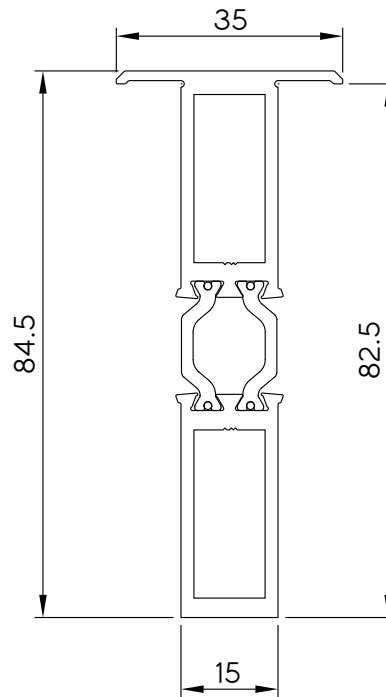
Internal angles: 138° - 159°



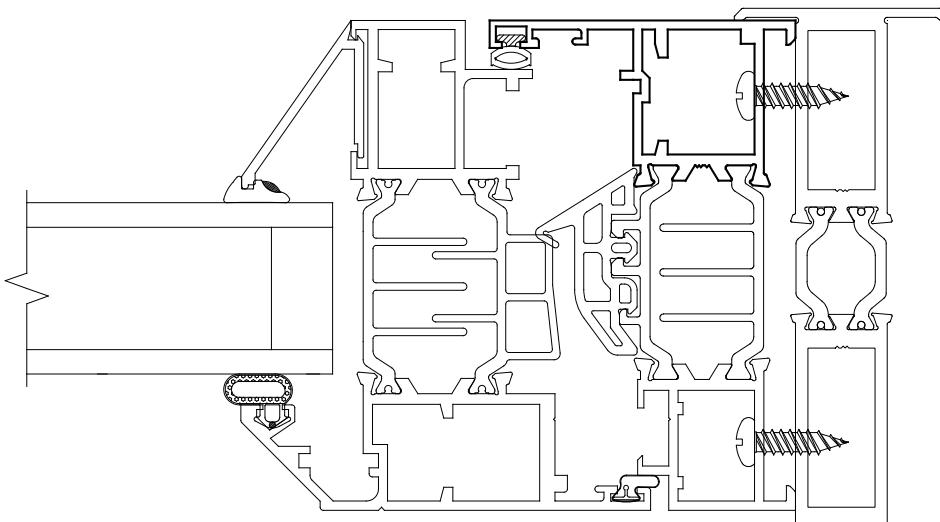
Internal angles: 159° - 175°



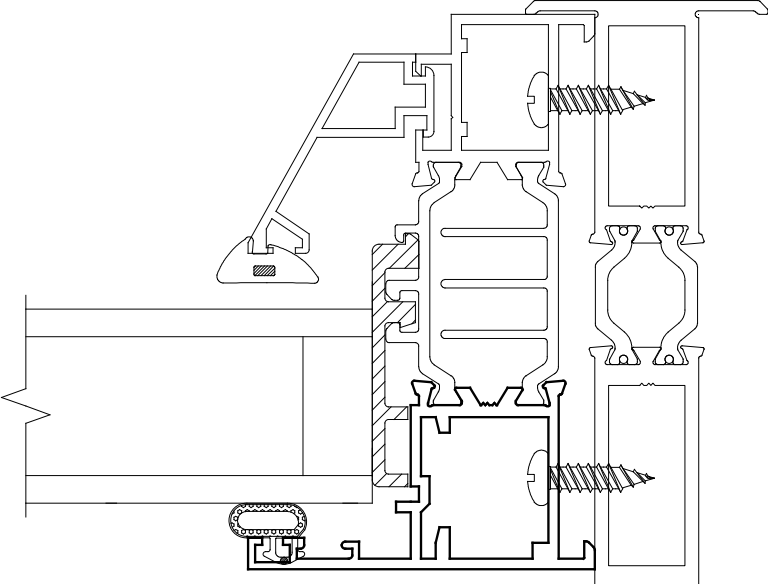
11a Window-to-Window Coupler Detail



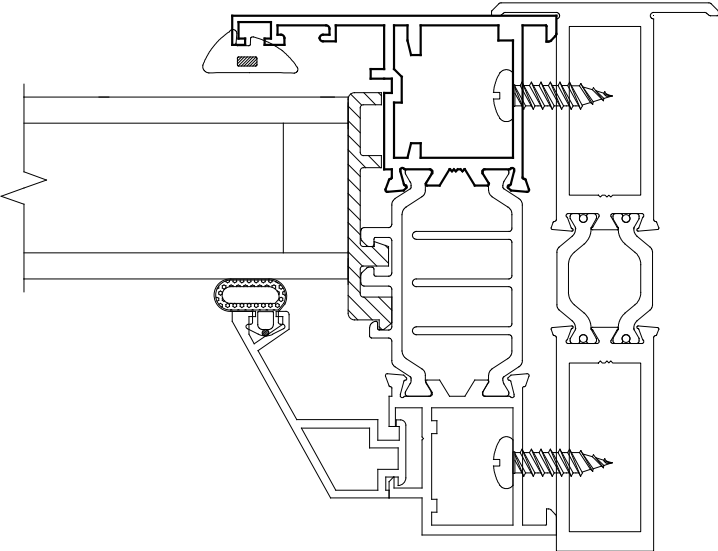
11b Window-to-Window Coupler (Casement) Detail



11c Window-to-Window Coupler (Fixed, Internally Glazed) Detail

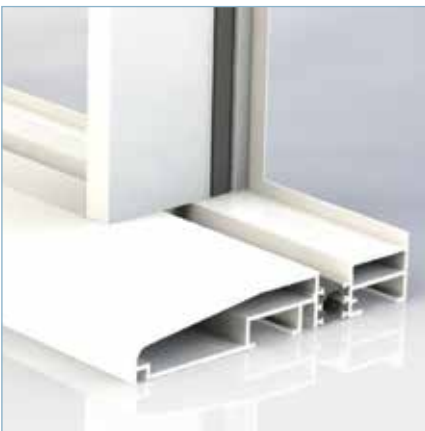
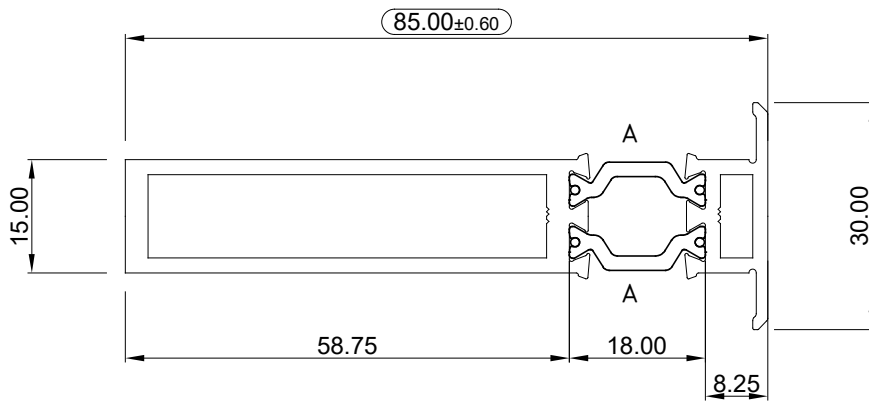
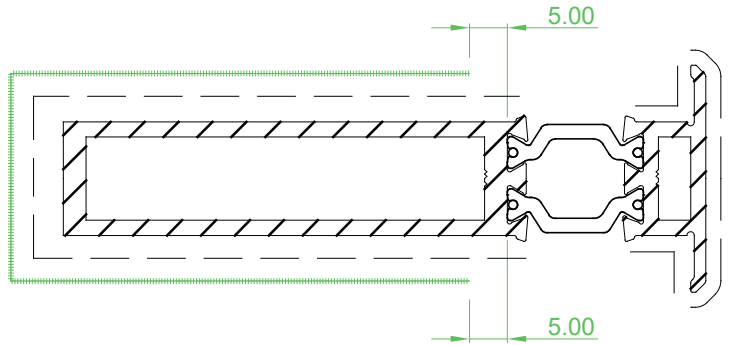


11d Window-to-Window Coupler (Fixed, Externally Glazed) Detail

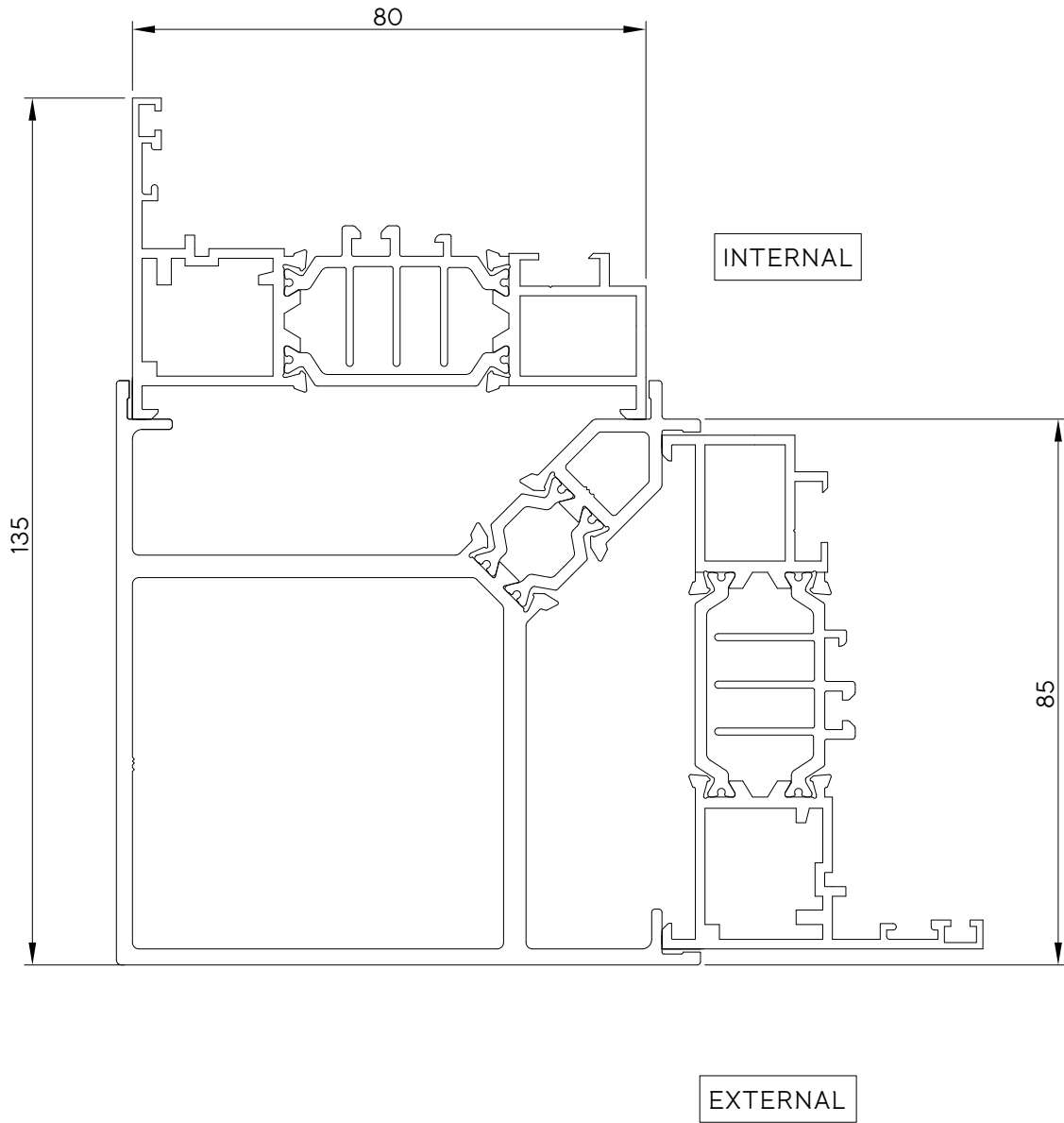


12 Window-to-Door Coupler Detail

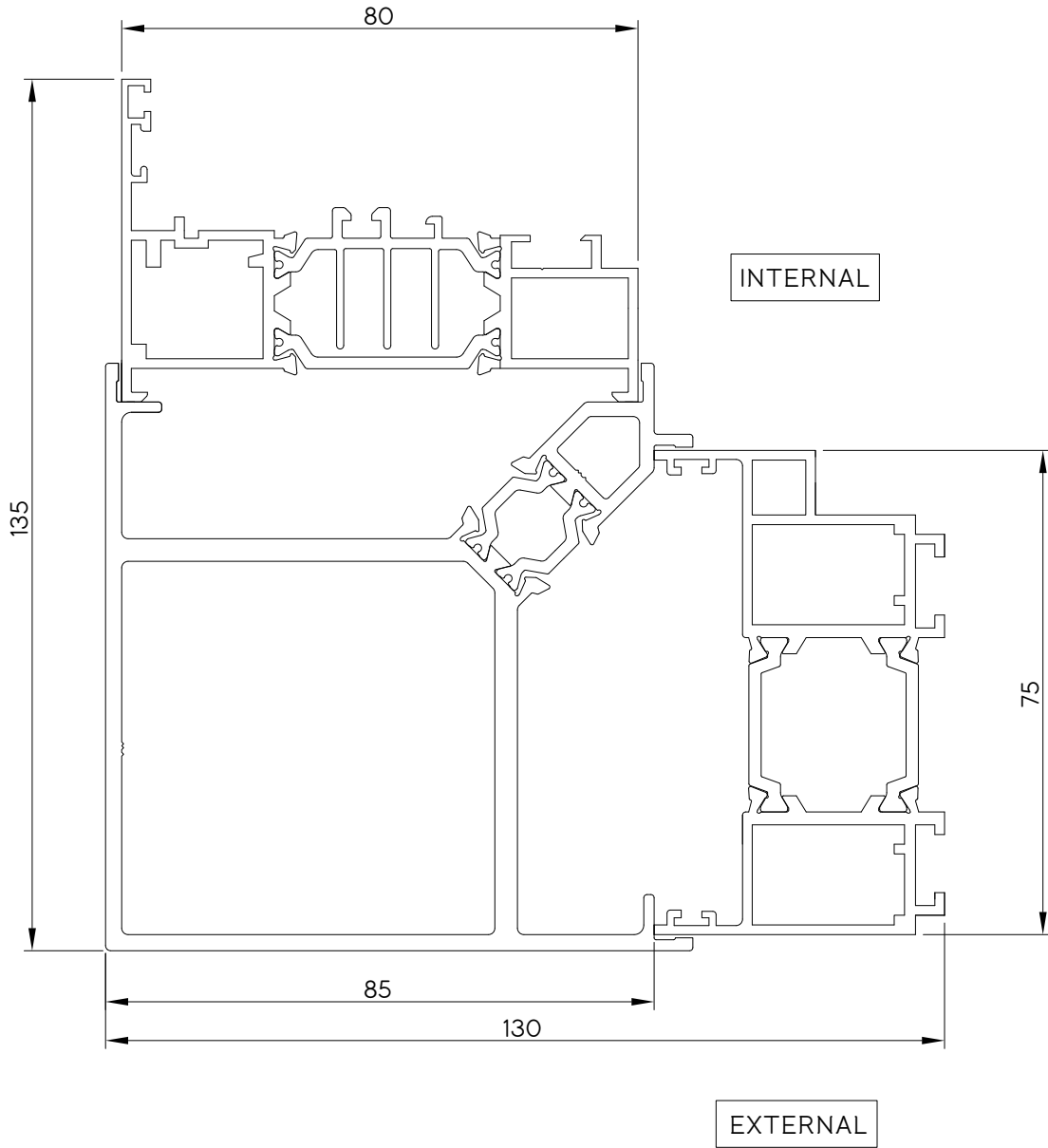
See p78 for install instructions



13 Window-to-Window Corner Post Detail

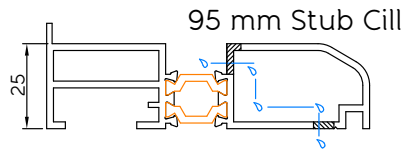


14 Window-to-Door Corner Post Detail

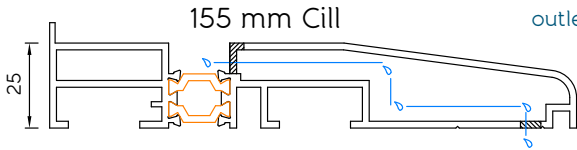


15

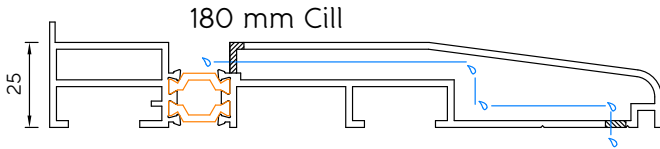
Cills



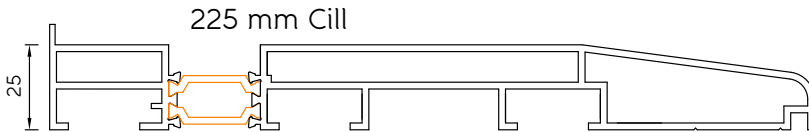
95 mm Stub Cill



155 mm Cill



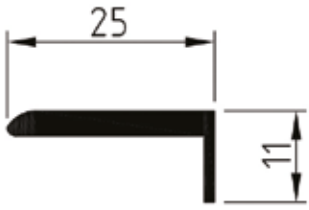
180 mm Cill



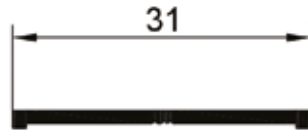
225 mm Cill

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.

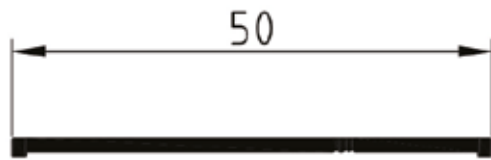
16 Trim Options



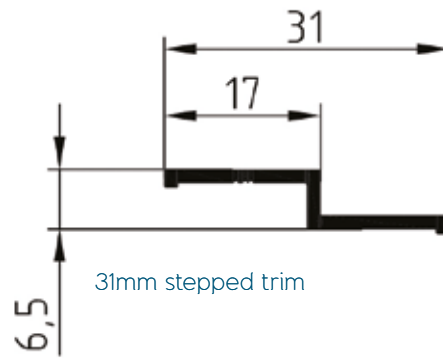
25mm trim



31mm flat trim



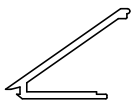
50mm flat trim



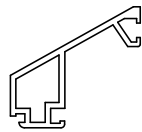
31mm stepped trim

17 Bead Options

28mm Sash Bead



28mm Frame Bead



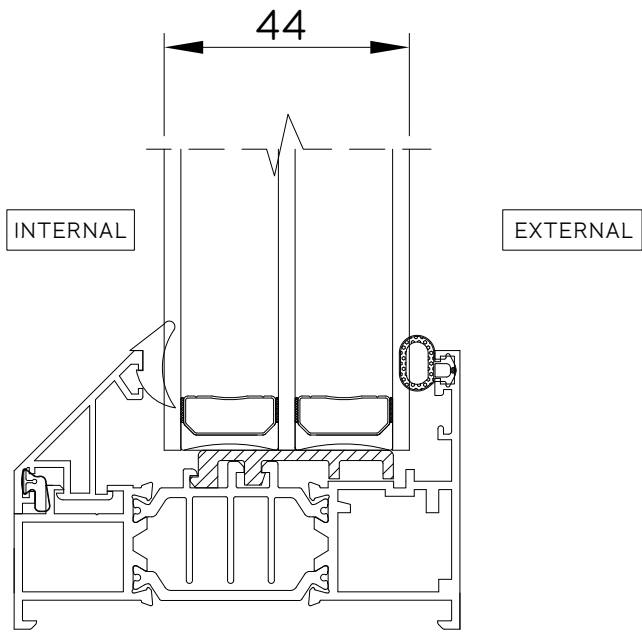
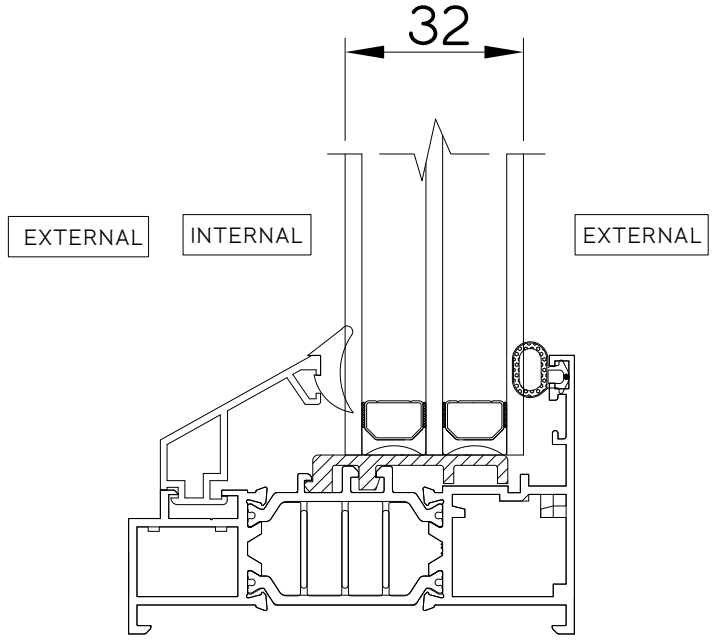
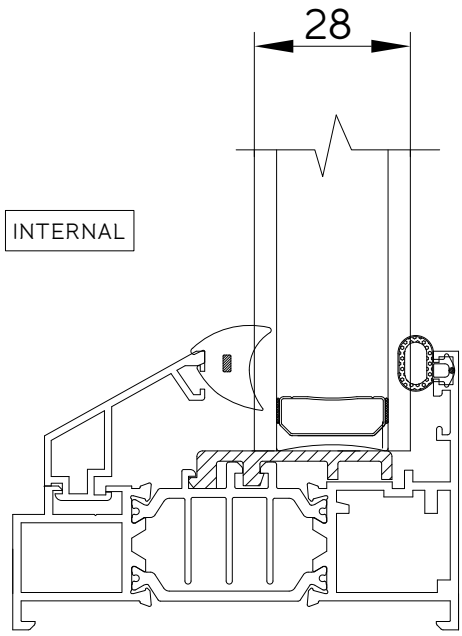
44mm Sash Bead



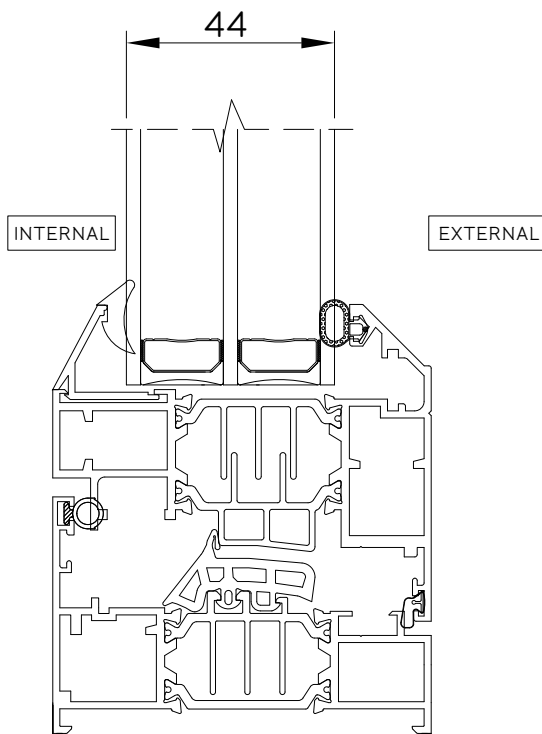
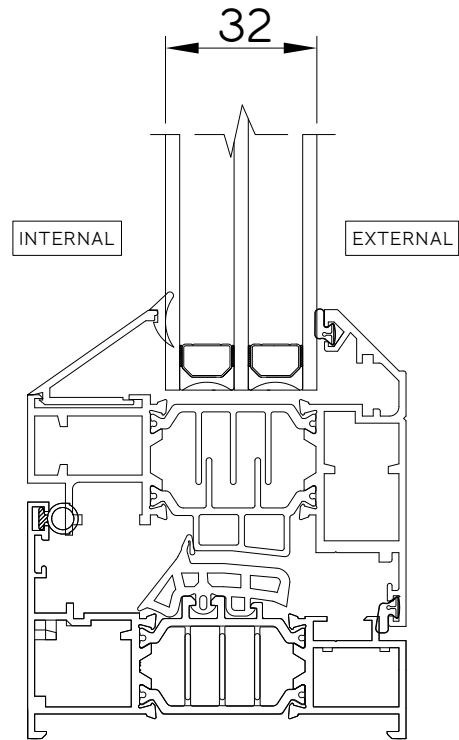
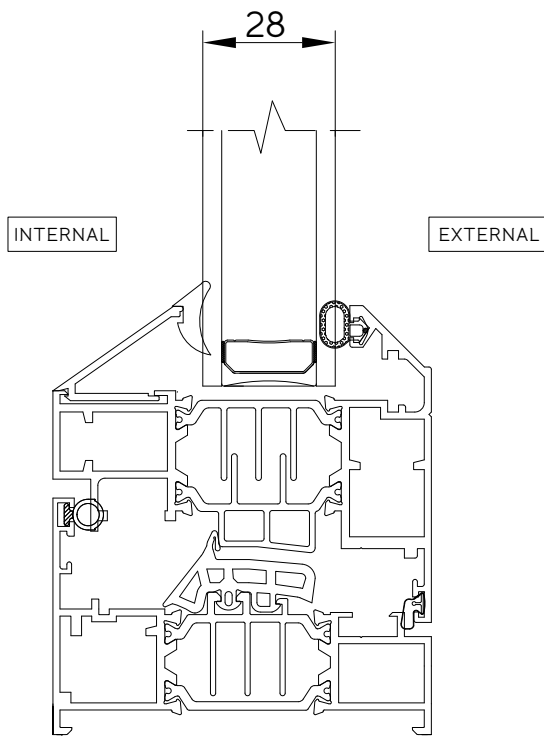
44mm Frame Bead



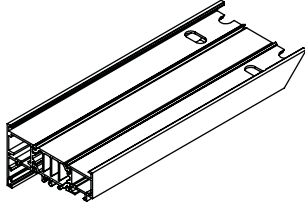
18a Fixed Frame Glazing Options



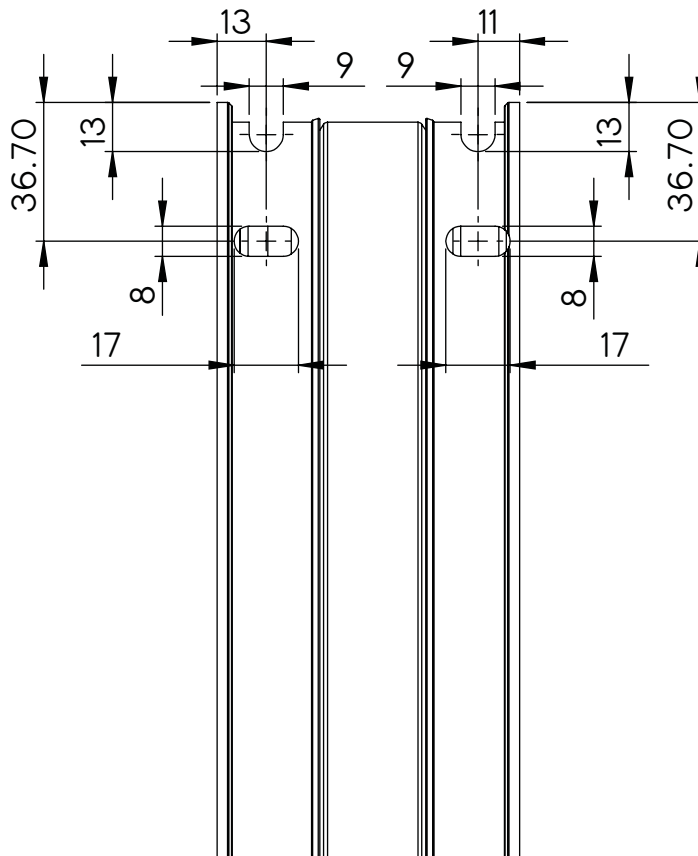
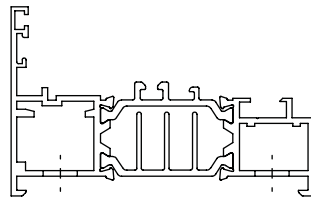
18b Casement Glazing Options



19 Mechanical Cleat Detail

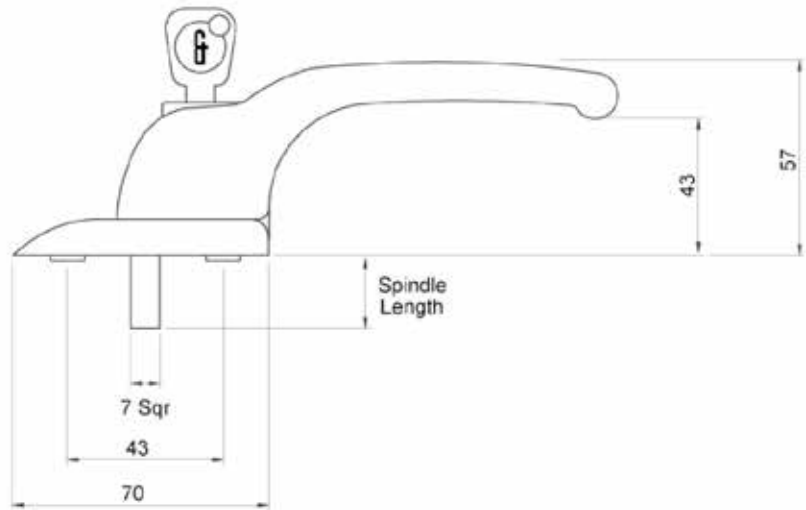
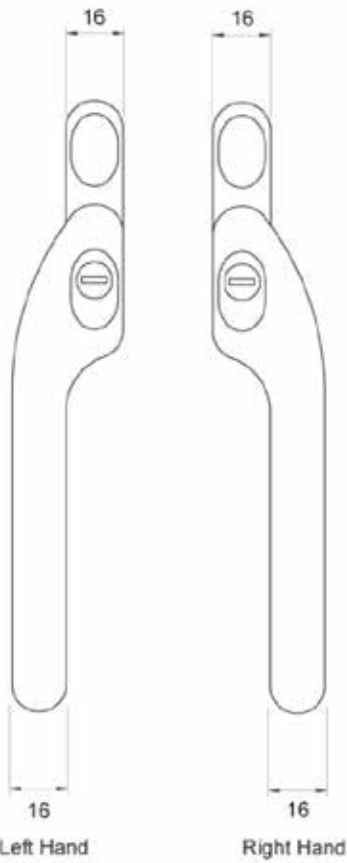


SCALE 1:5



Handles

Offset Handle (H004-H005)



Connoisseur Key



Front Cover Cap



Rear Cover Cap

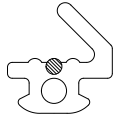


Screws x2

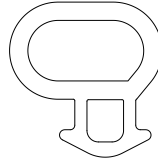


Gaskets

1. Closing Gasket AF032



2. Glazing Rebate B2018



3. Glazing Rebate E3434



5. Glazing Wedge W474



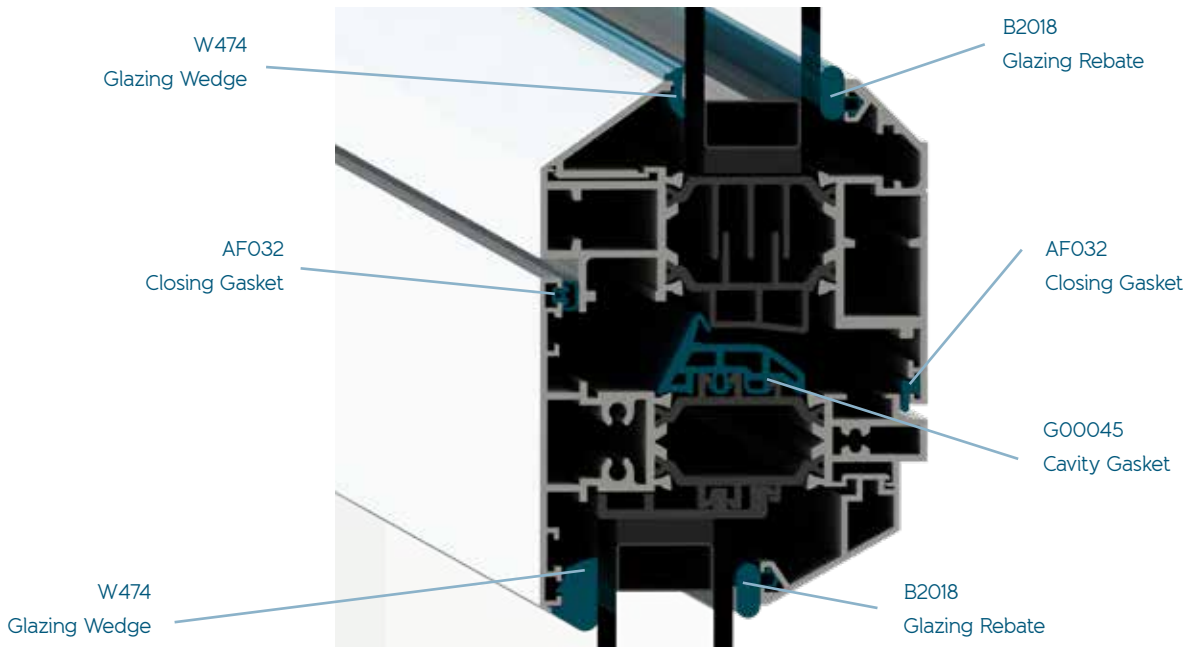
Colour	AF032 (Closing Gasket)	B2018 (Glazing Rebate)	E3434 (Glazing Rebate)	W474 (Glazing Wedge)	G00045 (Cavity Gasket)
Black	G00114	G00001	G00004	G00040	G00045
White		G00002	G00004	G00041	
Graphite Grey		G00064	G00066		
Light Oak		G00065	G00067	G00076	
Light Grey		G00089	G00071	G00075	
Bronze		G00090	G00072	G00077	
Chestnut Brown		G00091	G00073	G00078	
7015		G00092	G00074	G00068	
7016				G00061	

Cross Sectional Gasket Diagrams

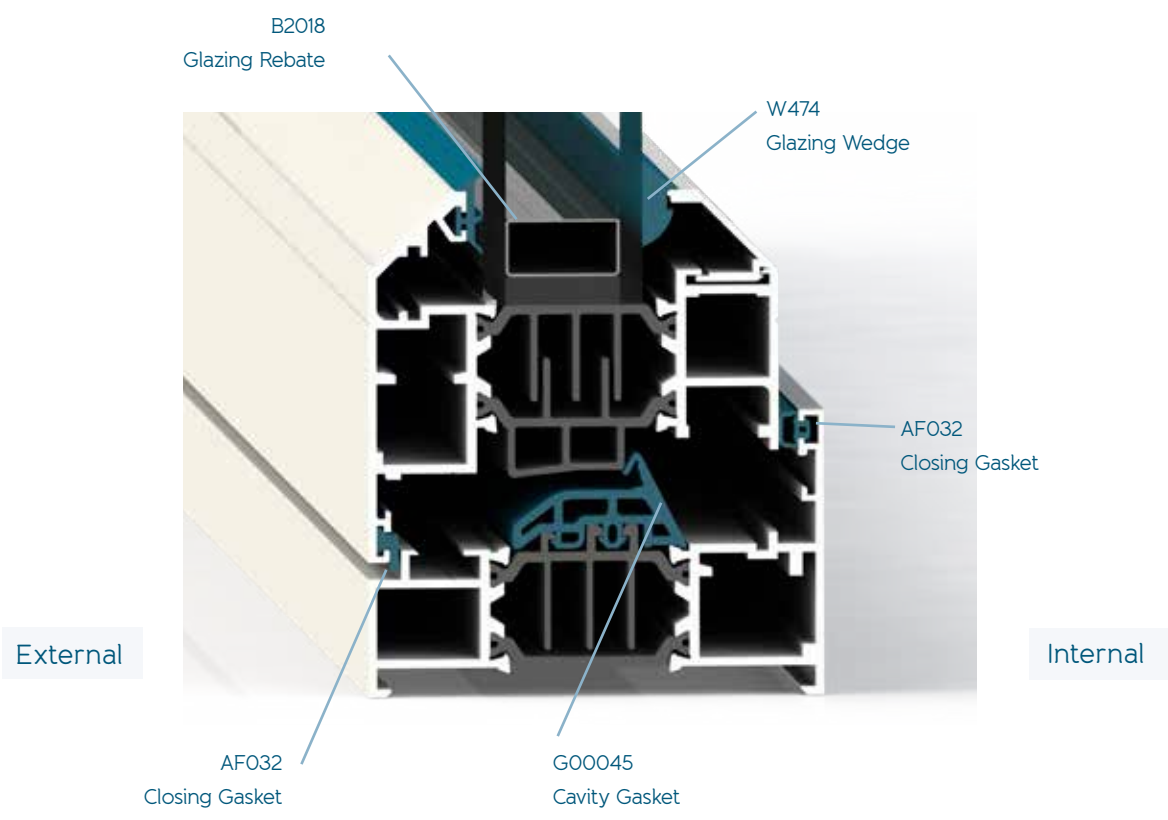
► Colour coded gaskets are available as an optional extra.

Internal

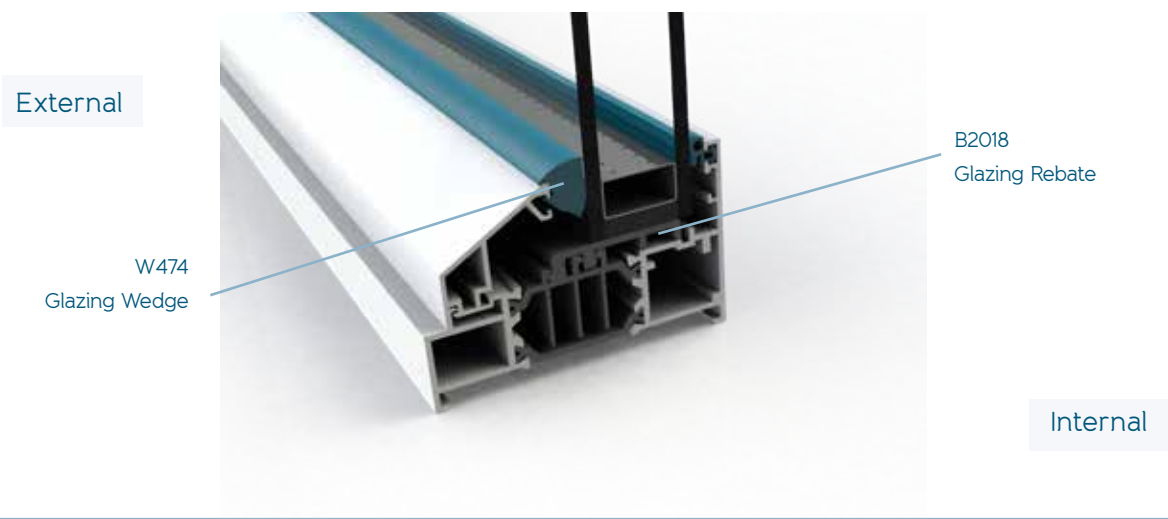
External



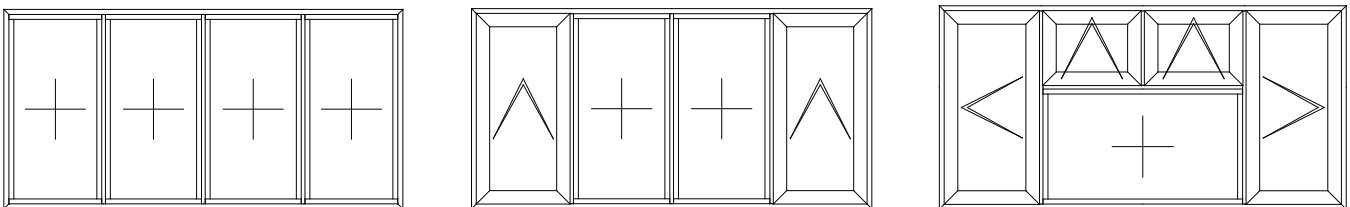
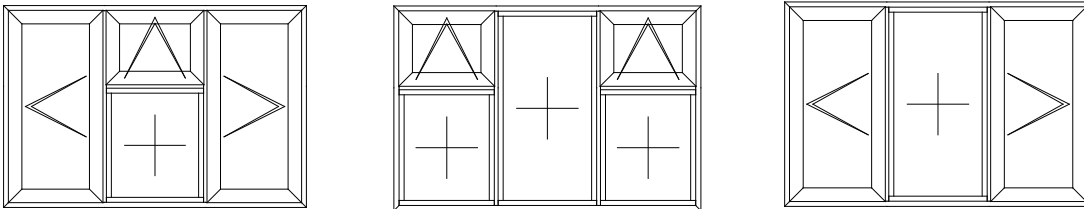
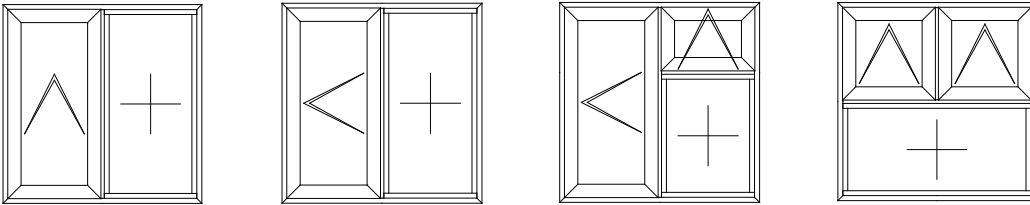
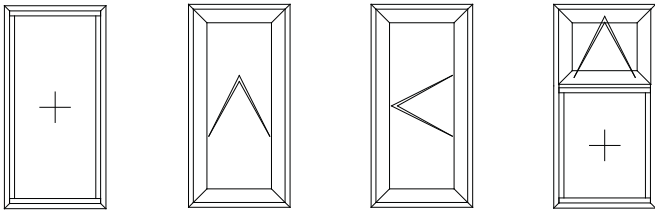
Cross Sectional Gasket Diagrams - Casement



Cross Sectional Gasket Diagrams - Fixed Frame

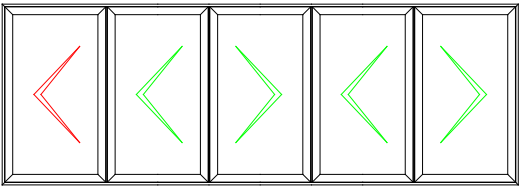
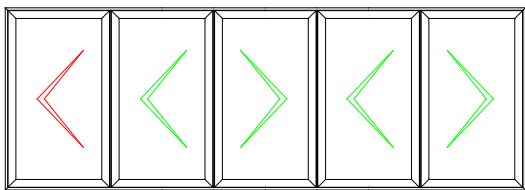
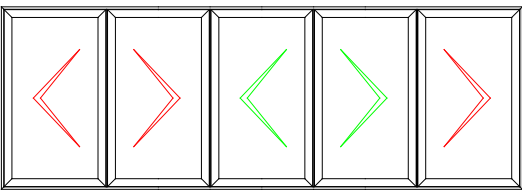
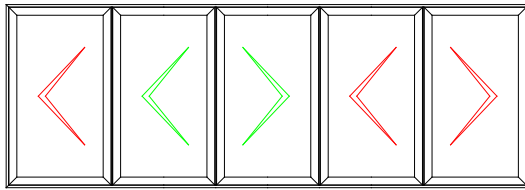
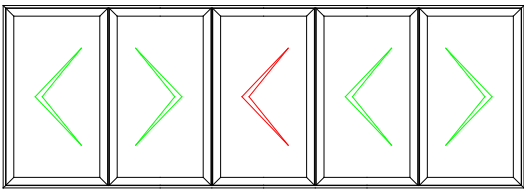
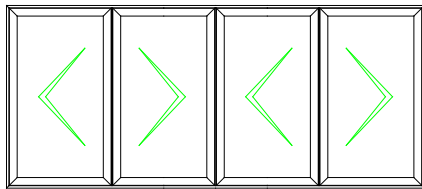
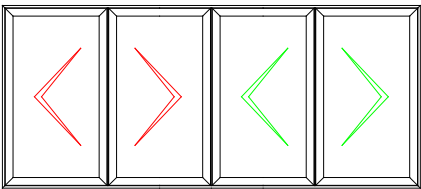
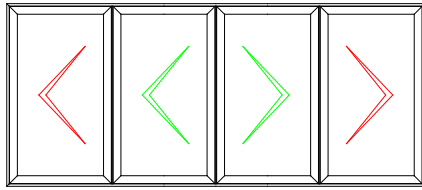
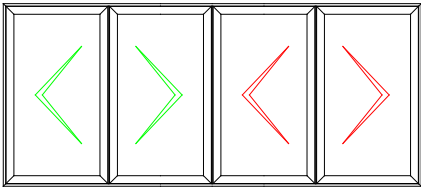
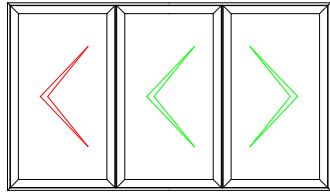
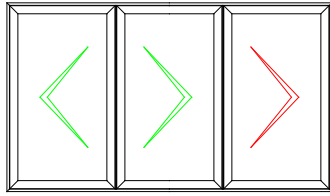
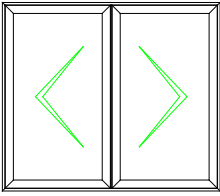


Popular Configurations

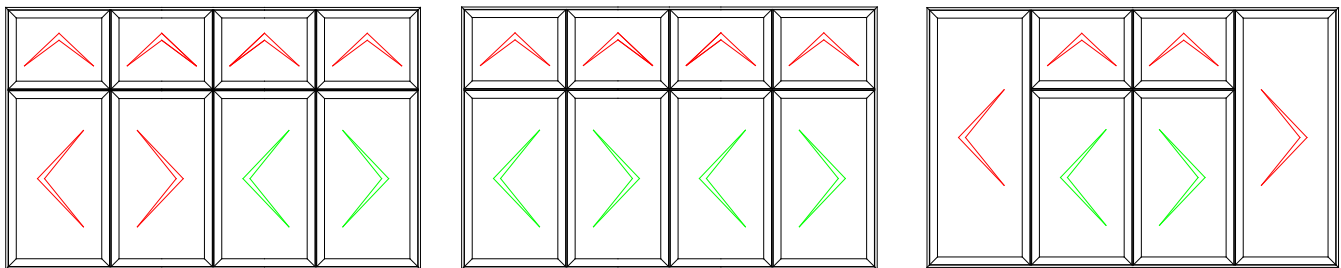
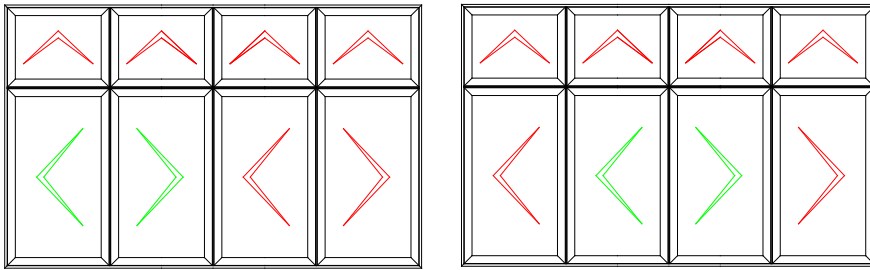
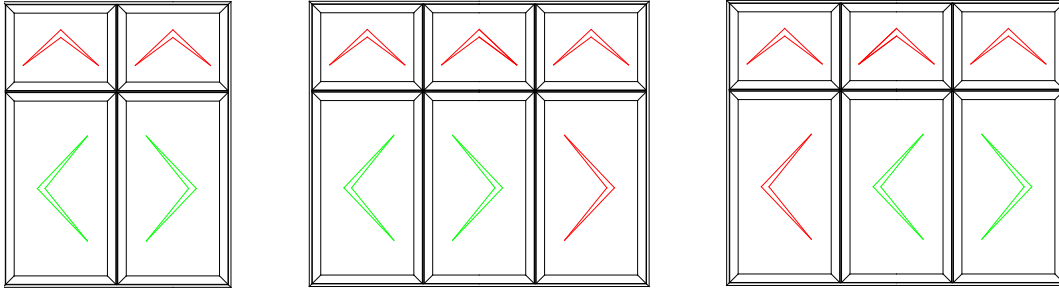


Key: + Fixed Frame or Dummy Sash \wedge Top Hung \lt Left Hung \gt Right Hung

French Window Configurations



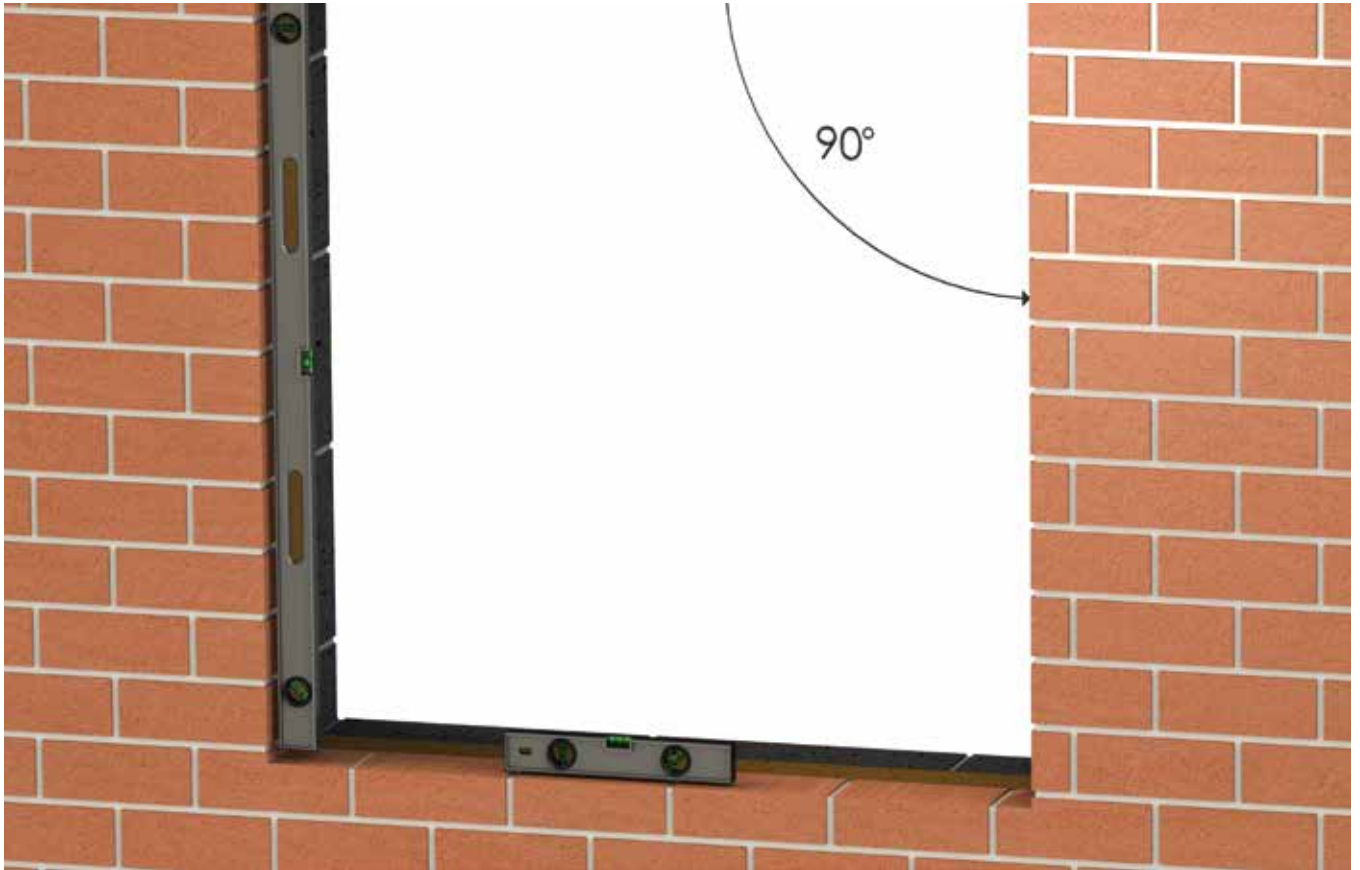
Popular Configurations



Key: < > French Window ^ Top Hung < Left Hung > Right Hung

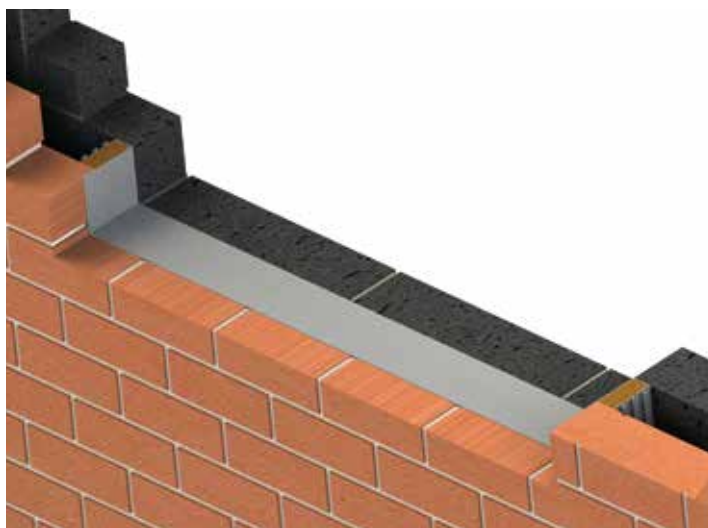
OW-80 Installation Guide

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



FIG 1

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)

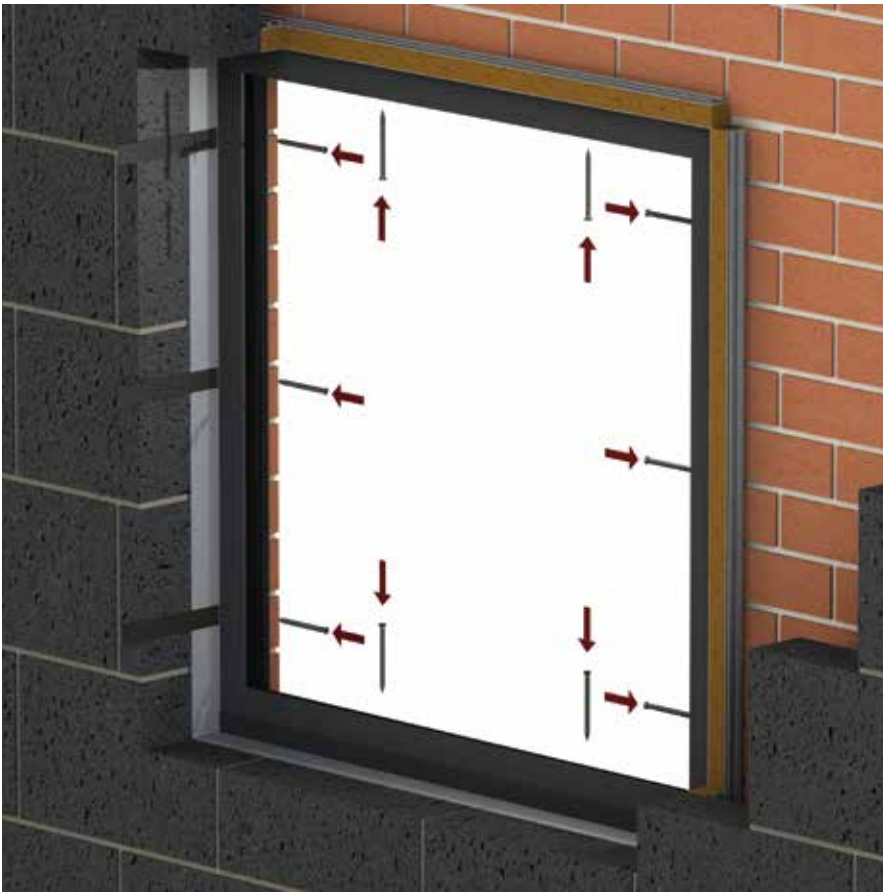


FIG 3

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.** Fixing Strap Screw Recommendations:

- 3.9mm minimum diameter
- 15mm max length for standard leg frame
- 35mm max length for long leg frame

▶ **1.8.** Secure the fixing strap into the rebate of the window with the screws provided.

▶ **1.9.** All four corners of the frame should be secured wherever practical.

▶ **1.10.** Fixing straps should be spaced a minimum of 150mm in from each end and at a maximum of 300mm apart.

2. Glazing



FIG 4

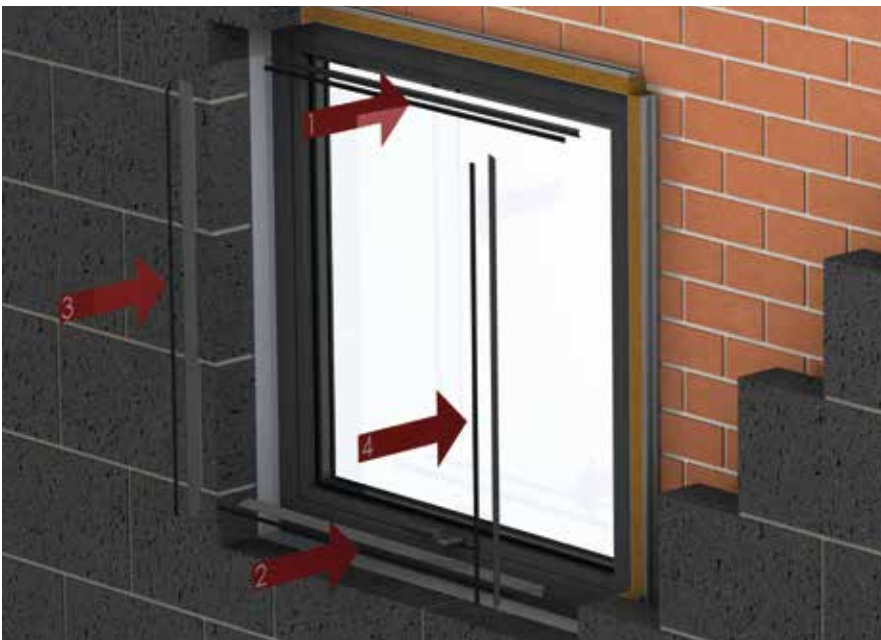


FIG 5

- ▶ **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)



FIG 6

- ▶ **3.1.** Wherever practical, gaps around the window should be filled with foam to stop air flow around the window and the surrounding aperture. (Fig.6)
- ▶ **3.2.** If required, use trim 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)

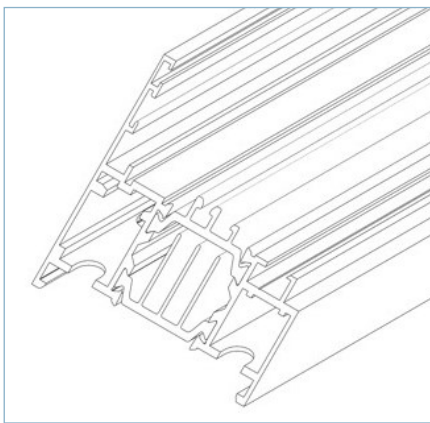


FIG 1

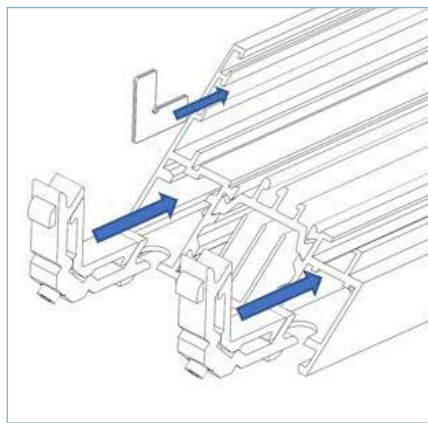


FIG 2

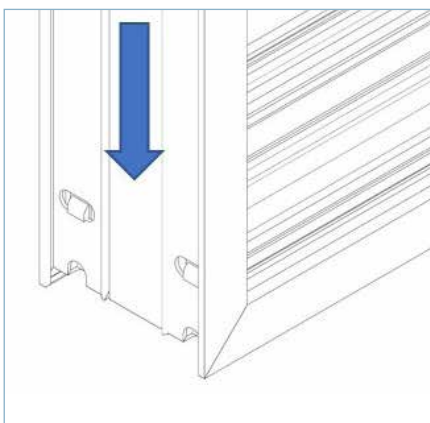
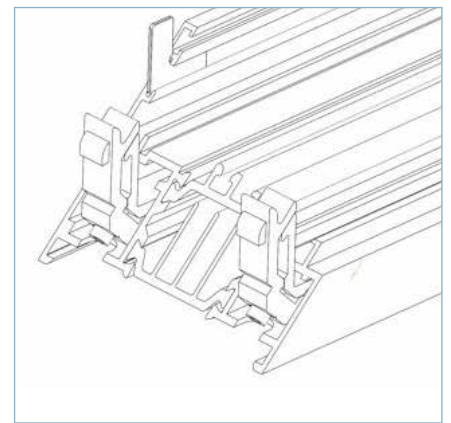


FIG 3

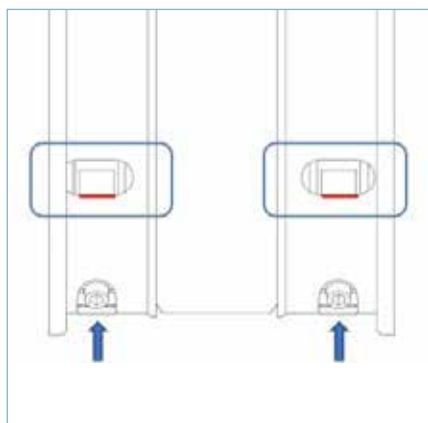


FIG 4

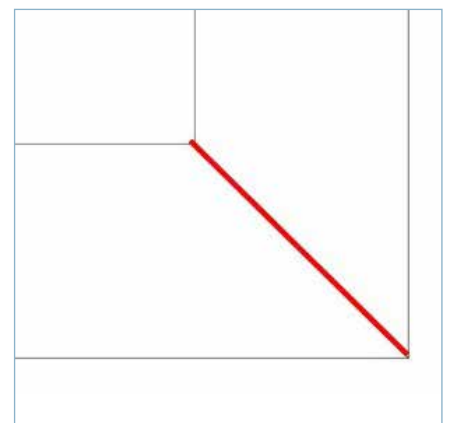
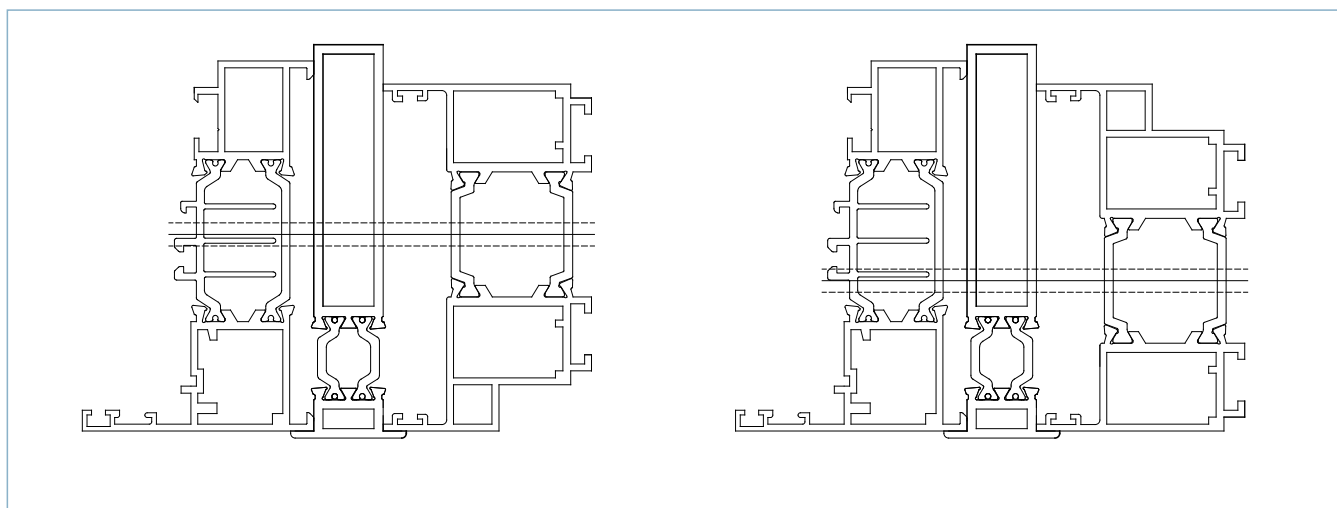
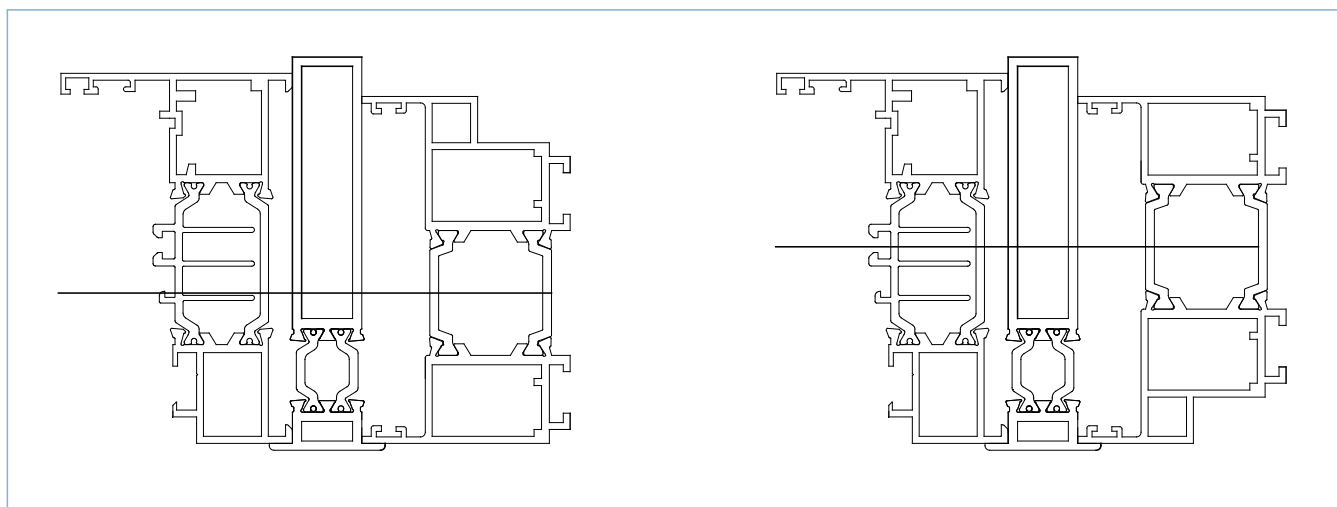


FIG 5

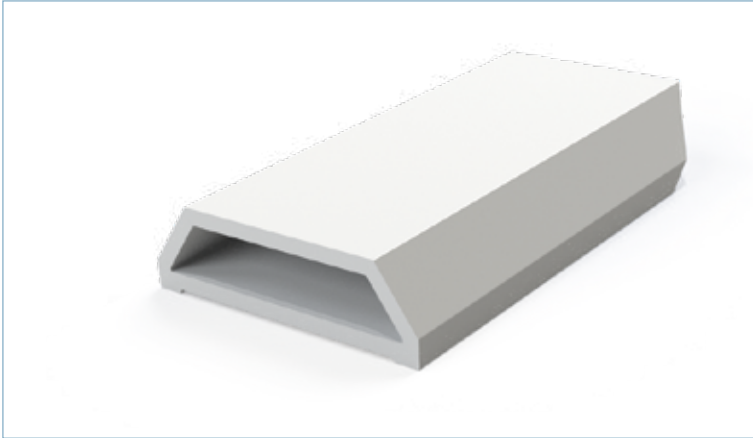
Door-to-Window Installation Guide

- ▶ The coupler is only to be used vertically. The maximum length of a coupler is 3000mm.
- ▶ Fixings are to be placed 150mm from the ends and at 400mm centres.
- ▶ Ensure you make the appropriate deductions to your products (a total of 15mm or 7.5mm on each product).



Door to OW-80 fixing positions

Glazing Bar Installation Guide

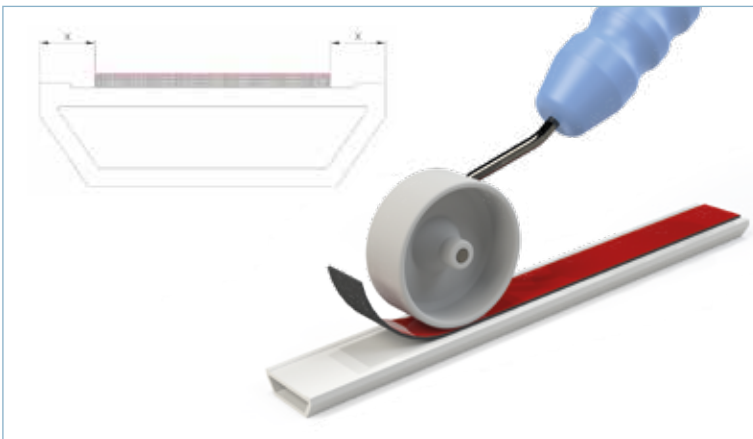


NB: The glazing bars are supplied as 10m bar lengths (2x5m) with 13m tape. The tape will need to be bonded to the lengths of the bar.

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

2. 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.



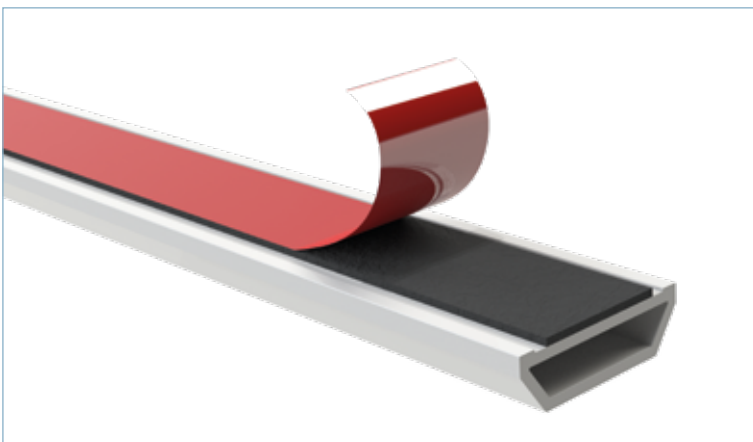
3. Clean the underside of the glazing bar using a saline solution or primer.

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

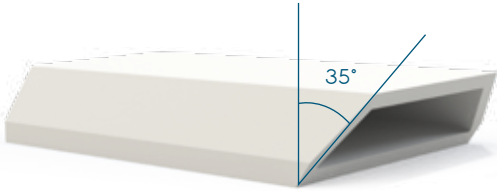
5. Before removing red backing, offer the bars up to the glass and check for size, trim as required.

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

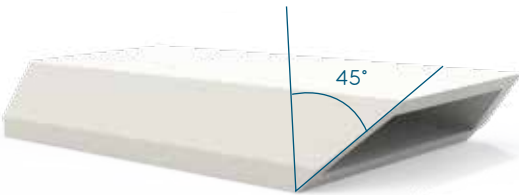
Note: deductions are all approximate and are given as a guideline. Final trimming should ensure a snug fit.



Glazing Bar Window Offsets

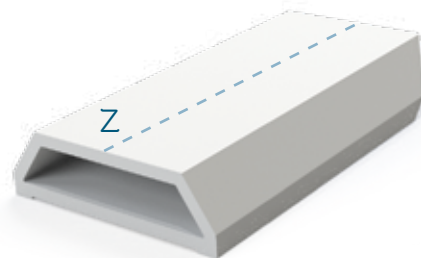
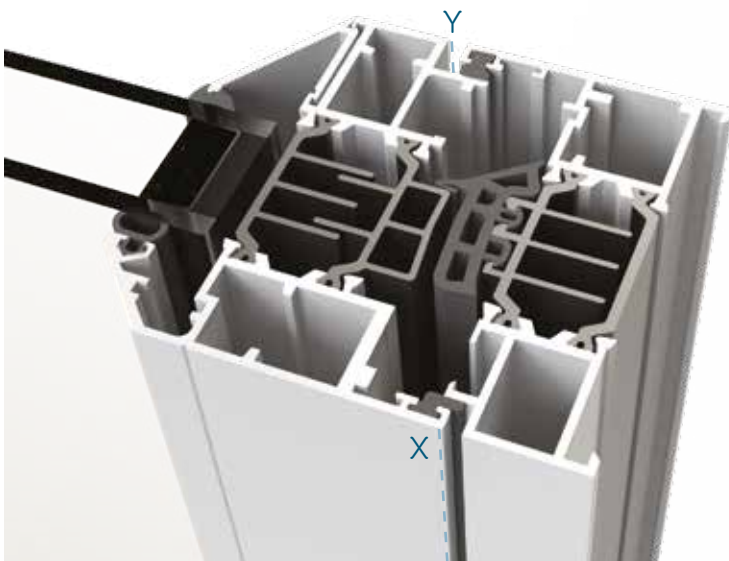
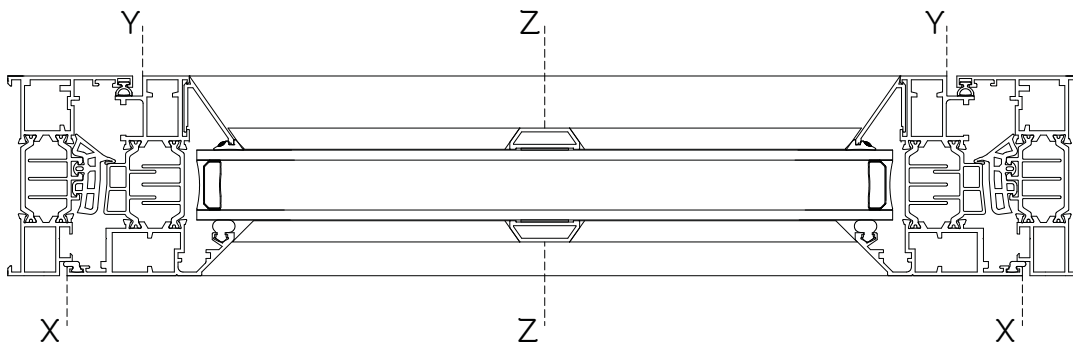


Full lengths	Cut Angle	Approximate Deduction
Sash Rebate to Sash Rebate	45°	X to X - 134mm
28mm Bead	35°	X to X - 138mm
44mm Bead	45°	X to X - 135mm



Crossover	Cut Angle	Approximate Deduction
Bar to Bar	35°	Z to Z - 25mm
Rebate to Bar	45° + 35°	X to Z - 81mm
28mm Bead to Bar	45°	Y to Z - 150mm
44mm Bead to Bar	45° + 35°	Y to Z - 149mm

(X to Y dimension = 30mm)



Accreditations...

At Origin, we pride ourselves on providing best quality products backed by best levels of service and efficiency. Put simply, our aim is to continuously learn, evolve and improve.

We are well known for having rigorously high standards in everything that we do. We're also known for innovation, but we never want to settle: if there's a way that we could do something better, we will find it.

This ethos has been instilled throughout Origin. Whether it's a process, product offering or even the company's sustainability, we have created a culture that encourages continuous improvement.

To demonstrate our commitment and as a way of measuring our performance, we work towards gaining certain prestigious accreditations. Our achievements show a strong moral and ethical intent in how we operate and how we try to do things the best way, not because we are told to do so, but because we think it is the right thing to do.

ISO 9001 – Quality Management...

ISO 9001 is an international standard that assesses a company's quality management system. Having first achieved it in 2013, the fact that we still are certified means that we have a track record of consistently providing products and services that meet both customer and regulatory requirements.

It's something that we take very seriously and its influence is integrated into every process.

Key areas of this include:

Product quality – To ensure a product's overall manufacture is flawless, we have checks in place to guarantee you the best quality. A few examples are:

- Supply chain – an inspection at the point of delivery and before going into manufacturing. If anything is spotted, it's documented and raised with the supplier.
- Production – there are quality checks at every station, not only to look over the previous person's work, but to review the quality of the overall build.
- Equipment – a robust maintenance schedule for machinery and equipment ensures consistency.
- Pre-delivery – before it is packaged and loaded ready for delivery, there's another thorough check to ensure nothing's happened whilst being moved from station to station.
- Feedback – as part of our mission to always innovate, whether it's from internal or external stakeholders, feedback is imperative. We are very proactive at bringing this type of information back into the business and learning, as it gives us an opportunity to improve.

Accreditations

- Training and development for our employees – meaning we're better at understanding the good, the bad, and what we can do better.



ISO 45001 – Health & Safety Management...

Whether it's through improving homes with our products, or in our workplace, people are at the heart of everything that we do at Origin, so we are very proud to have achieved a triple badge accreditation when we received our latest accolade - ISO 45001.

ISO 45001 recognises our commitment to employee safety, and reduces workplace risks to create a better, safer working condition. We have spent time reviewing all the activities that go on within the offices, manufacturing centres and warehouses, and have created a full risk log which will link up to our current risk assessments. These are fed back so they can be actioned to be rectified or developed into an improved method of operating.

This means that you can buy from our range safe in the knowledge that we are minimising risks as much as we can for optimum safety.



ISO 14001 – Environmental Management...

Now more than ever, we need to be aware of the impact our operations may have on our environment; the legal obligations we must adhere to, and ensuring we are doing things the right way.

The internationally renowned ISO 14001 accreditation measures the environmental management system that we have in place. It's a subject that's very close to our hearts, which is why working towards this standard was an easy decision.

We care about the resources we use for our products – where they come from and where they end up. To add to this, we aim to be zero waste to landfill and have already put into place many positive changes to make this happen. We want our customers to buy from us with a clear conscience and feel that ISO 14001 can prove that Origin is taking responsibility, acting ethically, legally and exercising best practice in all that we do. Our environmental management system covers:

- Waste management and energy targets – to reduce our consumption and impact on the environment
Helpful hints, tips and reminders are prompted to all staff regularly, so that they can join us in our goal and see how small changes to their work practices can have a big impact.
- Product design and lifecycle – recyclability and sustainability are a design priority for us.
- Supply chain – choosing suppliers that are aligned with our ethos and vision. This is applicable not only when bringing on new suppliers, but also working with existing ones to better their carbon footprint – whether that's minimising packaging, reusing or even our drivers picking up the materials on their routes, rather than a supplier sending their own fleet, we are constantly reviewing how we can improve.



Secured by Design...

Secured by Design (SBD) is a national, police-backed standard, associated with security and levels of performance for weather, operation and quality on domestic properties. The flagship UK police initiative was originally introduced to help 'design out' crime through the use of high-quality, innovative products and market-leading processes.

It recognises that our doors and windows have not only been tested to the required security standards, but that they also adhere to the rigorous test standards required by the police.

This independent certification involves initial testing of the products and regular re-tests, as well as inspections of our manufacturing and production facilities, to ensure the correct processes are maintained constantly over time, providing more secure and reliable products.

In order to be able to apply, we first needed to achieve:

1. PAS 24 (Enhanced Security)
2. BS EN 6375 Part 1 (Weathertightness)
3. BS EN 6375 Part 2 (Operational and Strength Characteristics)
4. BS EN 6375 Part 3 (Basic Security)
5. ISO 9001 (Quality Management)

We're proud to say that our products passed every one and SBD, so you can feel secure by choosing Origin.



PAS 24: 2016...

This is your guarantee that the door sets and windows that we manufacture deliver the right level of security for the buildings they are intended to be part of.

Like most British Standards, PAS 24: 2016 is a minimum standard, and it is either a pass or fail test. There isn't a performance scale for those that are more or less secure, so some of the products that pass will be stronger than the minimum requirement. That's why we have become Secured by Design accredited. Because it's a voluntary scheme, we feel it demonstrates our commitment to the security and overall performance of our products.

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