



origin

DOORS AND WINDOWS

# Slimline Window (OW-70) Specification Guide

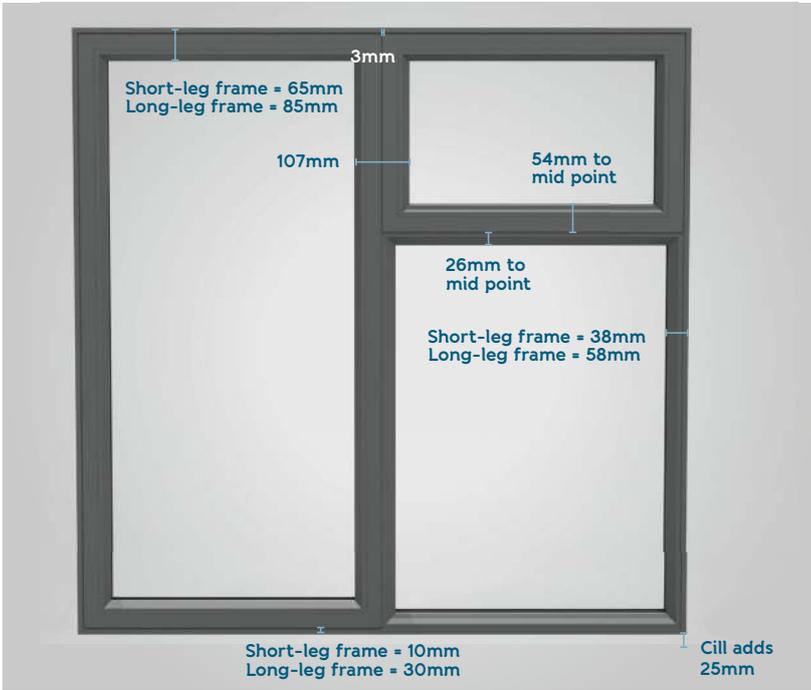


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# Specification Overview

## Thermally Broken Aluminium Window



External view of the OW-70



Internal view of the OW-70

## Profile Specification

	Short-leg Frame	Long-leg Frame
Outer Frame Depth	70mm	70mm
Sash Depth	64mm	64mm
Frame and Sash Sightline	65mm	85mm
Mullion and Sash Sightline	80mm	80mm

## Features

- ▶ Up to a 20-year guarantee\*
- ▶ External flush casement. The sash closes into the frame, sitting in line with the outside of the window
- ▶ Chamfered or square bead
- ▶ Mechanically double crimped corners
- ▶ Nemesis espag locking mechanism
- ▶ Night vent function

## Options and extras

- ▶ Casement, bay and fixed configurations available
- ▶ Accommodates double and triple glazing, with a unit size of 28mm
- ▶ Open-out or fixed
- ▶ Cill options available: 95, 155, 180 and 225mm (see page 42)
- ▶ Available in over 150 different RAL colours
- ▶ Colour-coded gaskets are available as an option
- ▶ Metallic or colour-coded handles
- ▶ Fixing strap option (see page 48)\*\*
- ▶ 35mm frame extender
- ▶ Restrictor hook option
- ▶ Egress hardware
- ▶ Door-to-window and window-to-window coupling available
- ▶ 2500EA, 4000EA and 5000EA trickle vent available
- ▶ Marine finish option

\*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](http://origin-global.com/terms-and-conditions).

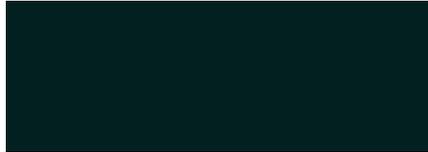
\*\*When selected as an optional extra on OSS, fixing straps will be delivered in the components box.

## Specification Overview

The OW-70 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 1-week.



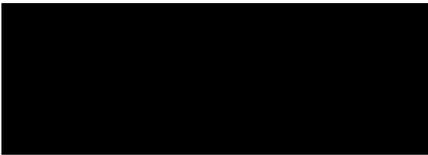
Hipca White (9910G)



Anthracite Grey (7016M)



Slate Grey (7015M)



Jet Black (9005M)



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

### Lead Times

Popular colour casement:	24-hours
Special colour casement:	3-weeks

For the full range of colours and most up to date lead times, visit [origin-global.com](http://origin-global.com)

## Even the gasket colour is your choice



The following are also available:



## 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-70 Security Features



The OW-70 is PAS 24:2016 certified and Secured by Design Accredited.

The hinge guards feature anti-slip and lock technology, and are fitted as standard along the hinged side of the window.

The bespoke Nemesis lock, which sits inside the sash, features a robust offset handed die-cast gearbox and bi-directional twin cam locking. It also incorporates stainless steel faceplate drive bars and mushroom cams to enhance both its appearance and longevity.

*For more information on Secured by Design, please see page 72.*

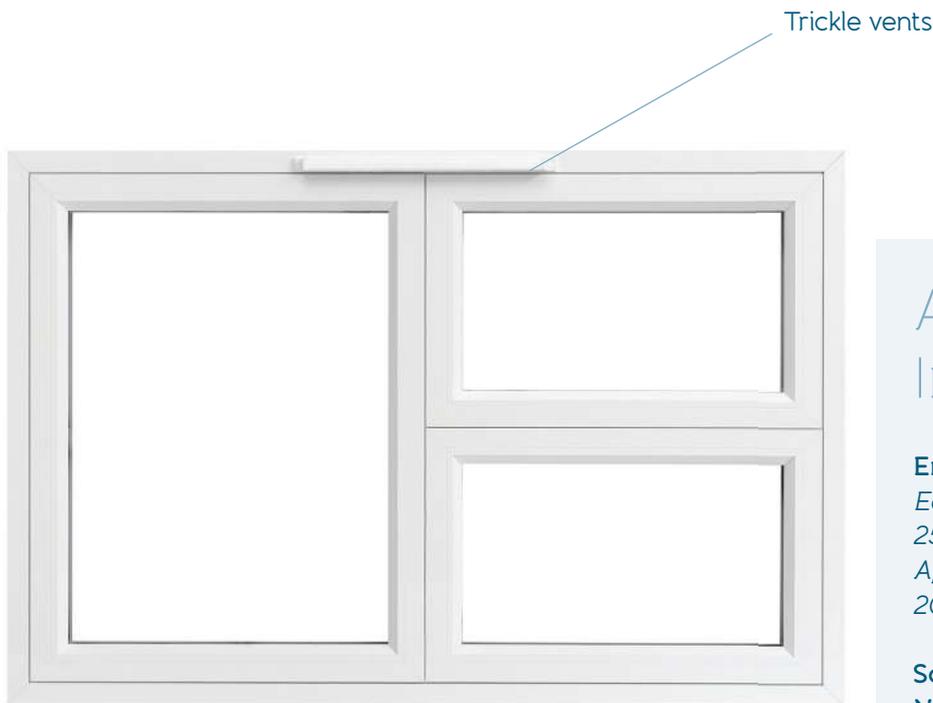


# Optional Extras

## Trickle Vents

Trickle vents can be fitted through the long-leg frame or through a 35mm frame extender.\*

See page 34 for cross-section drawings.



### Additional Information

**England and Wales:**

*Equivalent Air Rates of 2500EA 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

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



## Optional Extras

### Cills

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



95mm cill



155mm cill



180mm cill



225mm cill

### Handles

The inline window handle is available in six metallic finishes or you can opt for a colour-coded offset handle.

#### Inline handle range



Brushed  
(H-094)



Satin  
(H-094)



Anthracite Grey  
(H-094)



Chrome  
(H-094)



Silver  
(H-094)



Gold  
(H-094)

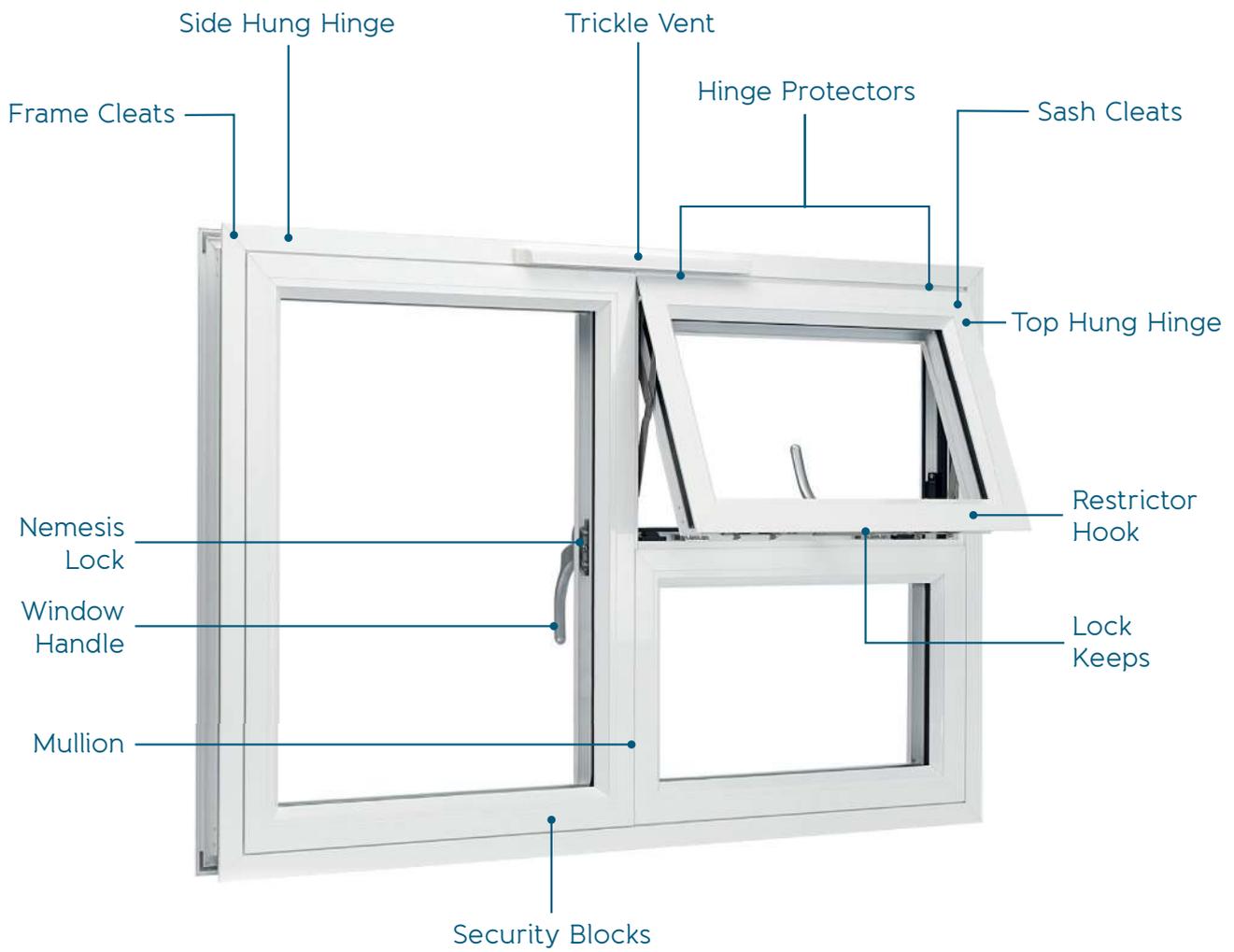
#### Offset colour-matched handle range

For an integrated or contrasting look to your windows, the offset handle is available in any RAL colour.



\*Minimum sash width applies.

# Window Make-Up



# Size Limitations

## Size and Weight Limitations

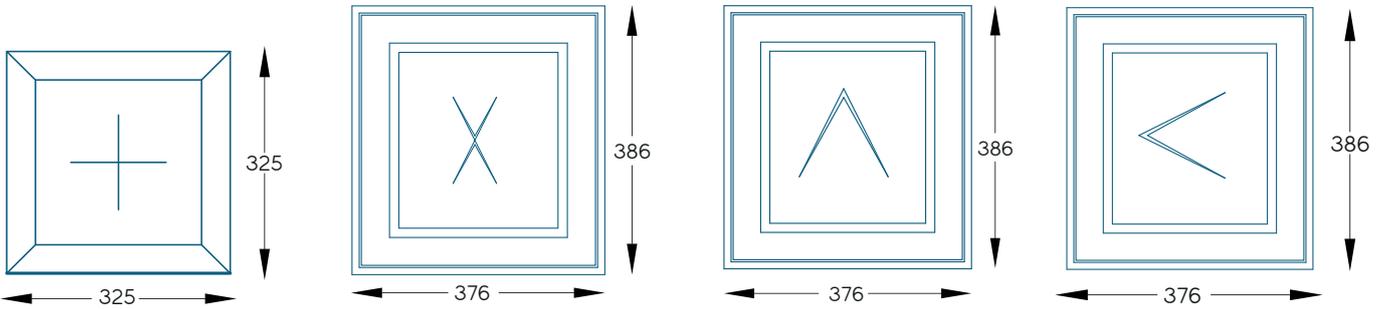
	Width	Height	Weight
Minimum Dimensions:			
Fixed frame	325mm	325mm	
Dummy sash	376mm	386mm	
Top hung	376mm	386mm	
Side hung	326mm	386mm	
Maximum Dimensions:			
Fixed frame	4.8m <sup>2</sup> total		
Dummy sash	4.8m <sup>2</sup> total		50kg*
Top hung	1,399mm	1,524mm	50kg*
Side hung	975mm	1,450mm	40kg*

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 or please refer to OSS.



## Size Limitations

### Minimum Frame Dimensions



Fixed frame

Min height = 325mm\*  
Min width = 325mm\*\*

Dummy sash

Min height = 386mm\*  
Min width = 376mm\*\*

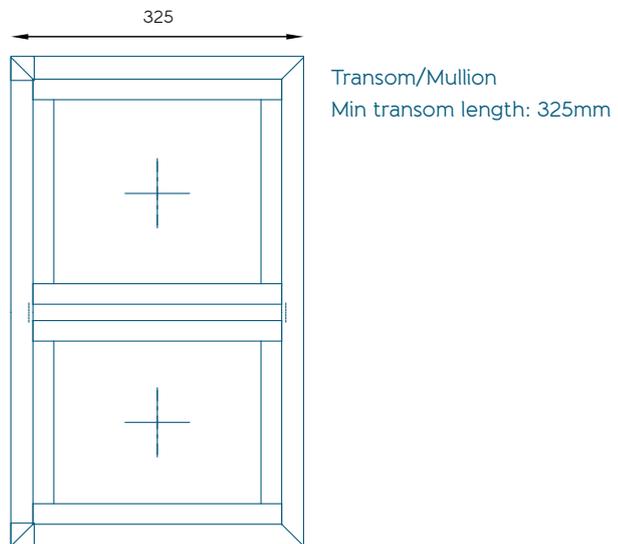
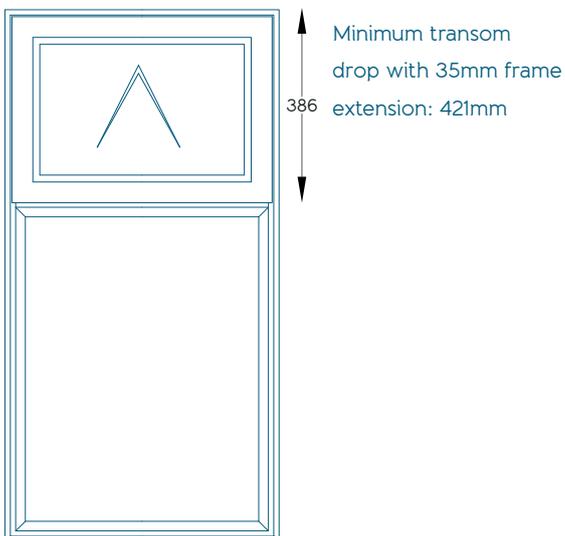
Top hung

Min height = 386mm\*  
Min width = 376mm\*\*

Side hung

Min height = 386mm\*  
Min width = 326mm\*\*

### Minimum Transom Drop



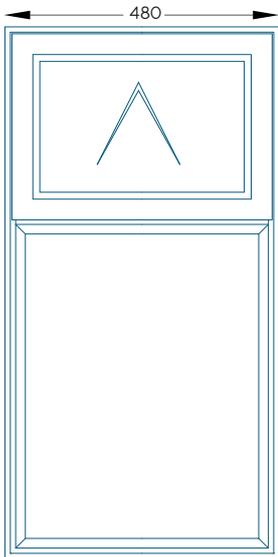
\*Minimum height will be greater with a cill.

\*\*Minimum width will be greater with a frame extension.

\*\*\*Max weight refers to the maximum glazed sash weight.

## Size Limitations

### Minimum Frame Width With Trickle Vent



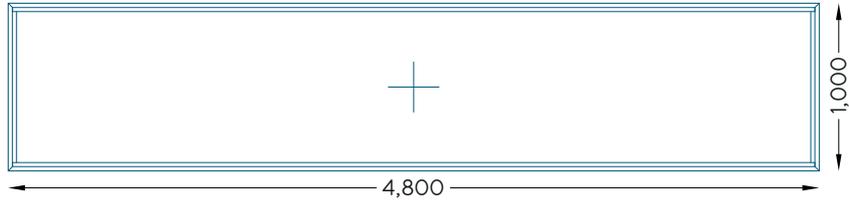
The minimum width for a 2500EA trickle vent to go through a 35mm add-on is 400mm.\*

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

## Fixed Frame Maximum Dimensions

Maximum area = 4.8m<sup>2</sup>  
Maximum height / width = 4.8m

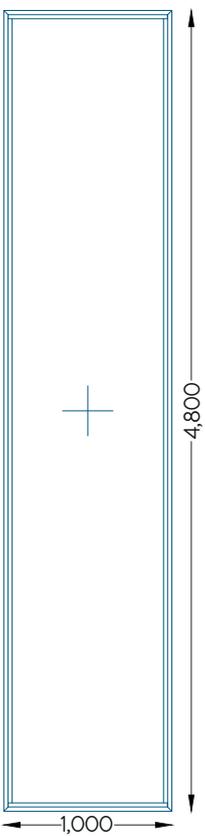
Example 1



Maximum fixed width and area

Maximum area = 4,800mm x 1,000mm = 4.8m<sup>2</sup>  
Maximum width = 4,800mm

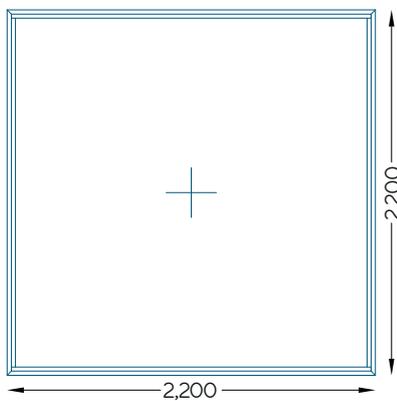
Example 2



Maximum fixed height and area

Maximum area = 4,800mm x 1,000mm  
= 4.8m<sup>2</sup>  
Maximum height = 4,800mm

Example 3



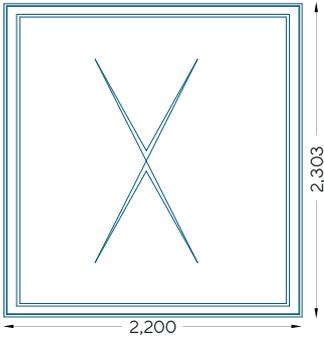
Maximum fixed area

Maximum area = 2,200mm x 2,200mm  
= approx 4.8m<sup>2</sup>

Fixed windows over 4.8m<sup>2</sup> cannot be coupled using Origin couplers.

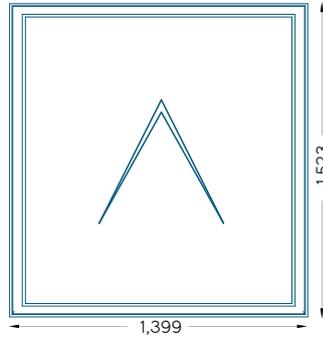
## Size Limitations

### Maximum Frame Dimensions



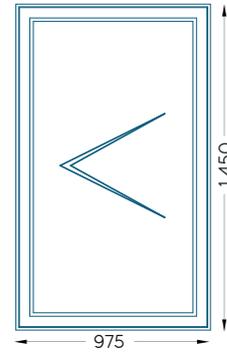
Dummy sash

Max Width = 2,200mm (max height = 2,303mm)  
 Max Height = 2,303mm (max width = 2,200mm)  
 Max area - 4.8sqm  
 Maximum glazed sash weight = 50kg\*\*\*



Top hung

Max height = 1,524mm  
 Max width = 1,399mm  
 Maximum glazed sash weight = 50kg\*\*\*



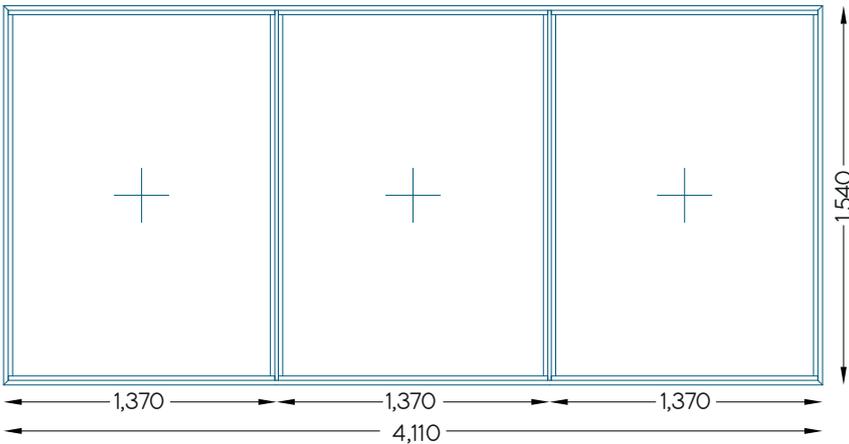
Side hung

Max height = 1,450mm  
 Max width = 975mm  
 Maximum glazed sash weight = 28kg\*\*\*

### Maximum Mullion/ Transom Length

Maximum glazed area next to mullion or transom:  
 = 2.055m<sup>2</sup> Maximum height: = 1,540mm

Example 1



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

*The above sizes are based on Long-leg frame and a wind loading of 1600pa.*

# Performance and Limitations

## Origin Thermal Ratings

## U-Value

OW-70 Short Leg, Double Glazed	1.4 W/m <sup>2</sup> K ●
OW-70 Short Leg, Triple Glazed	1.2 W/m <sup>2</sup> K
OW-70 Long Leg, Double Glazed	1.4 W/m <sup>2</sup> K ●
OW-70 Long Leg, Triple Glazed	1.2 W/m <sup>2</sup> K

## Glazing

## U-Value

1.2 centre pane	1.5 W/m <sup>2</sup> K
1.1 centre pane	1.4 W/m <sup>2</sup> K ●
0.8 centre pane	1.2 W/m <sup>2</sup> K

- Minimum value for compliance with Building Regulations Part L for replacements

## Weather Rating

## Performance

Air Permeability	Class 4
Resistance to Window Load	Class A5
Water Tightness	Class 9A

## Performance Testing

PAS 24:2016 Certified (Document Q Compliant)

Secured by Design accredited

**OW70**

# Certificate of thermal simulation

PRODUCT:	OW70 Casement Window (Standard Frame)
SIM - SOFTWARE:	Physibel Building Physics Software - BISCO 2D
GLASS CENTRE PANE U/VALUE	1.1 W/m <sup>2</sup> K
INSULATION	NONE

Thermal Transmittance (U- Value):  
**1.4 W/(m<sup>2</sup>K)**

*All thermal simulations carried out in accordance with:  
BS EN ISO 10077 - 2: 2017, Thermal Performance of windows, doors and shutters – calculation of thermal transmittance.*

TESTED BY: David Ginger (Product Compliance Director)  
DATE: May 2022  
SIGNED: *D. Ginger*

Email: [enquiry@origin-global.com](mailto:enquiry@origin-global.com) | Web: [www.origin-global.com](http://www.origin-global.com)  
Origin Global HQ, Stuart House, Castle Estate, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA  
OFDLJ8149.3



**OW70**

# Certificate of thermal simulation

PRODUCT:	OW70 Casement Window (Long Leg Frame)
SIM - SOFTWARE:	Physibel Building Physics Software - BISCO 2D
GLASS CENTRE PANE U/VALUE	1.1 W/m2K
INSULATION	Outer Frame EPS Thermal Insulation

Thermal Transmittance (U- Value):  
**1.4 W/(m2K)**

*All thermal simulations carried out in accordance with:  
BS EN ISO 10077 - 2: 2017, Thermal Performance of windows, doors and shutters – calculation of thermal transmittance.*

TESTED BY: David Ginger (Product Compliance Director)  
DATE: May 2022  
SIGNED: *D. Ginger*

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Origin Global HQ, Stuart House, Castle Estate, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA  
OFDLJ8149.3



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DOORS AND WINDOWS

## Building Regulation Requirements

New Build	
Limiting Value	1.6W/m <sup>2</sup> K

Replacements	1.4 W/m <sup>2</sup> K
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Energy Rating	B or better
---------------	-------------

All windows must conform to these requirements.

## Thermal Efficiency

In order to improve thermal efficiency, the OW-70 is fitted with a 32mm polyamide thermal break and a bespoke cavity gasket in the internal chamber of the window between the sash and the frame as standard.

The short-leg and long-leg frame can achieve a U-Value as low as 1.1 W/m<sup>2</sup>K.



Product: OW-70  
Colour: 9005M

## Egress Application

Approved Document B of the Building Regulations 2010 specifies the following provisions with regards 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 0.33m<sup>2</sup> 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 1,100mm above the floor; and
- 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

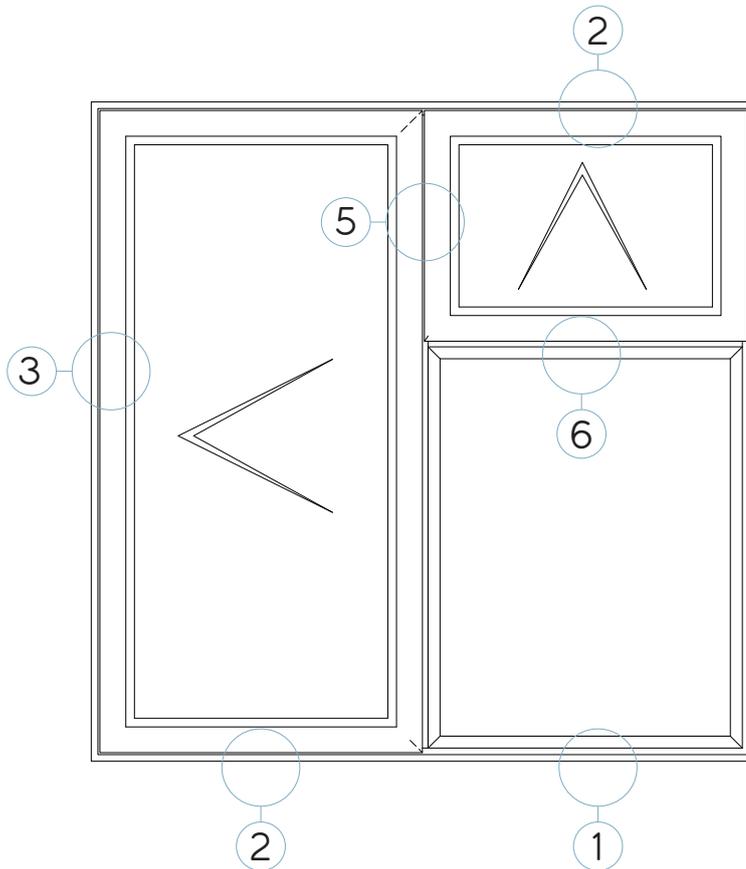
**Note 2.** Locks (with or without removable keys) and stays may be fitted to egress windows, subject to the stay being fitted with a release catch, which may be child resistant

**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

# Master Configurations

## Master Configuration: Casement

See Configuration Key for section detail ▶



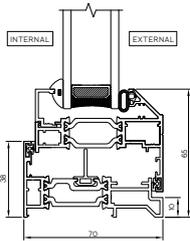
### Key features

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

See page 52 for popular configurations

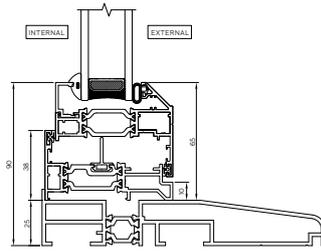
## Configuration Key

1a-1b - Cill, Frame and Sash Detail



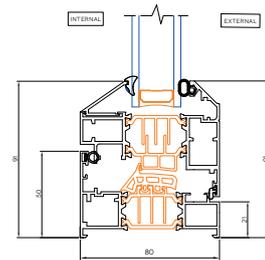
See page 25

2a-2b - Cill and Sash Detail



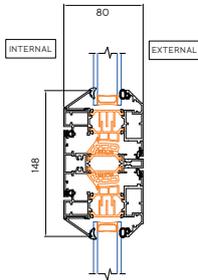
See page 26

3 - Frame Next to Sash Detail



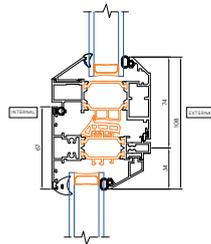
See page 27

5 - Mullion Sightlines Sash-to-Sash Detail



See page 30

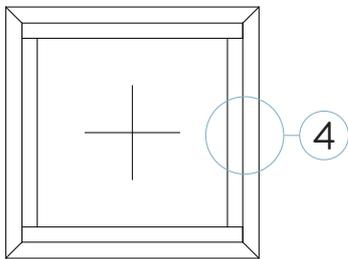
6 - Top Hung Sash Over Mullion Detail



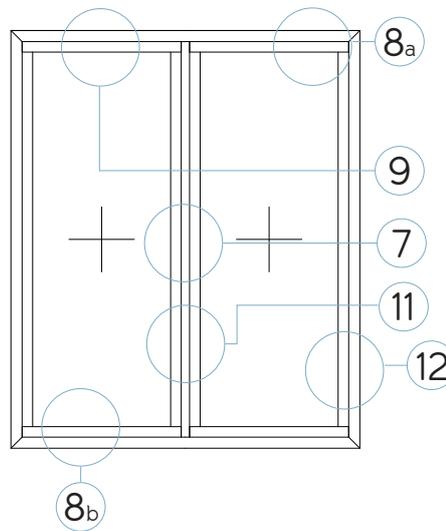
See page 31

Master Configuration: Fixed

See Configuration Key for section detail ▶



Mullion sightlines for Fixed Frames



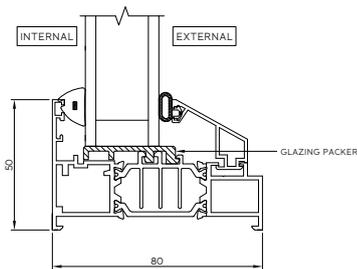
Key features

- ▶ Secured by Design locking system
- ▶ Can be specified up to 4.8m<sup>2</sup>

See page 52 for popular configurations

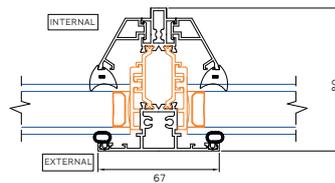
## Configuration Key

4a-4b - Fixed Frame Detail



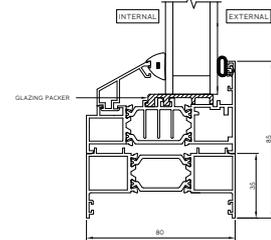
See page 29

7 - Mullion Sightline For Vertically Beaded Fixed Frame Detail



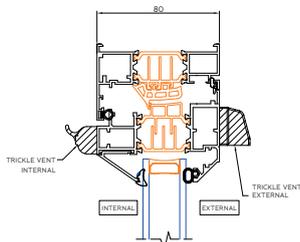
See page 32

8a-8b - Frame Extender Detail



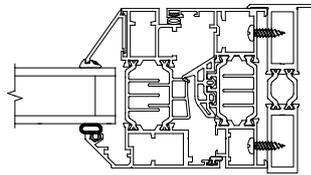
See page 33

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



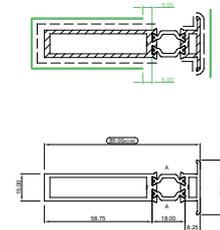
See pages 34

11b - Window-to-Window Coupler Detail



See page 39

12 - Window-to-Door Coupler Details

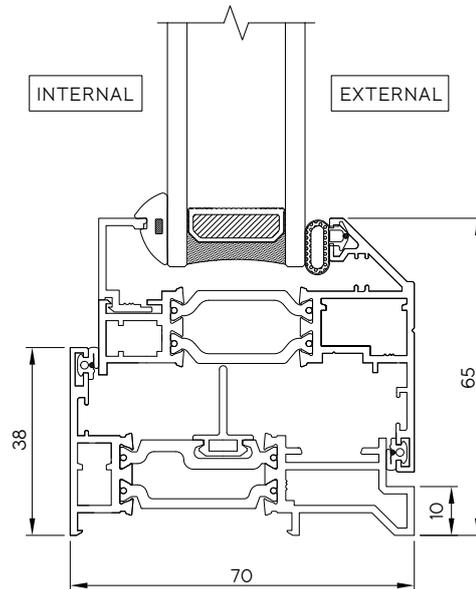


See page 41

# Technical Drawings

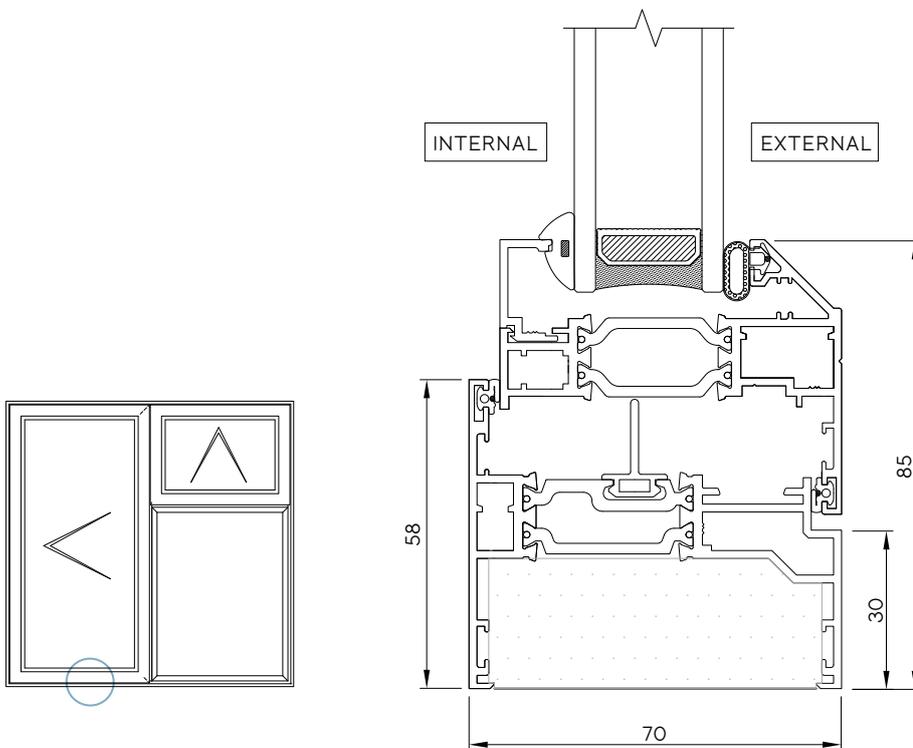
1a

Short-Leg Frame and Sash Detail



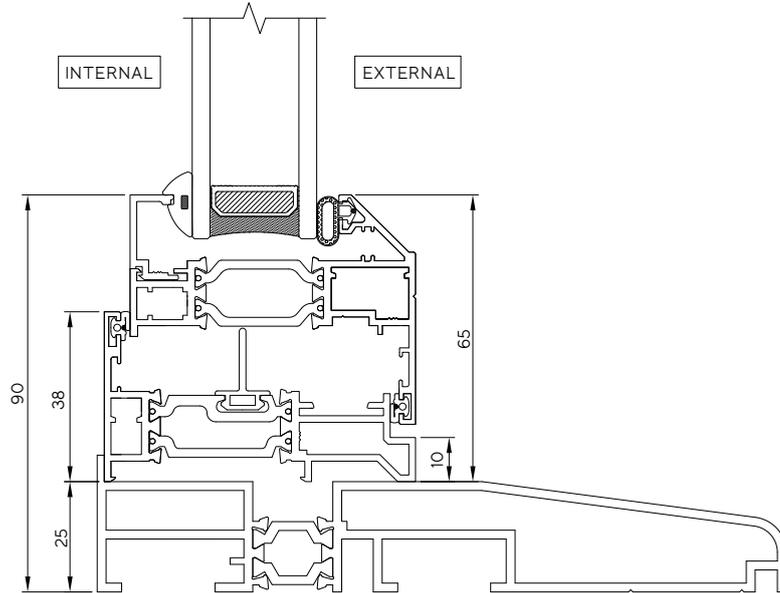
1b

Long-Leg Frame and Sash Detail



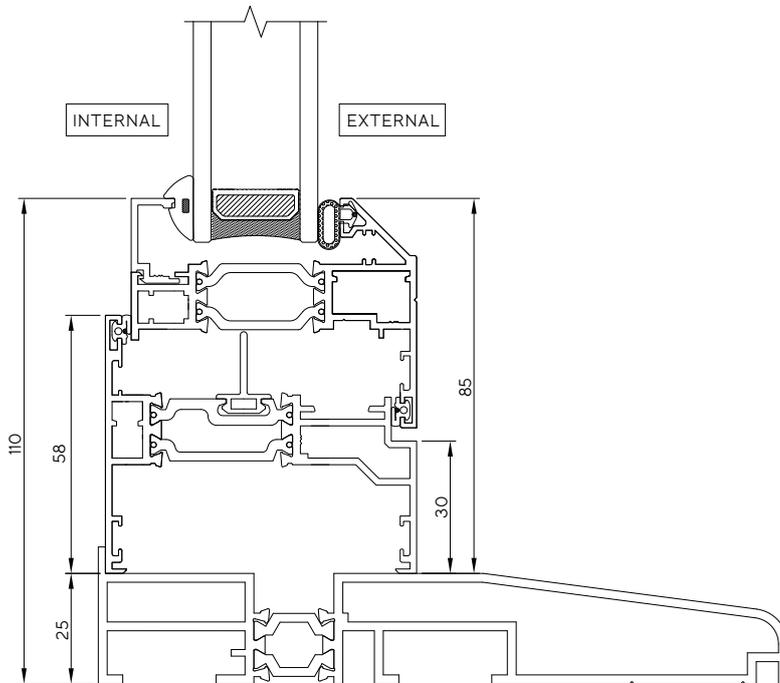
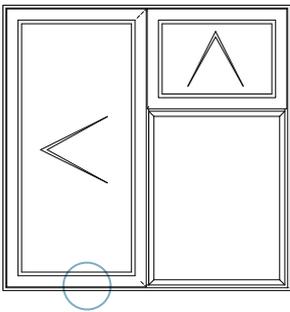
2a

Cill Short-Leg Frame and Sash Detail

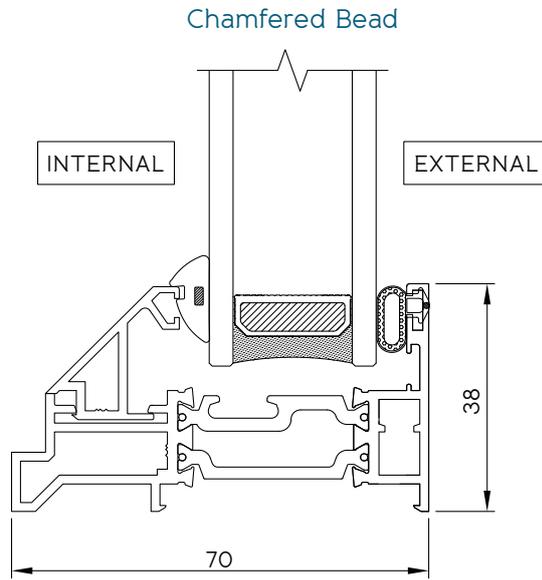
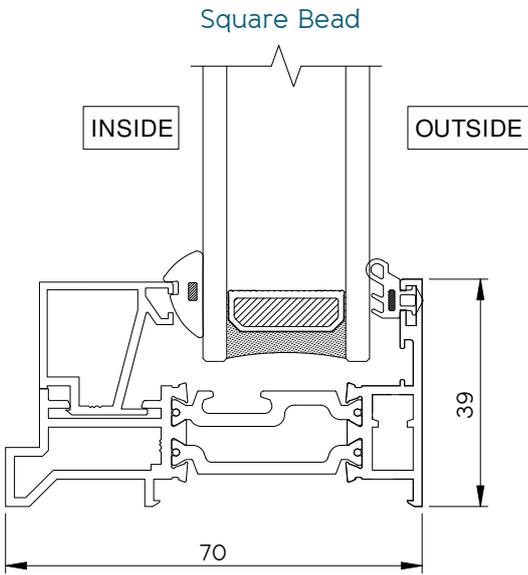


2b

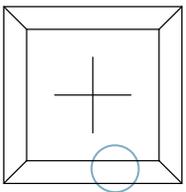
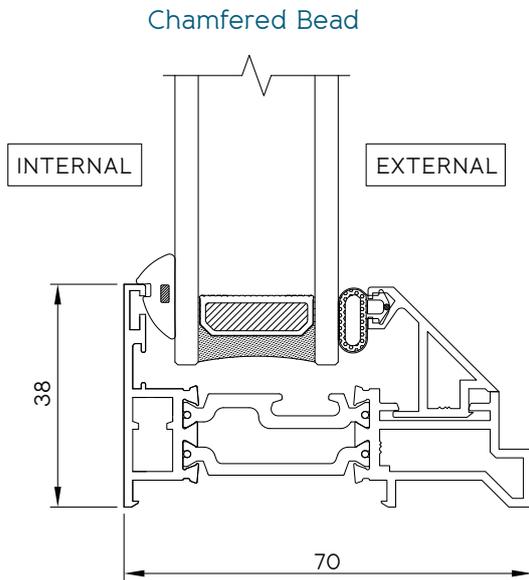
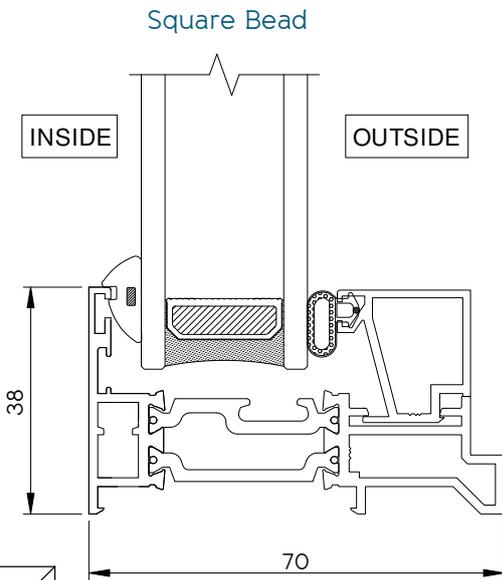
Long-Leg Frame and Sash Detail



3a Frame Bead Options - Internally Beaded



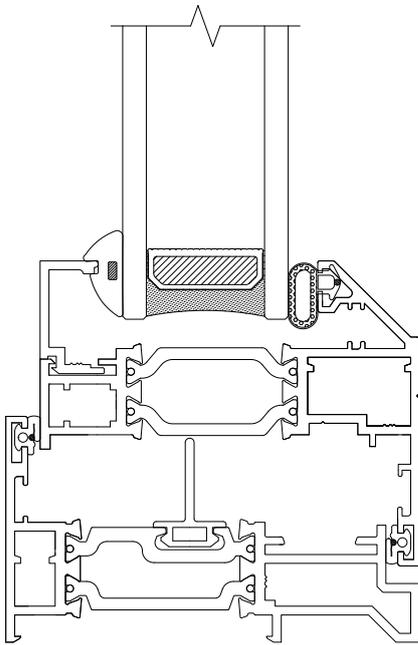
3b Frame Bead Options - Externally Beaded



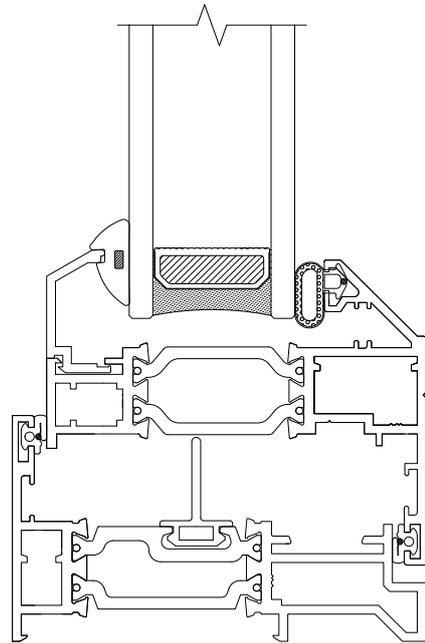
3c

Casement Bead Options

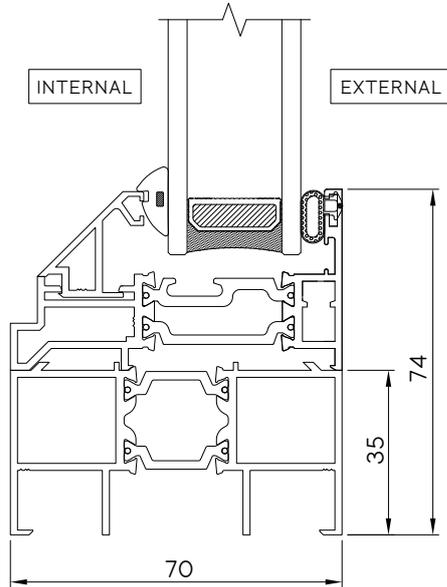
Square Bead



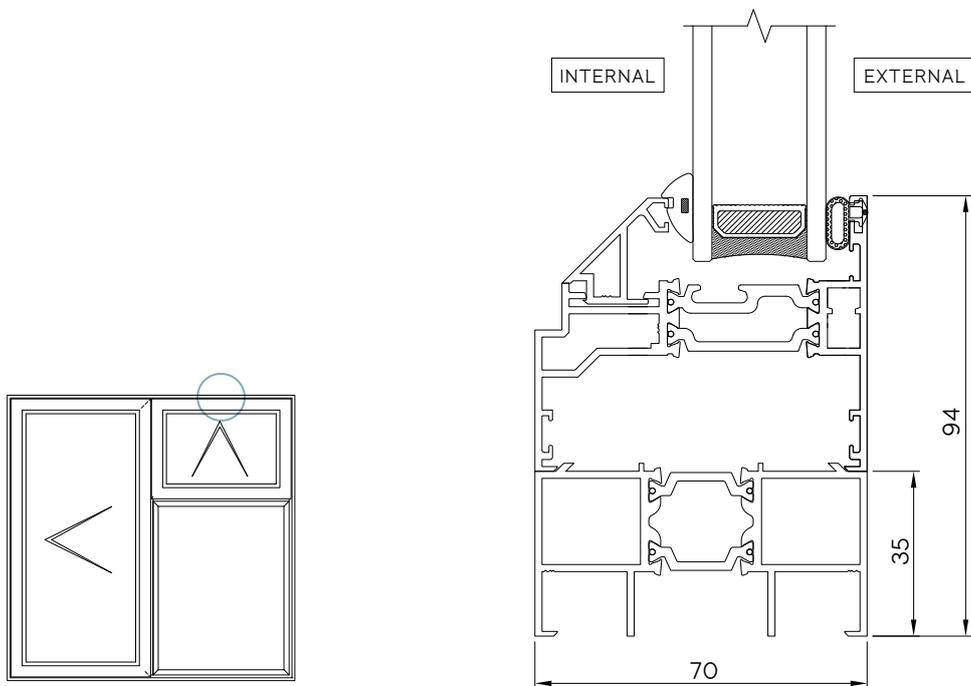
Chamfered Bead



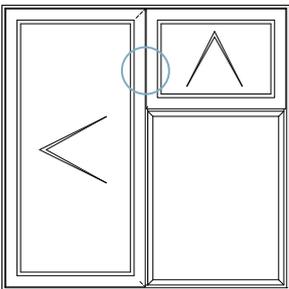
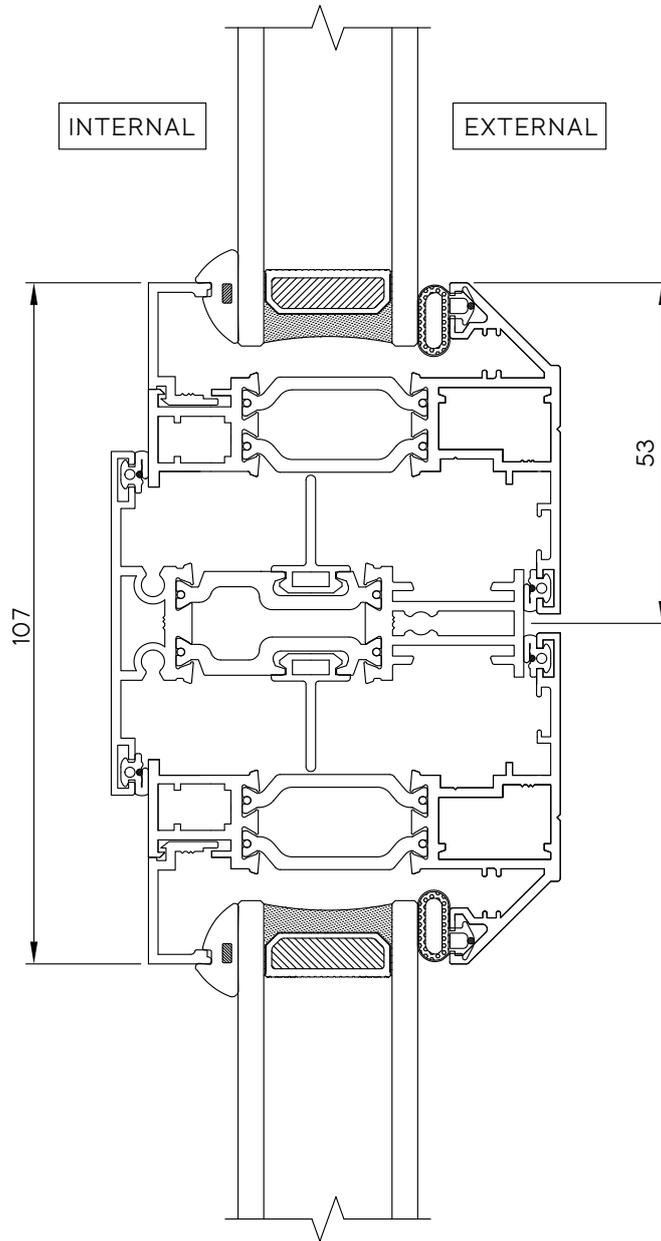
4a 35mm Frame Extender With Short-Leg Frame Detail



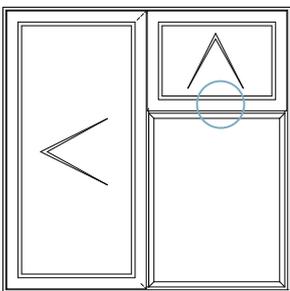
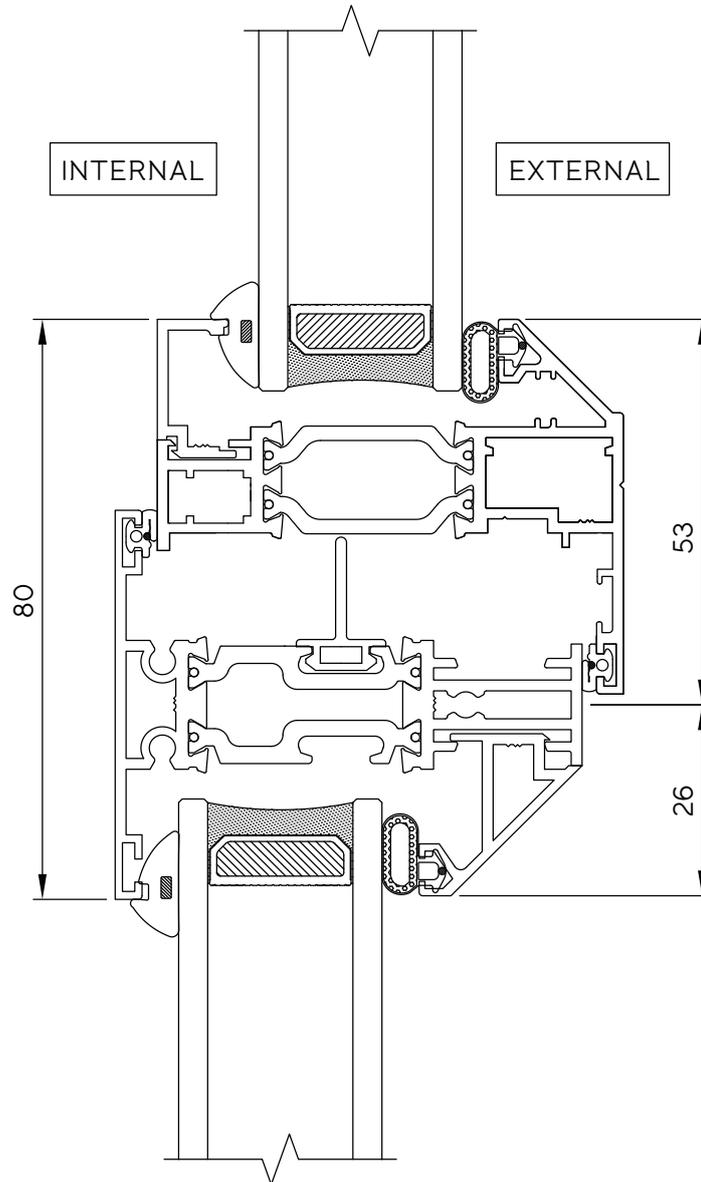
4b 35mm Frame Extender With Long-Leg Frame Detail



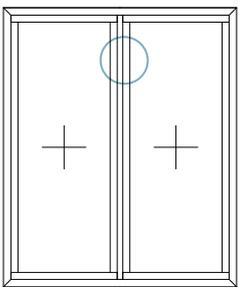
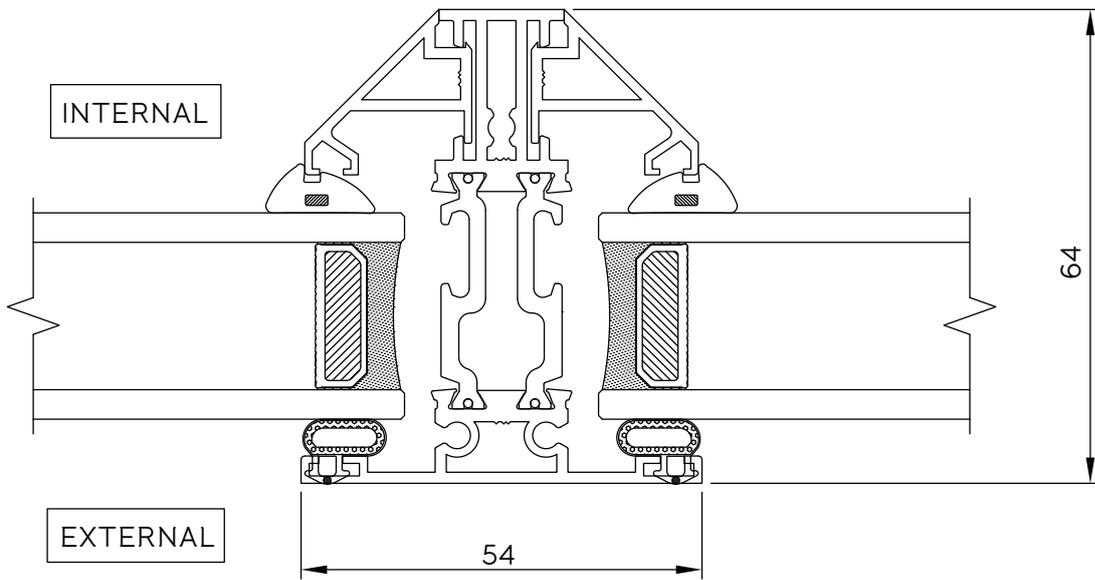
5 Mullion Sightlines - Sash-to-Sash Detail



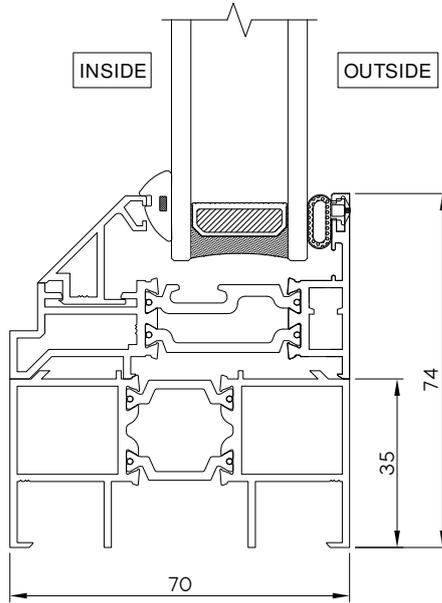
6 Top Hung Sash Over Mullion Detail



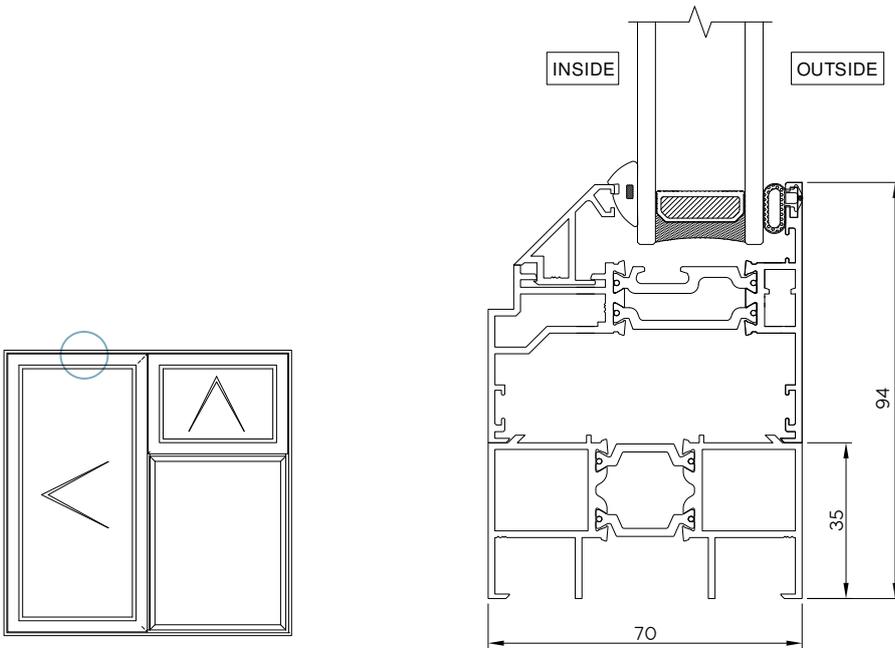
7 Mullion Sightlines For Internally Beaded Fixed Frames Detail



8a 35mm Sort-Leg Frame Extender Detail

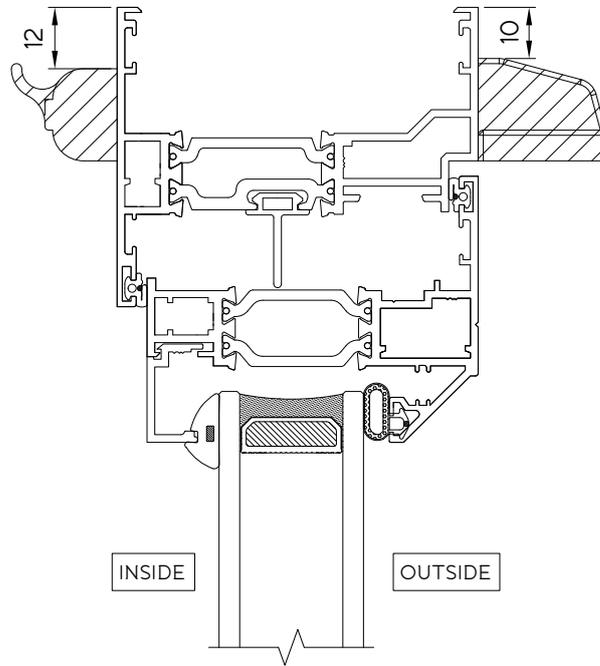


8b 35mm Long-Leg Frame Extender Detail



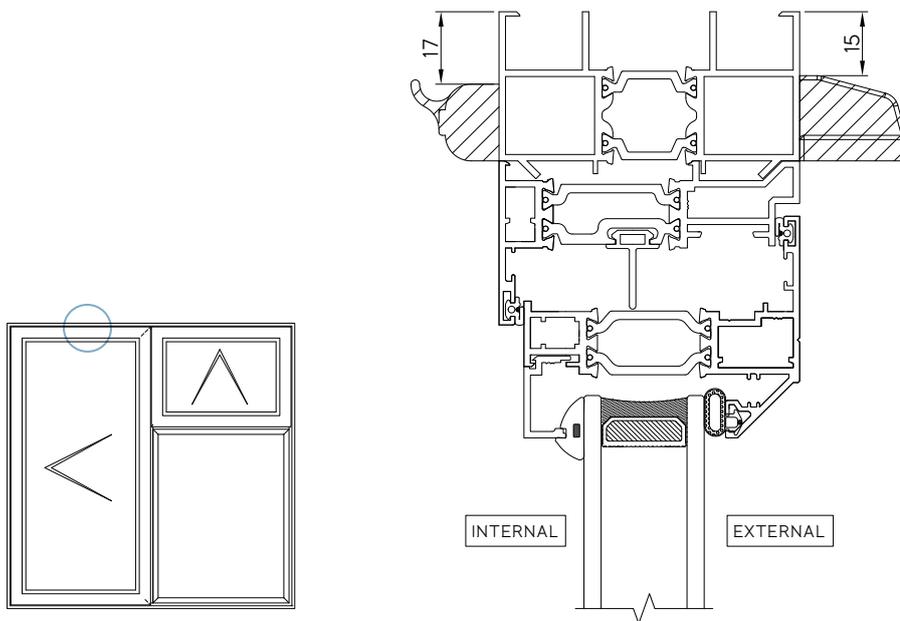
9a

Trickle Vent Through Long-Leg Frame Detail



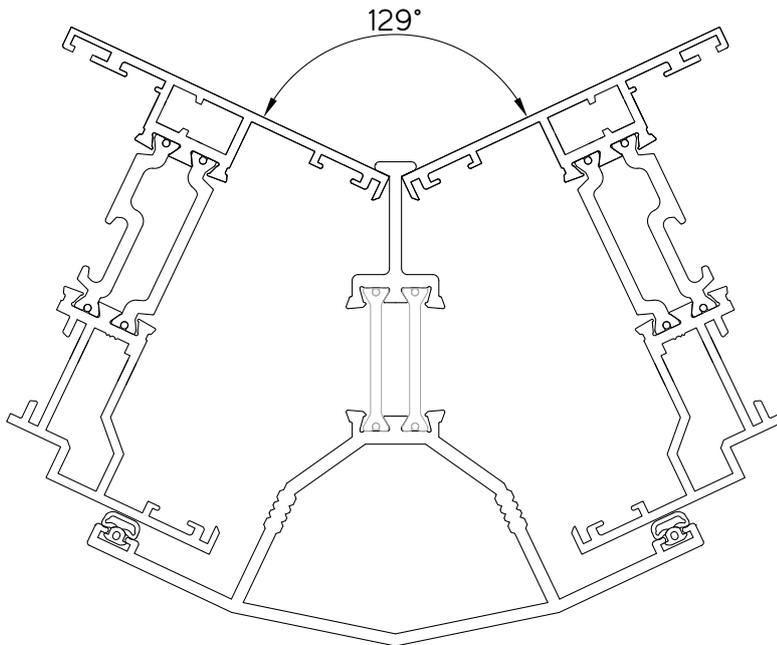
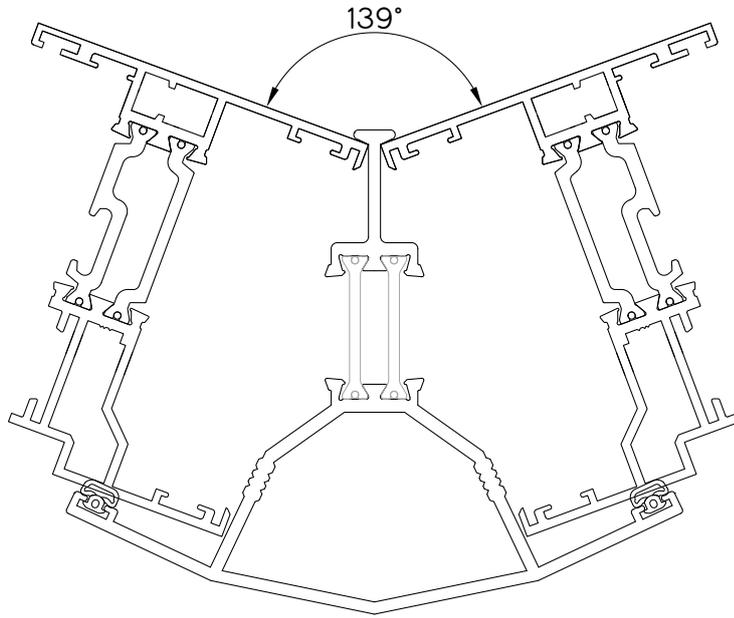
9b

Trickle Vent Through 35mm Frame Extender Detail



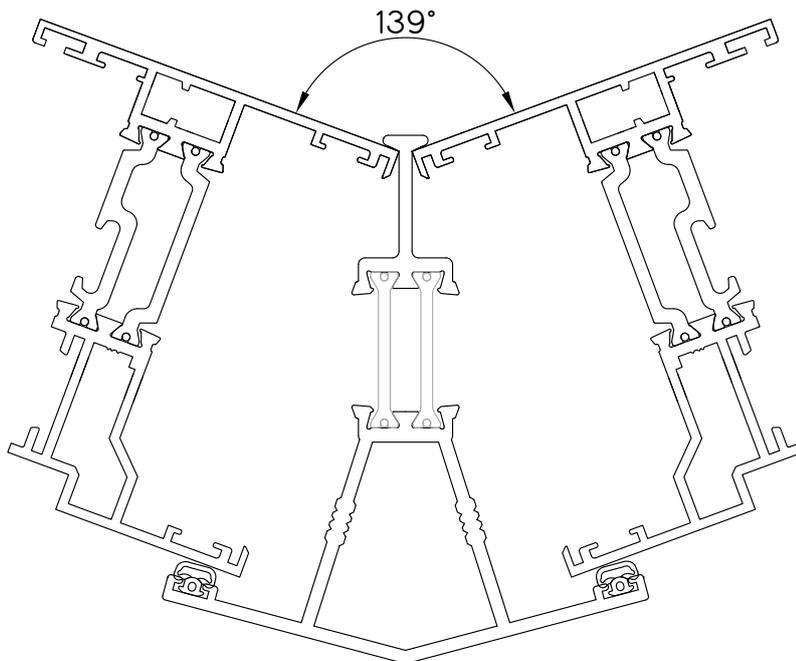
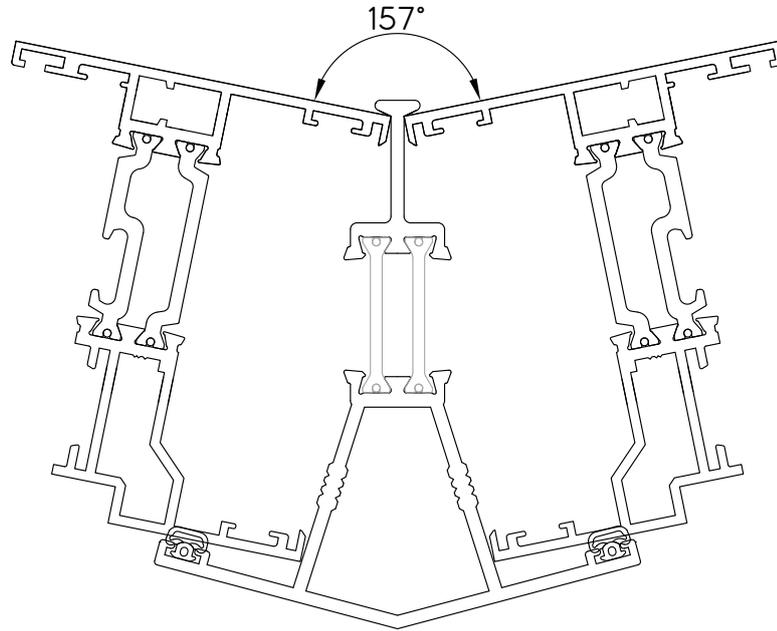
10a

Variable Bay Mullion 129° - 139°



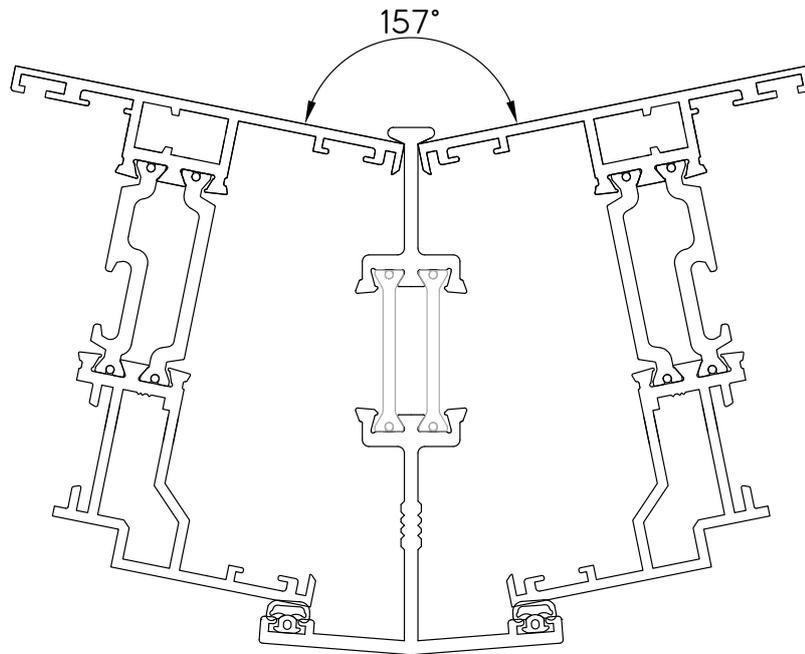
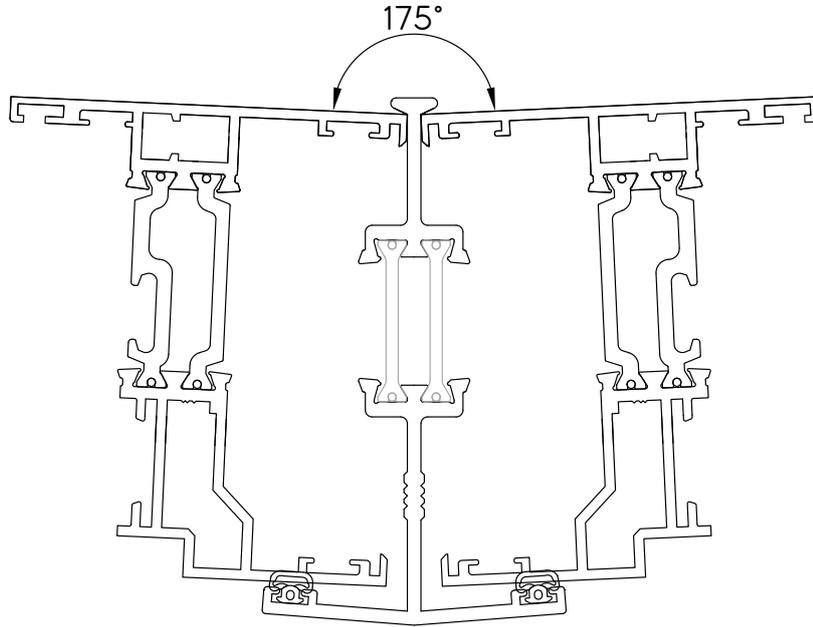
10b

Variable Bay Mullion 139° - 157°



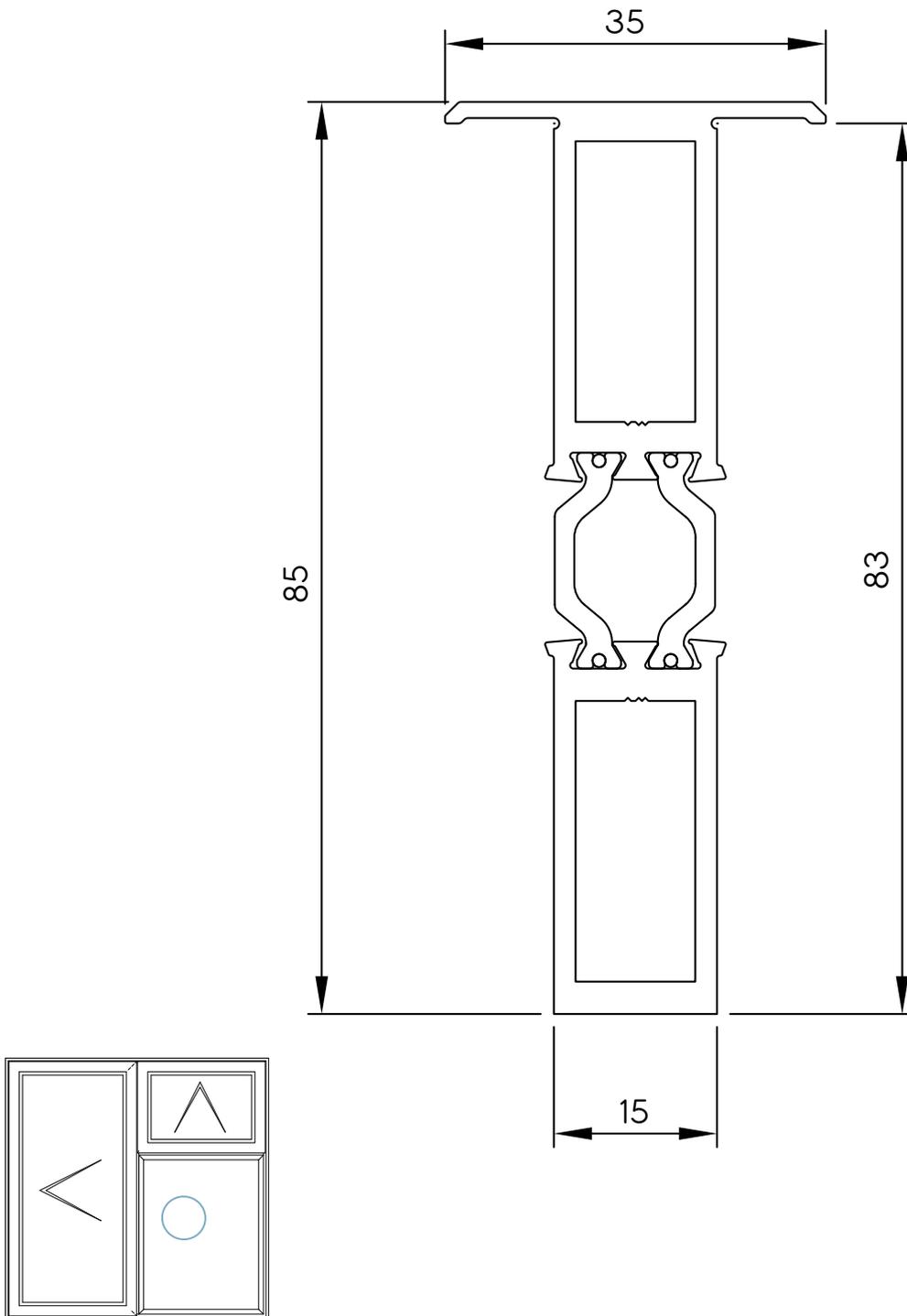
10c

Variable Bay Mullion 157° - 175°

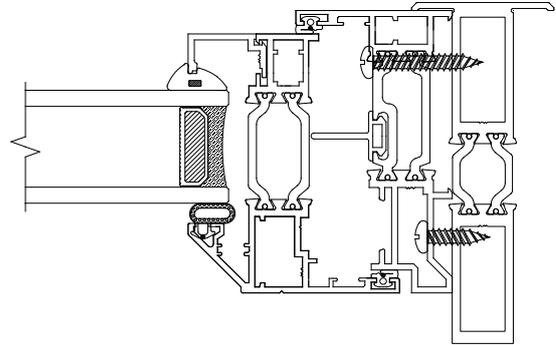
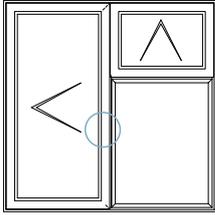


11a

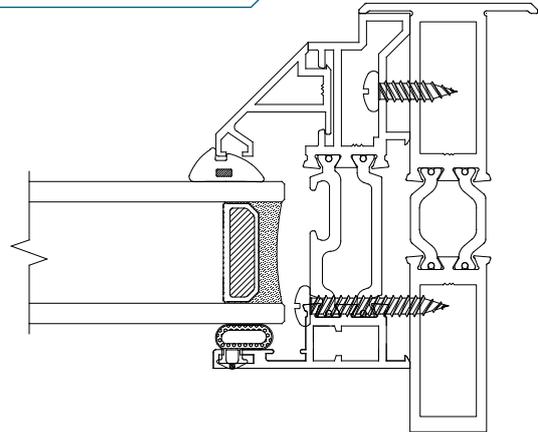
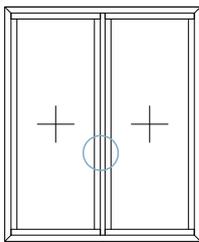
Window Coupler Detail



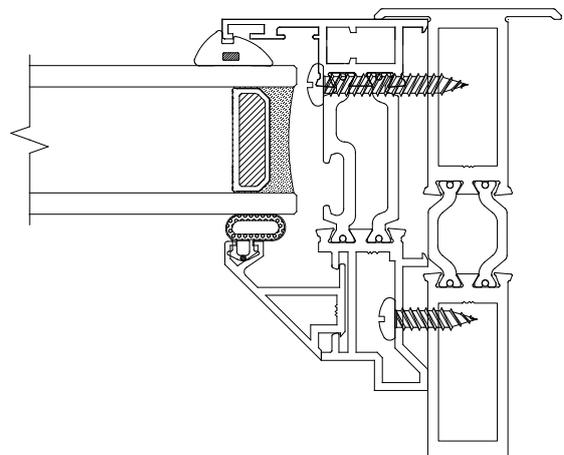
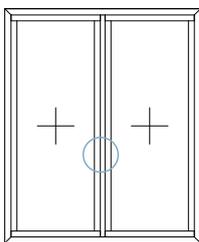
11b Short-Leg - Casement Window Coupling Detail



11c Short-Leg Coupling - Fixed Internally Glazed Detail

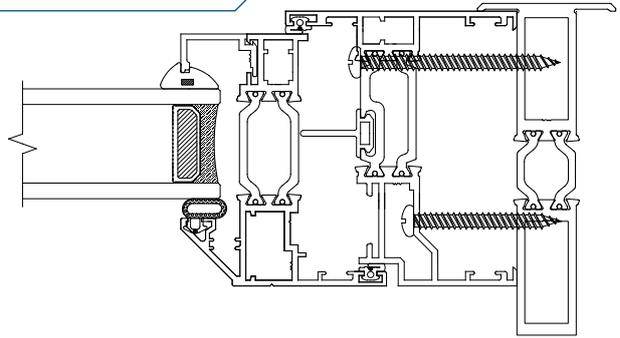
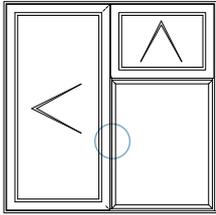


11d Short-Leg Coupling - Fixed Externally Glazed Detail



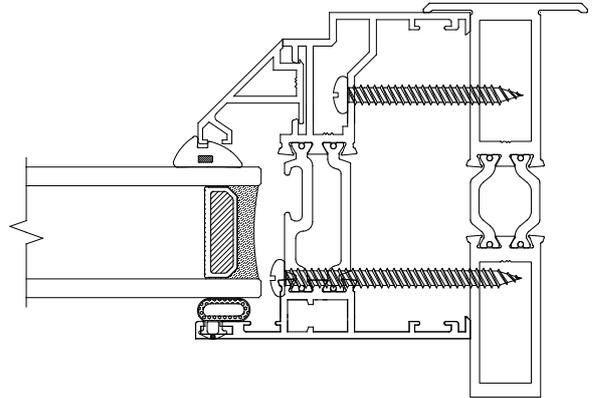
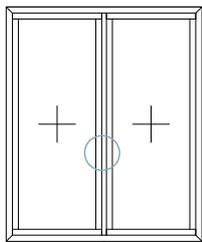
11e

Long-Leg Coupling - Casement Window Detail



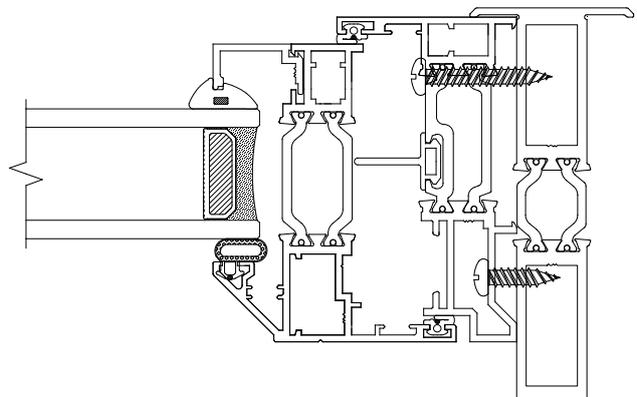
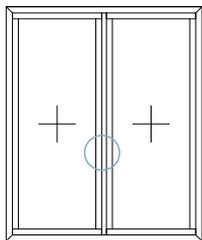
11f

Long-Leg Coupling - Fixed Internally Glazed Detail



11g

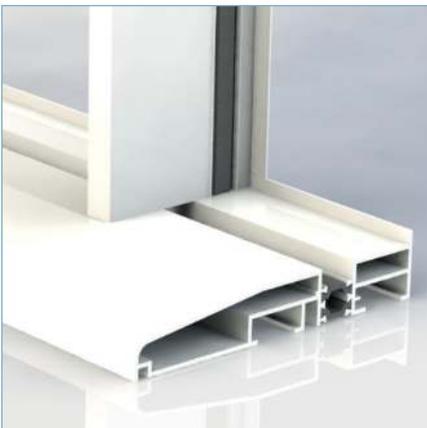
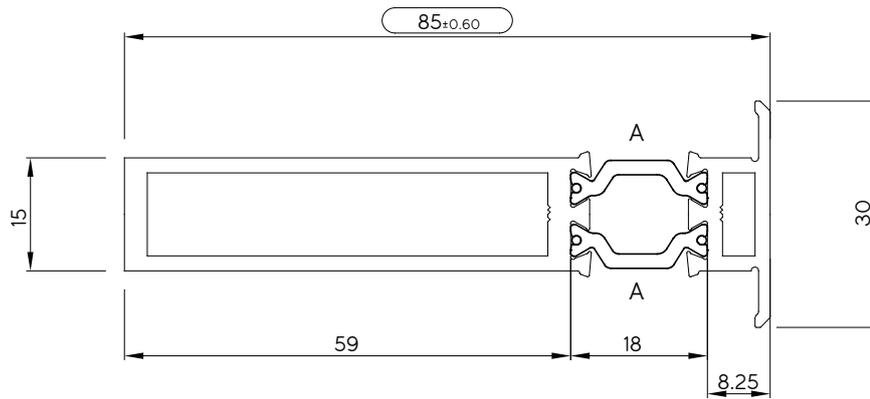
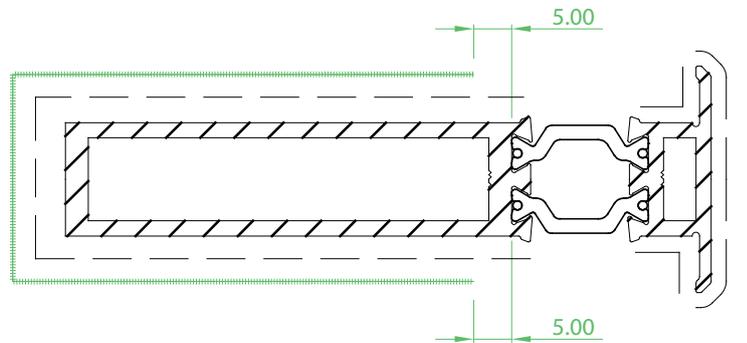
Long-Leg Coupling - Fixed Externally Glazed Detail



12

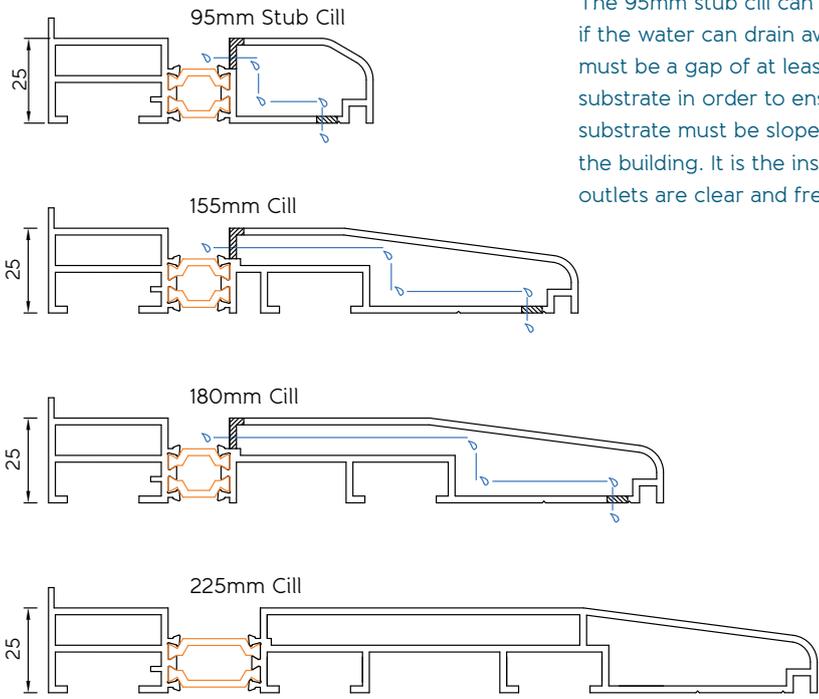
### Window-to-Door Coupler Detail

See p60 for install instructions



13

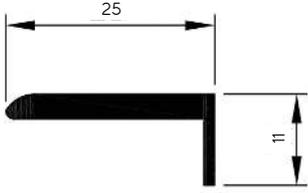
Cills, Bead and Trim



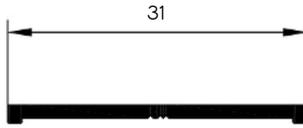
The 95mm stub cill can only be prepared with concealed drainage if the water can drain away towards the outside of the reveal. There must be a gap of at least 20mm between the drainage hole and the substrate in order to ensure the water can drain effectively. The substrate must be sloped to ensure the 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.

14

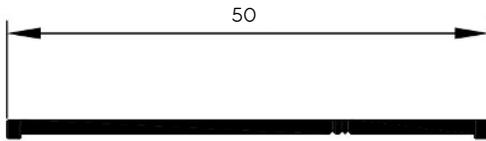
Trim Options



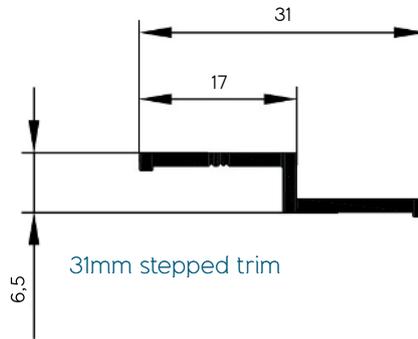
25mm trim



31mm flat trim

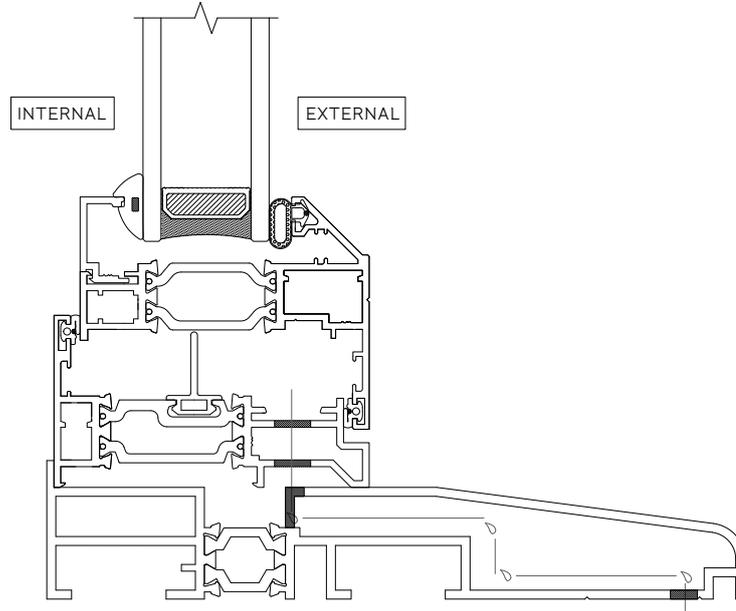


50mm flat trim

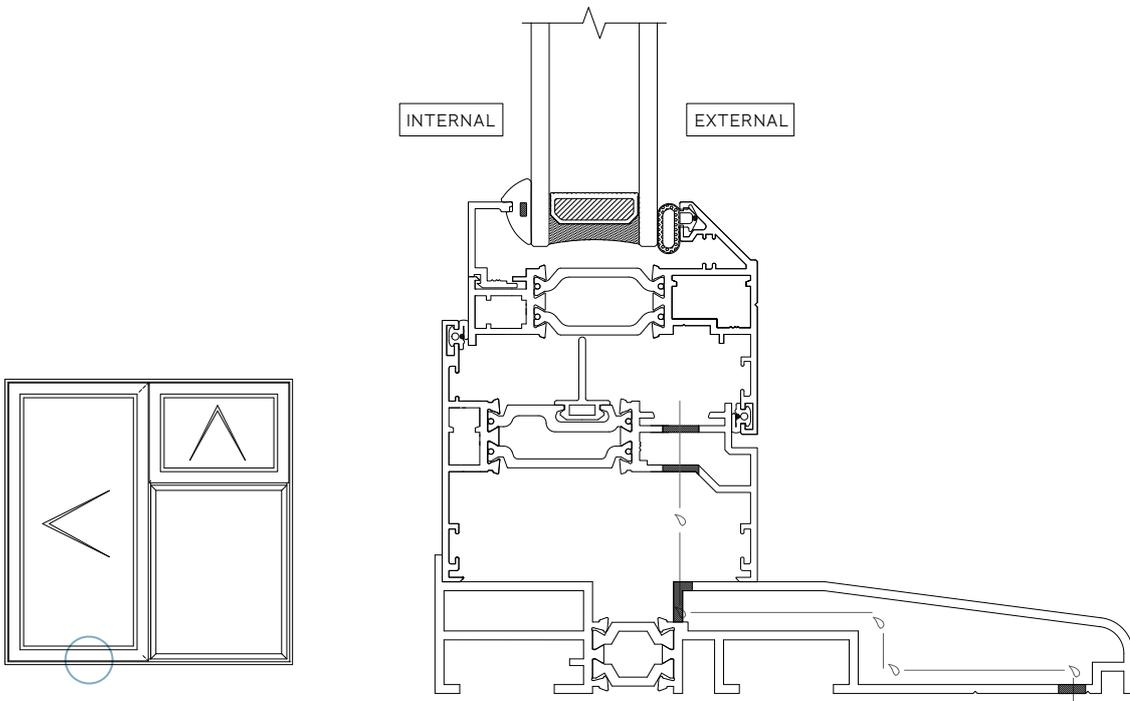


31mm stepped trim

17a Short-Leg Concealed Drainage Detail

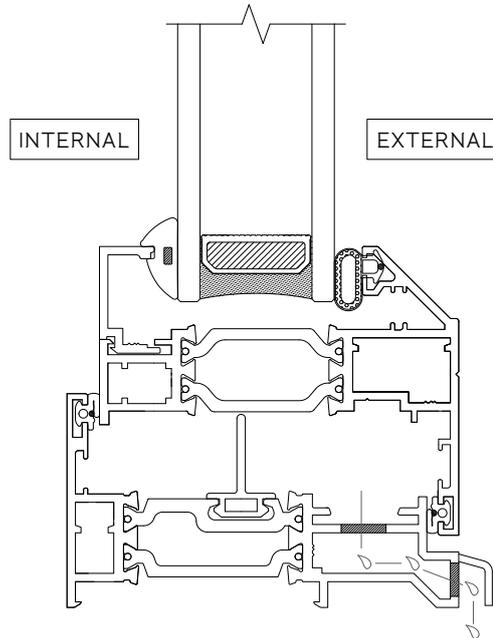


17b Long-Leg Concealed Drainage Detail



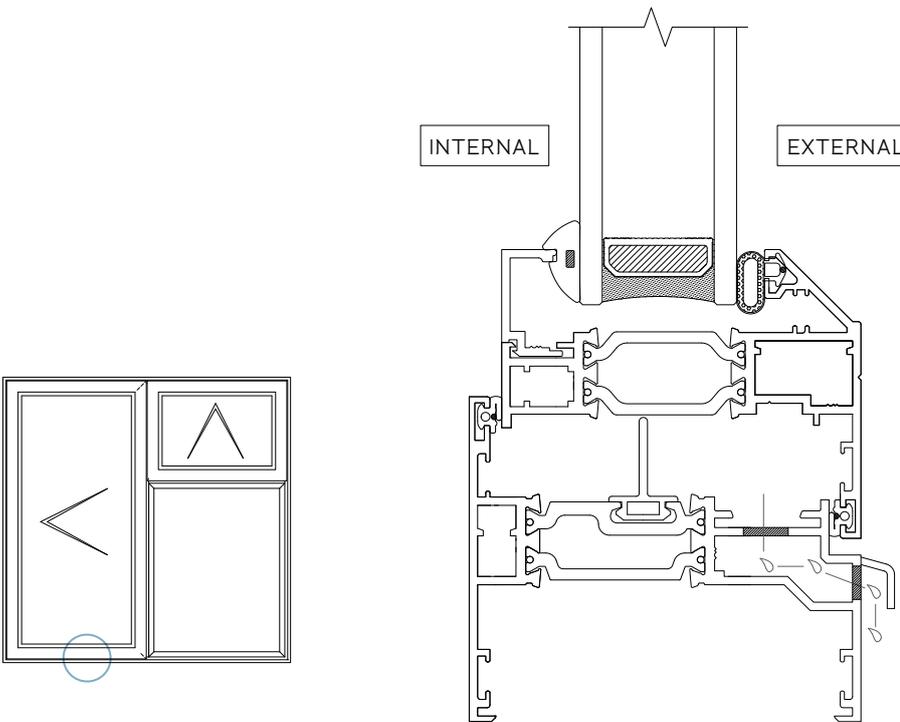
17c

Short-Leg Casement Face Drainage Detail

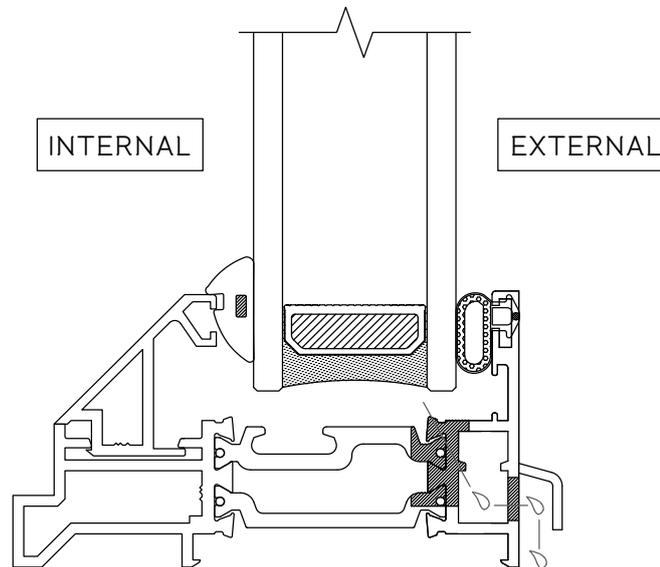


17d

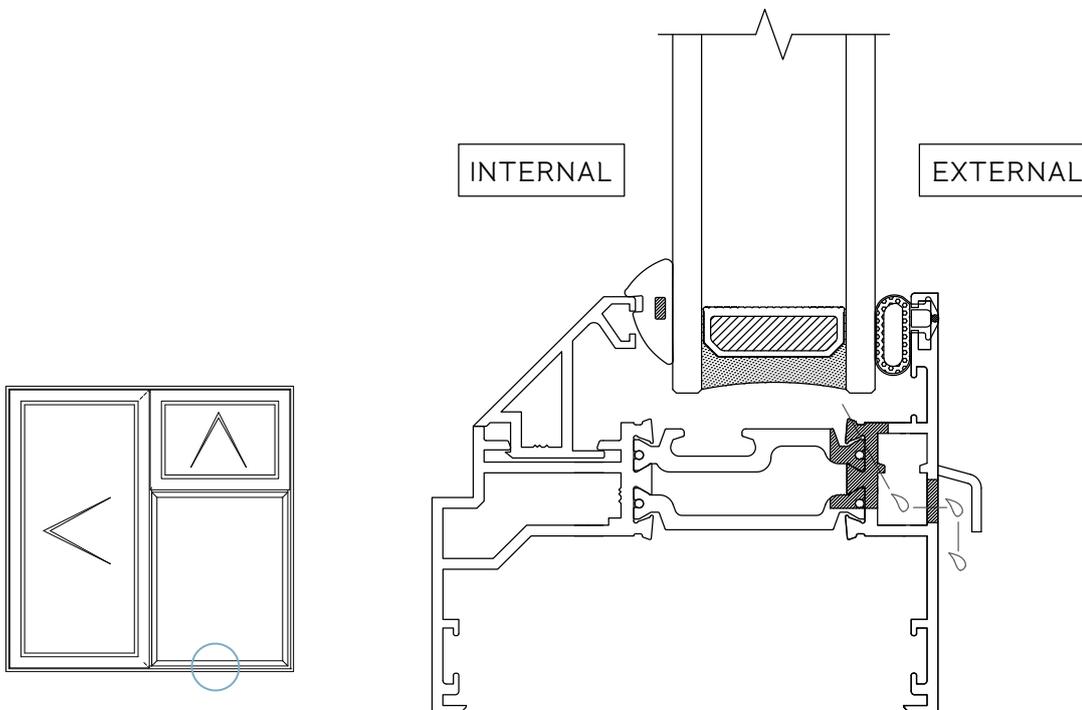
Long-Leg Casement Face Drainage Detail



17e Short-Leg Fixed Frame Face Drainage Detail

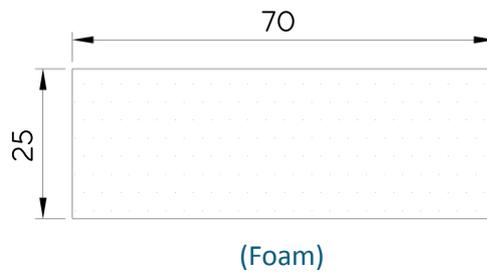
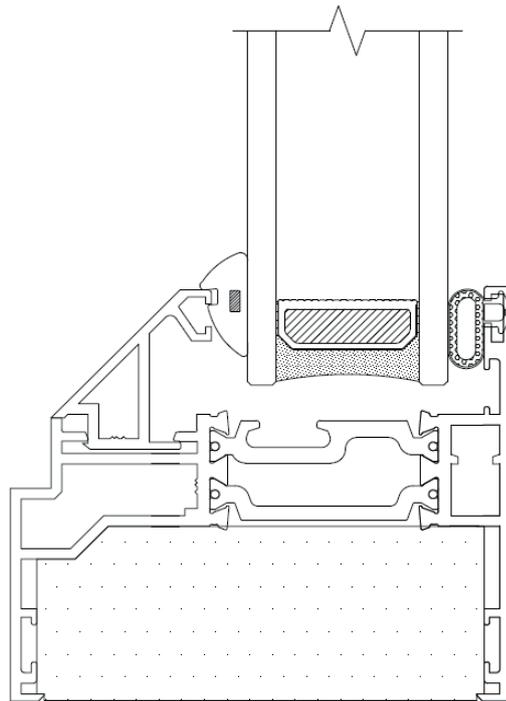
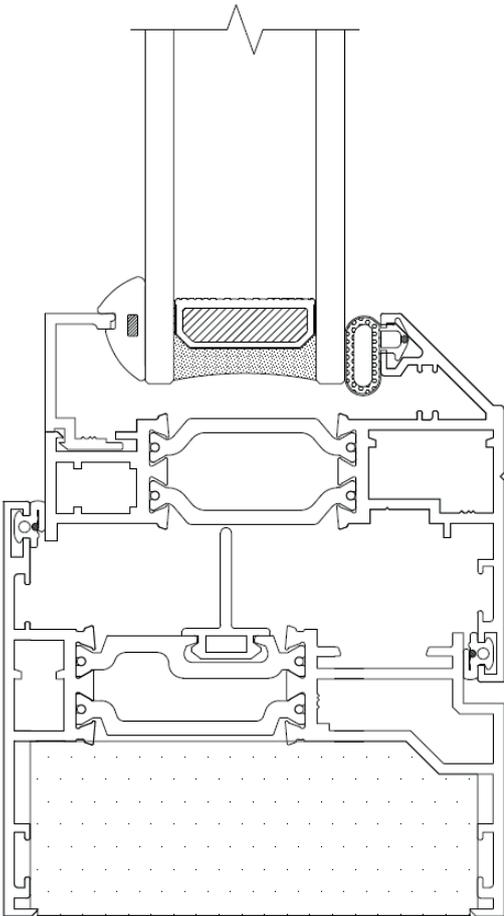


17f Long-Leg Fixed Frame Face Drainage Detail



18

Long-Leg Frame Foam Detail



A grey expanded polyether foam (25mm x 70mm) adhesive backed that is installed in the cavity of the OW-70 Long-leg frame

# Fixing Straps

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

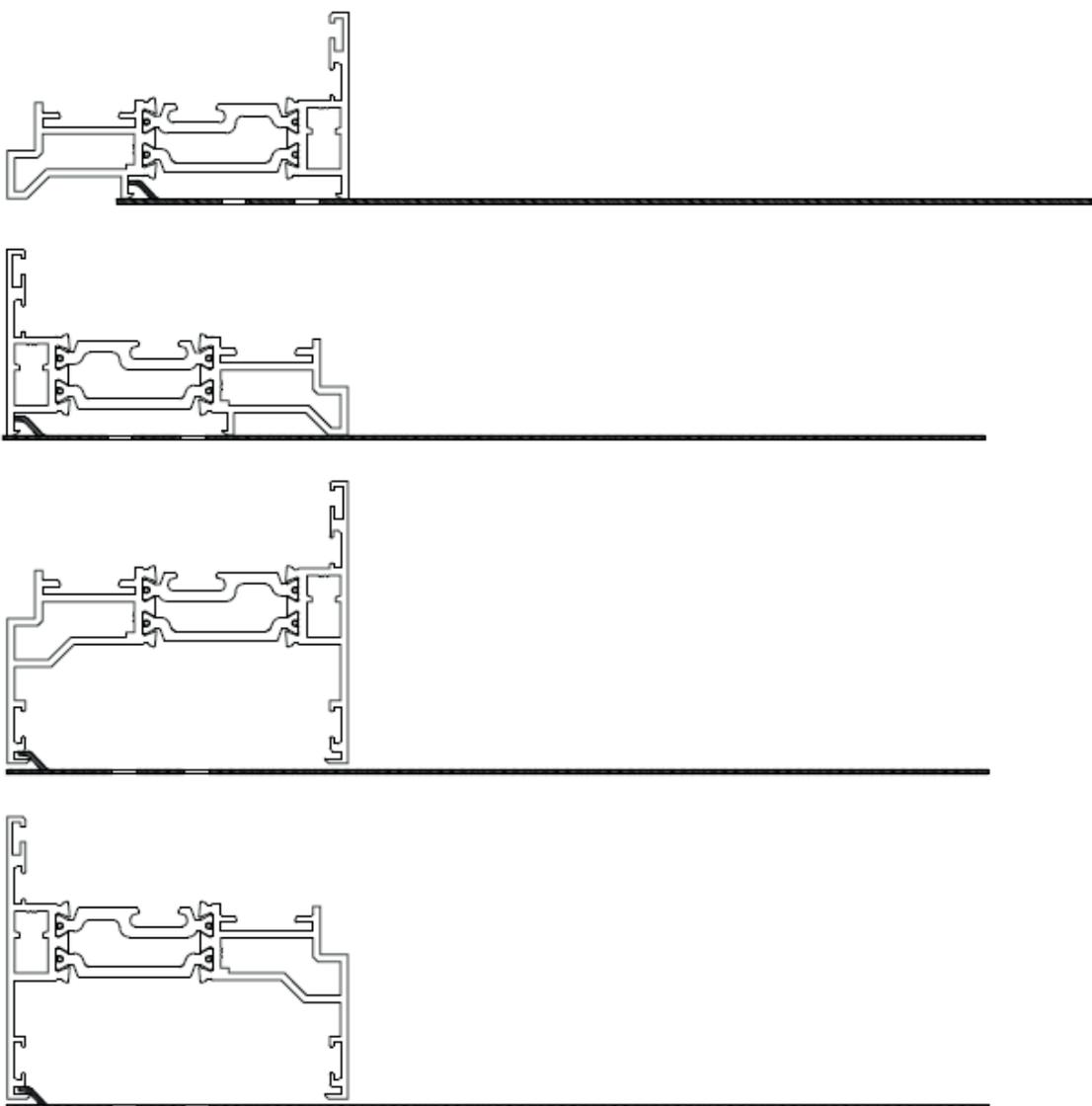
Fixing straps are suitable to be used on OW-70 Standard Leg Frame, OW-70 Long Leg Frame, and OW-70 Frame Extender.

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

Screw Recommendations:

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

For install instructions, see p56



# Gaskets

## Closing Gasket AF032



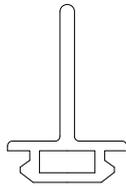
Internal / External

## Glazing Rebate B2018



External

## Central Gasket OG03



## Glazing Gasket W474



Internal

Colour	AF032 (Closing Gasket)	B2018 (Glazing Rebate)	W474 (Glazing Gasket)	OG03 (Central Gasket)
Black	G00114	G00001	G00040	G00113
White		G00002	G00041	
Graphite Grey		G00064		
Light Oak		G00065	G00076	
Light Grey		G00089	G00075	
Bronze		G00090	G00077	
Chestnut Brown		G00091	G00078	
7015		G00092	G00068	
7016			G00061	

- Colour coded gaskets are available as an optional extra
- All colours are mapped across from the 'Colour' column except 7016. G00061 will be mapped with Graphite Grey for the W474 Glazing Gasket

## Cross Sectional Gasket Diagrams

- Colour coded gaskets to are available as an optional extra.
- All colours are available mapped across from the colours column except 7016. G00061 will be used for mapping with 'Graphite Grey' for the W474 Glazing Wedge.

External

Internal

B2018  
Glazing Rebate

AF032  
Closing Gasket

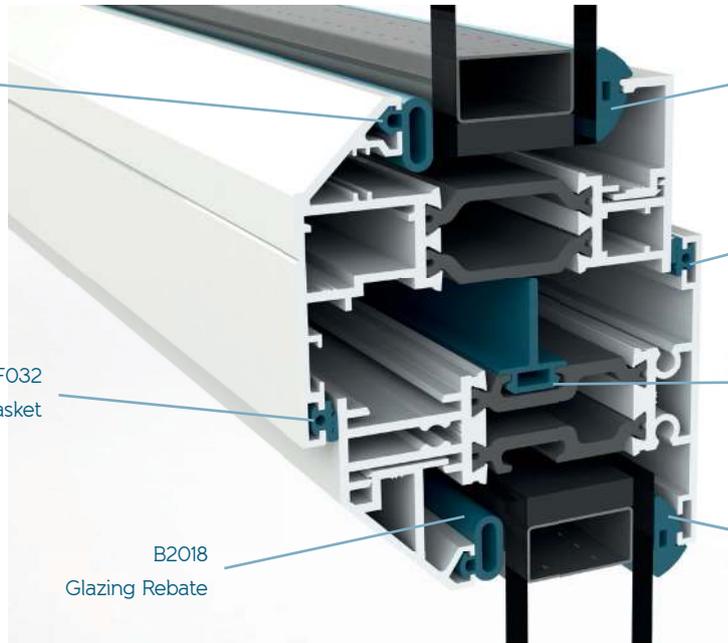
B2018  
Glazing Rebate

W474  
Glazing Gasket

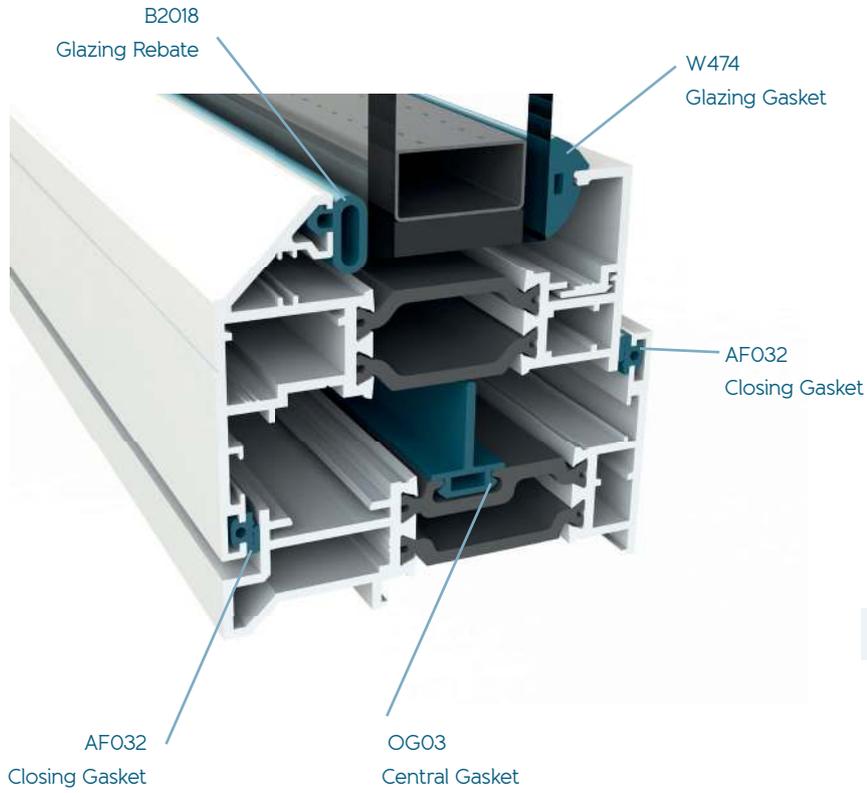
AF032  
Closing Gasket

OG03  
Central Gasket

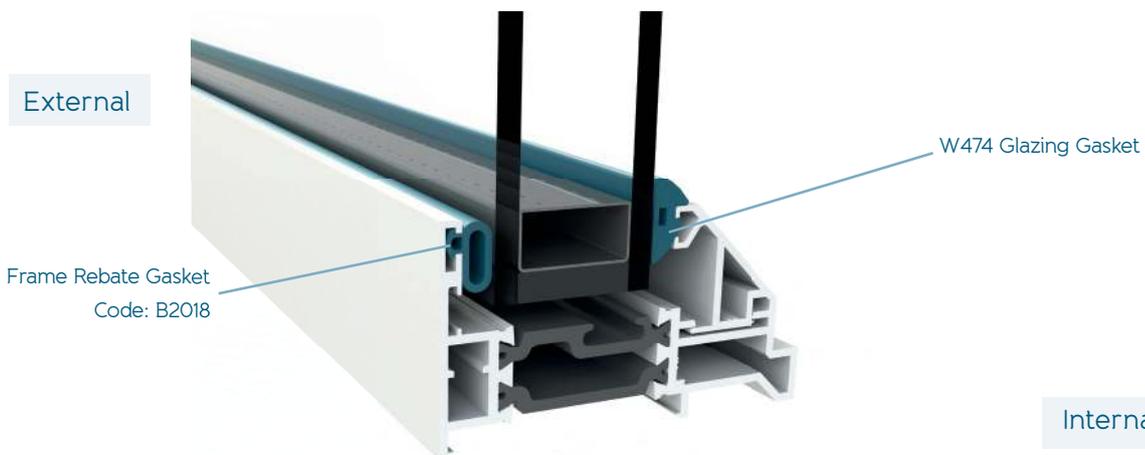
W474  
Glazing Gasket



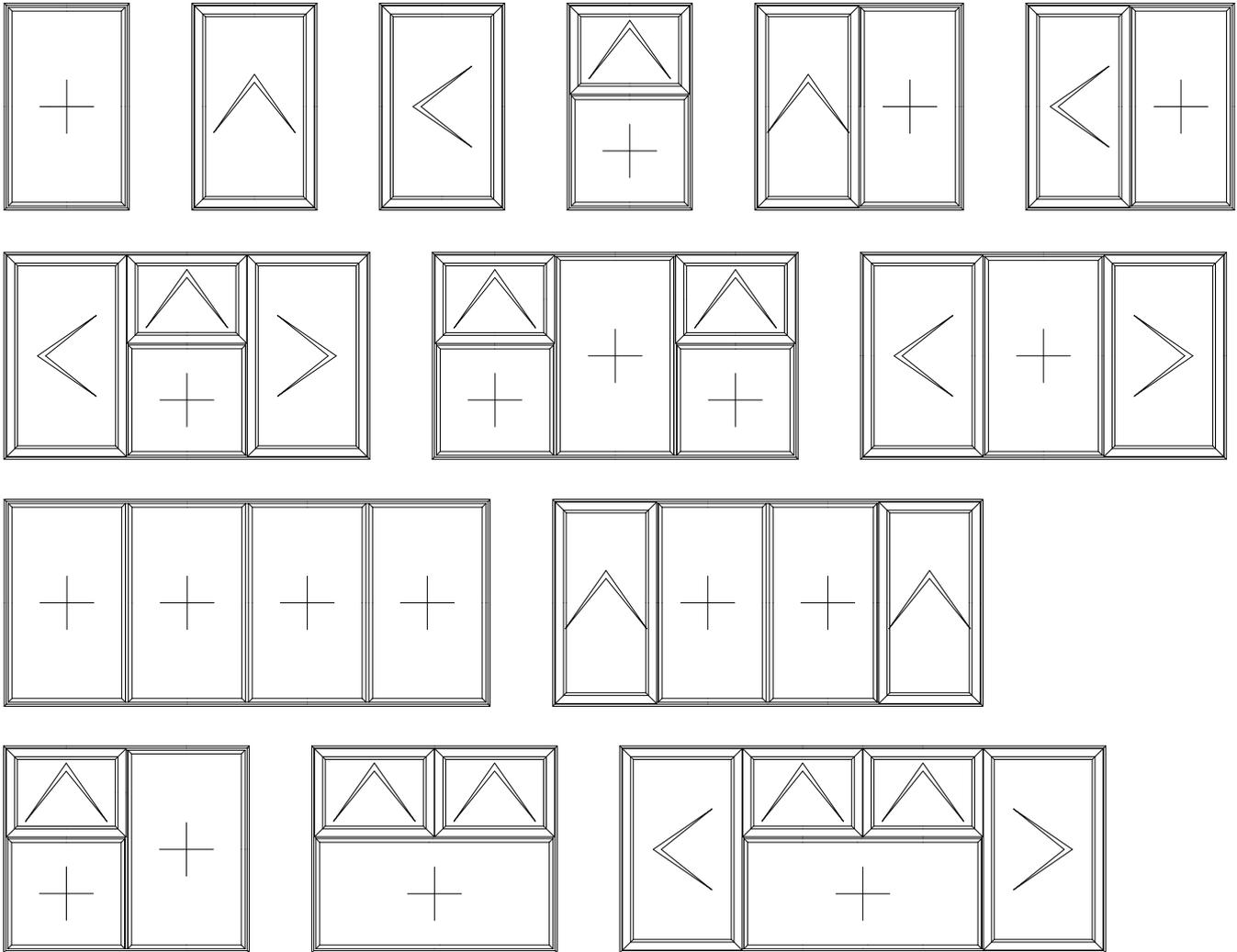
## Cross Sectional Gasket Diagrams



### Fixed frame



# Popular Configurations

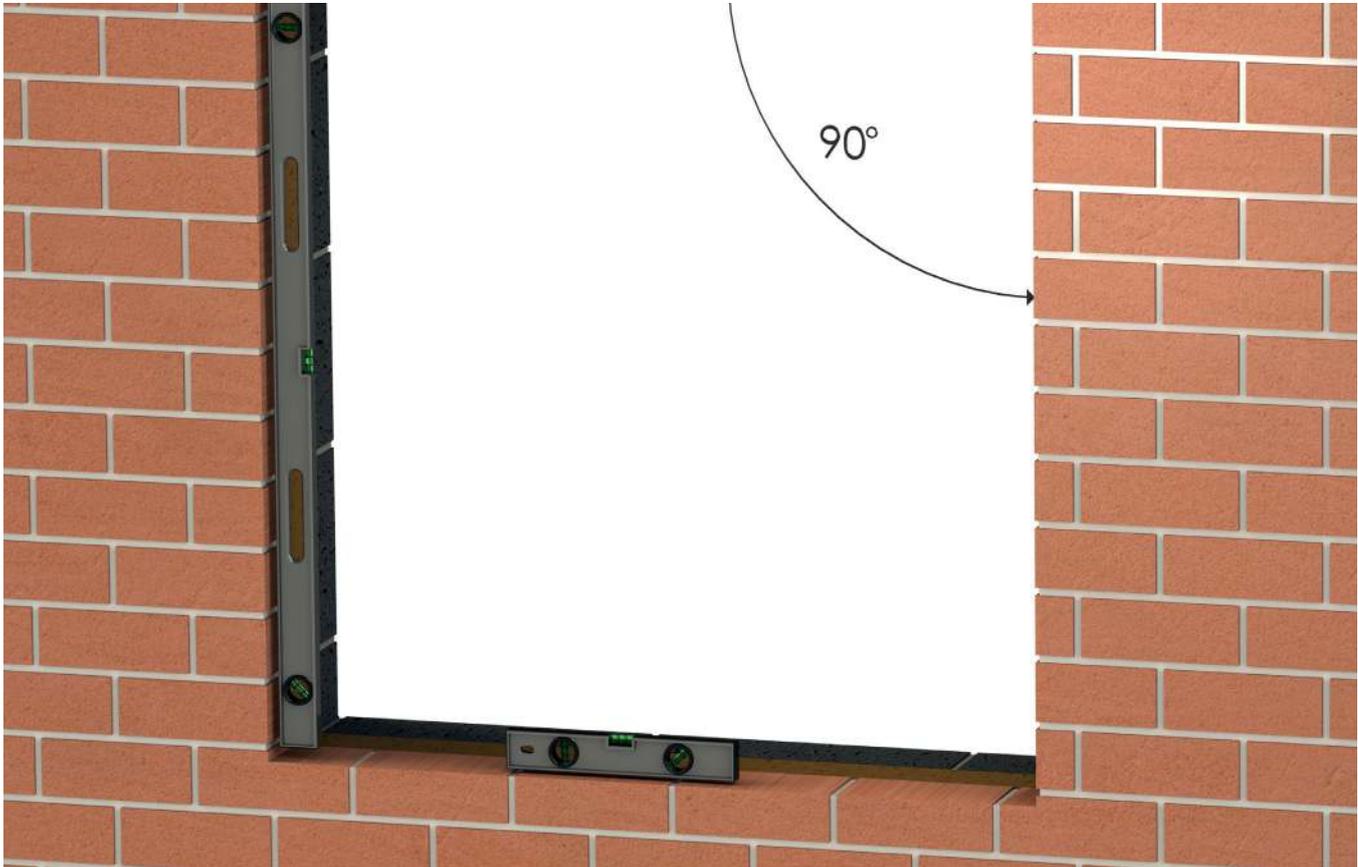


Key: + Fixed Frame or Dummy Sash     $\nabla$  Top Hung     $<$  Left Hung     $>$  Right Hung

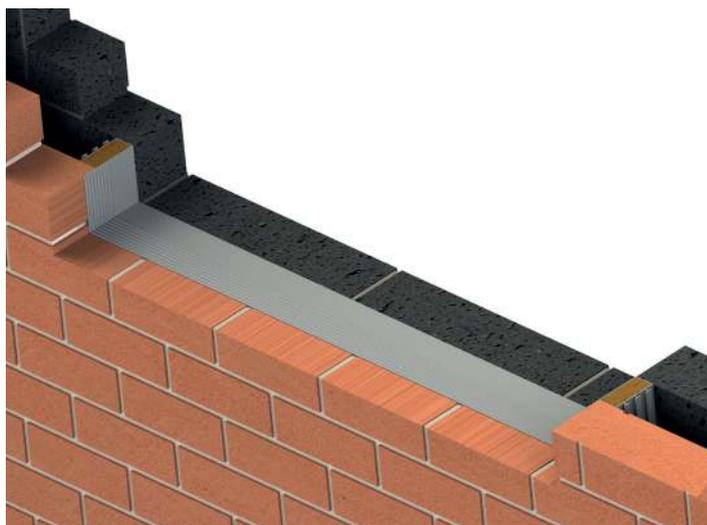
*\*Popular configurations are able to be specified on both Short-leg and Long-leg windows.*

# 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

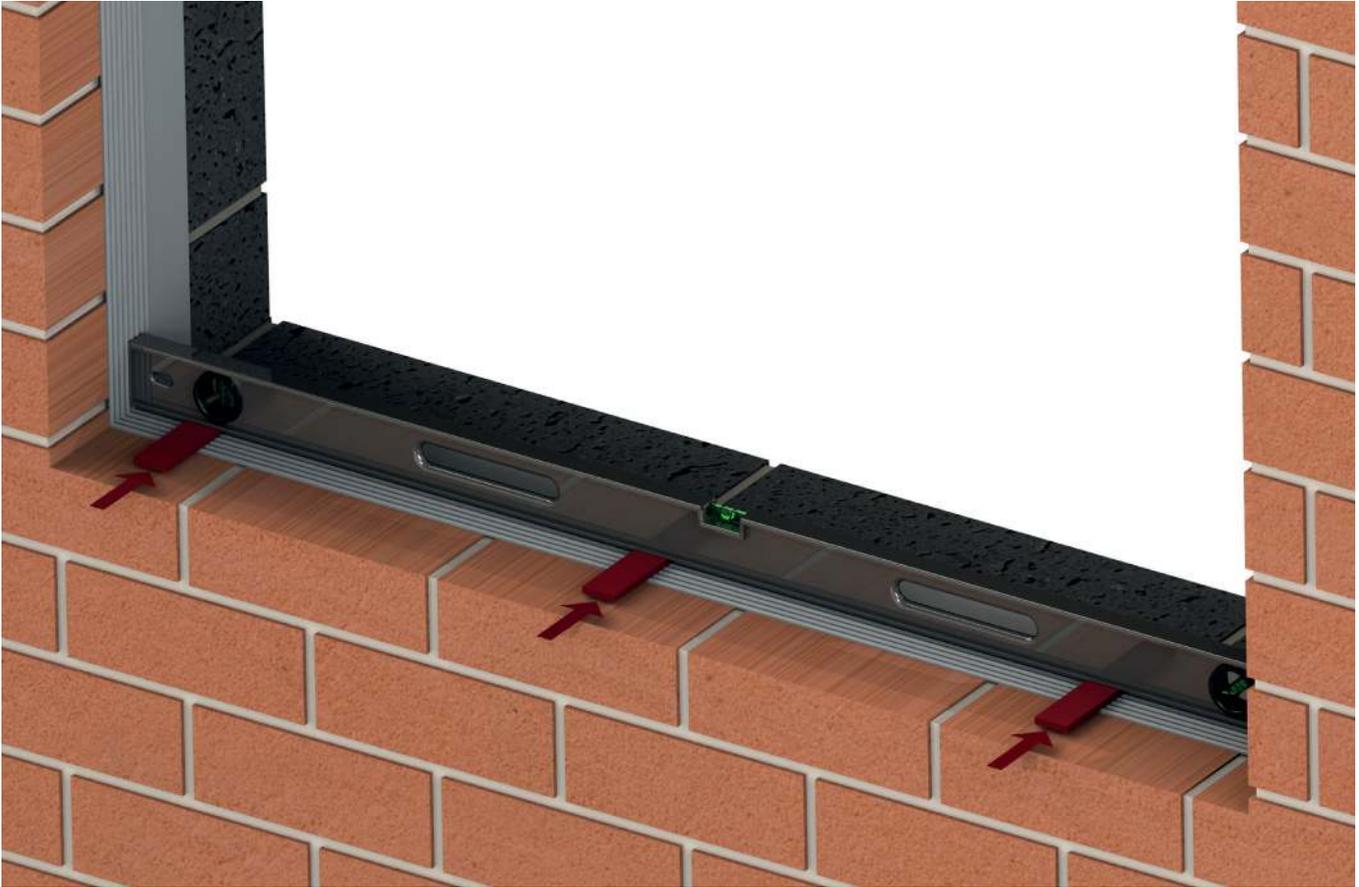


FIG 1

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 or cill to sit (Fig.1)

1. Frame Fixing (continued)

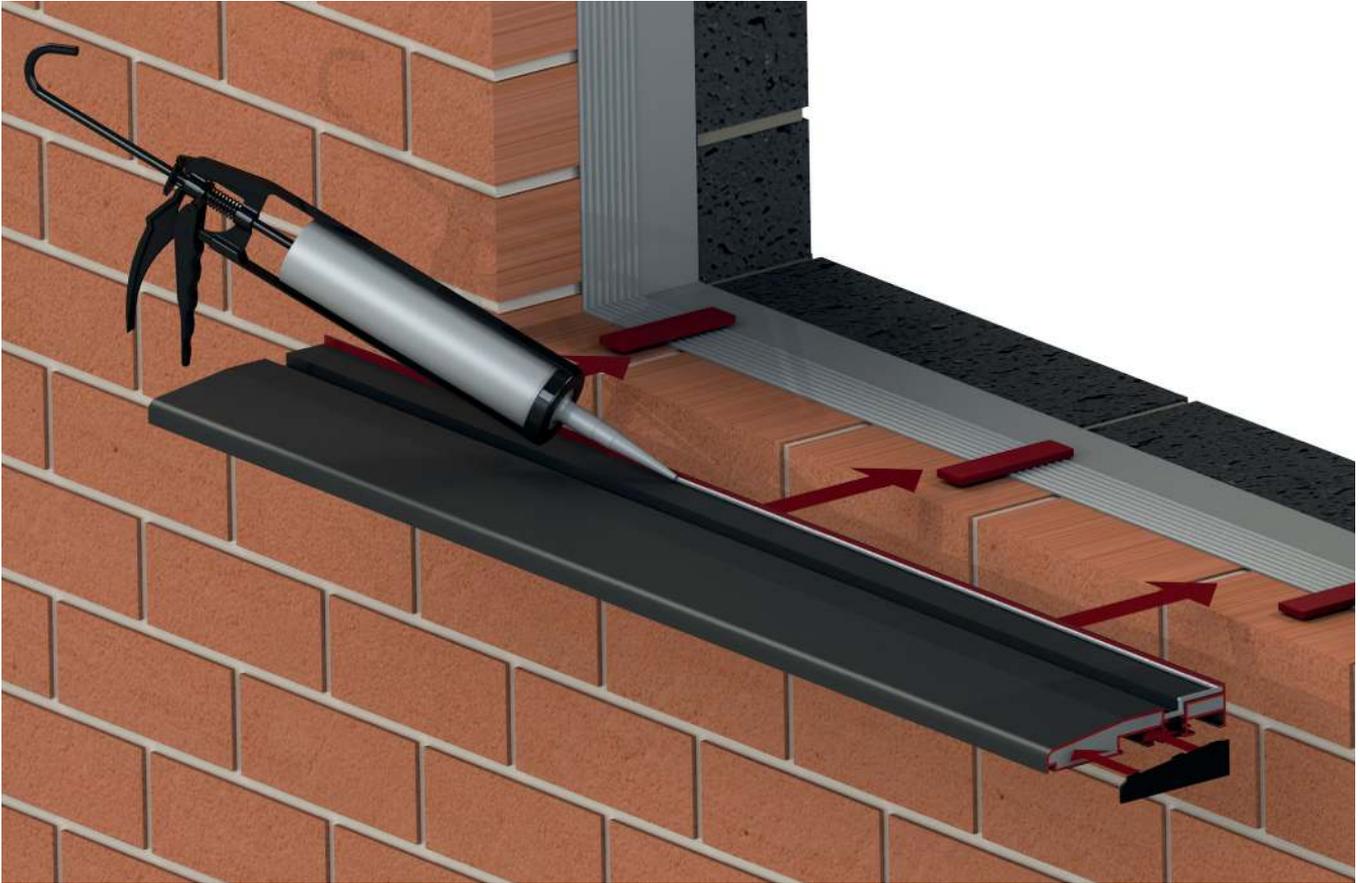


FIG 2

- ▶ 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 as required (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)

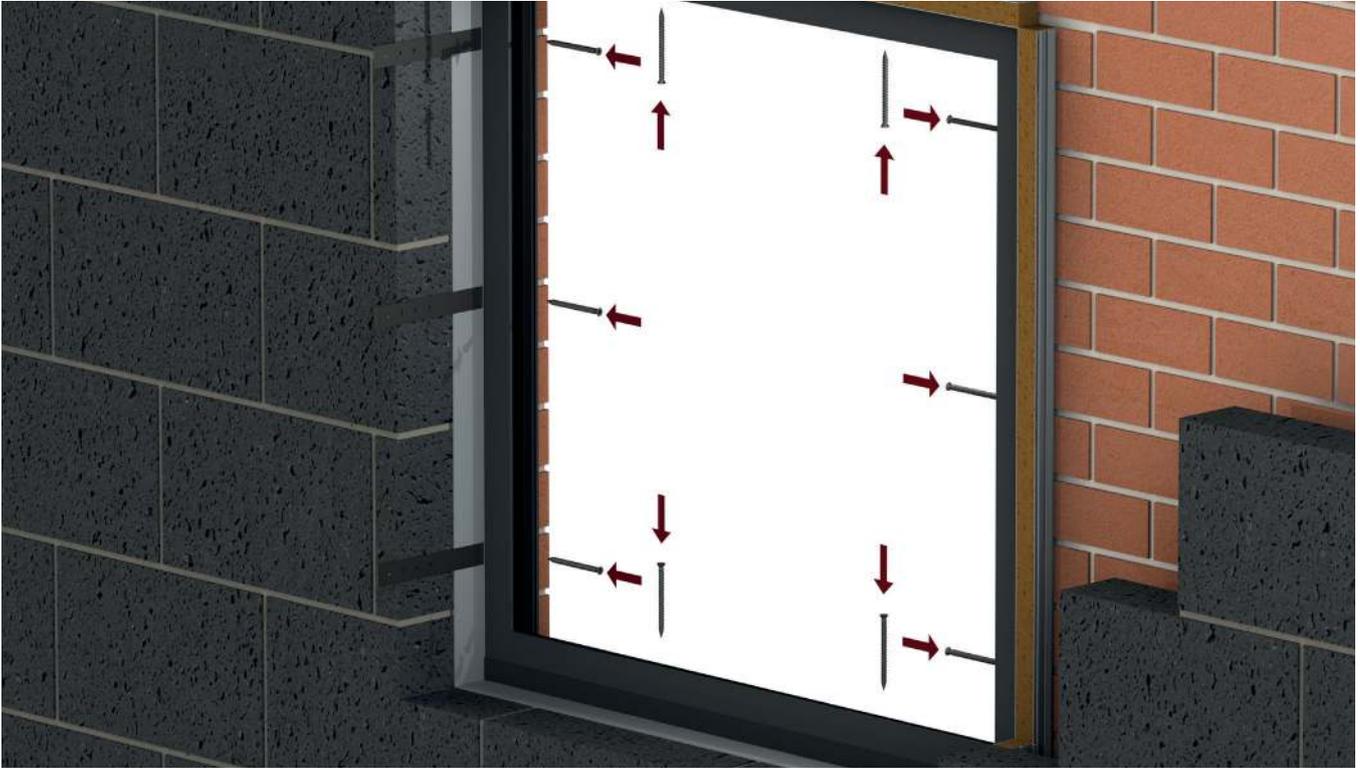


FIG 3

*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 1,800mm 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, with all four corners of the frame should be secured wherever practical.

## 2. Glazing



FIG 4

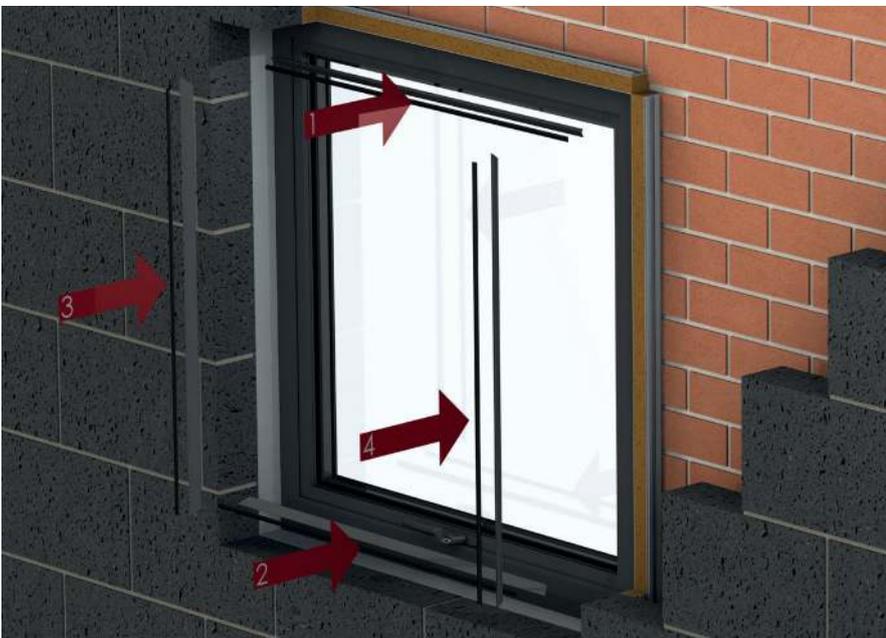


FIG 5

- ▶ 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 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 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)

# OW-70 NIGHT VENT RETRO-FIT

The new night vent keeps can be retrofitted and lined up using the single back hole. You will need 2 new screws for the front 2 holes going into metal rather than polyamide.

The recommended number of keeps is 2 for lock lengths of 280mm – 850mm, 3 for any lock over that length.

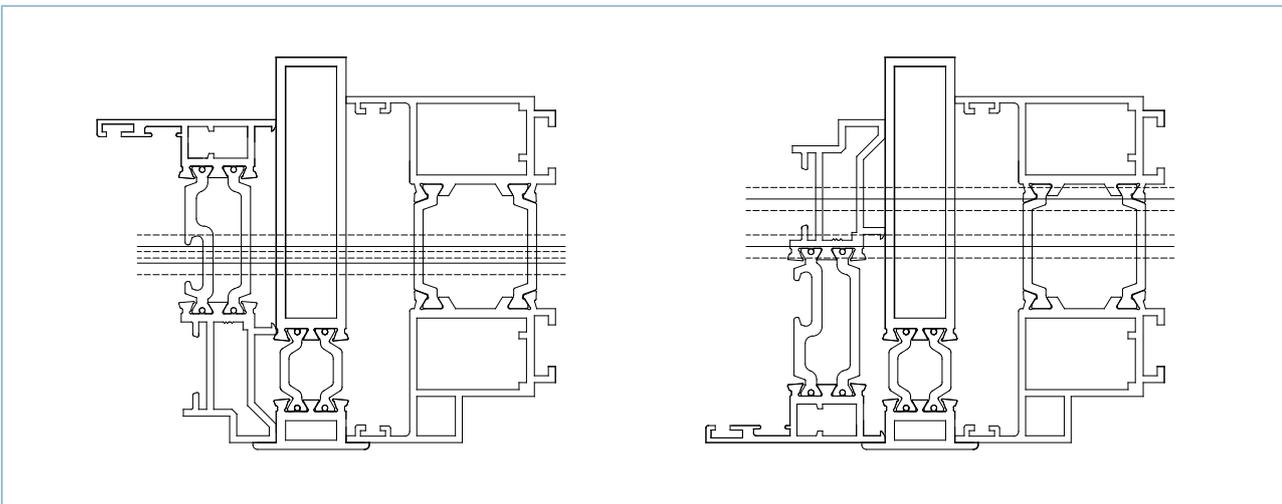
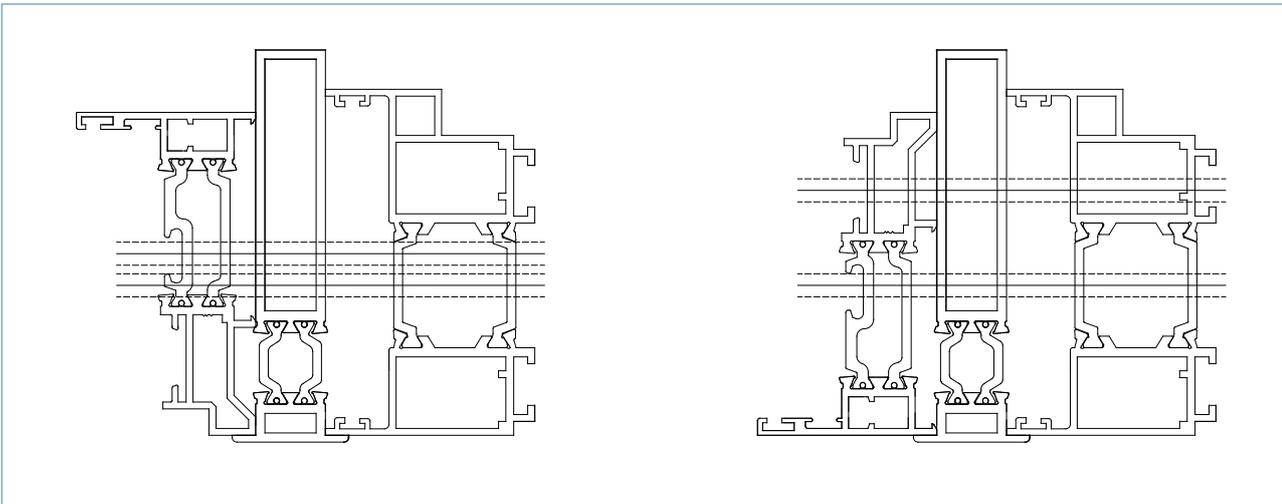
## Screw Recommendations:

- ▶ Back screw - 3.9x25 DIN 7504 Countersunk
- ▶ Front screw - to 3.9x19 DIN 7504 Countersunk

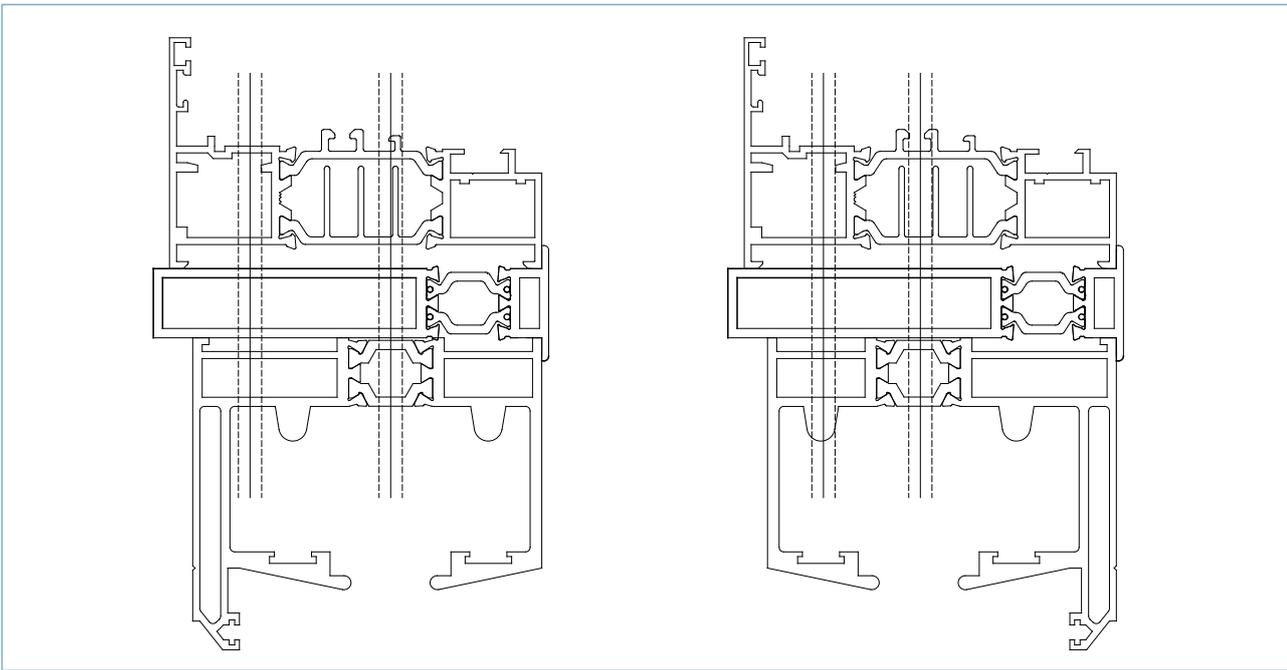
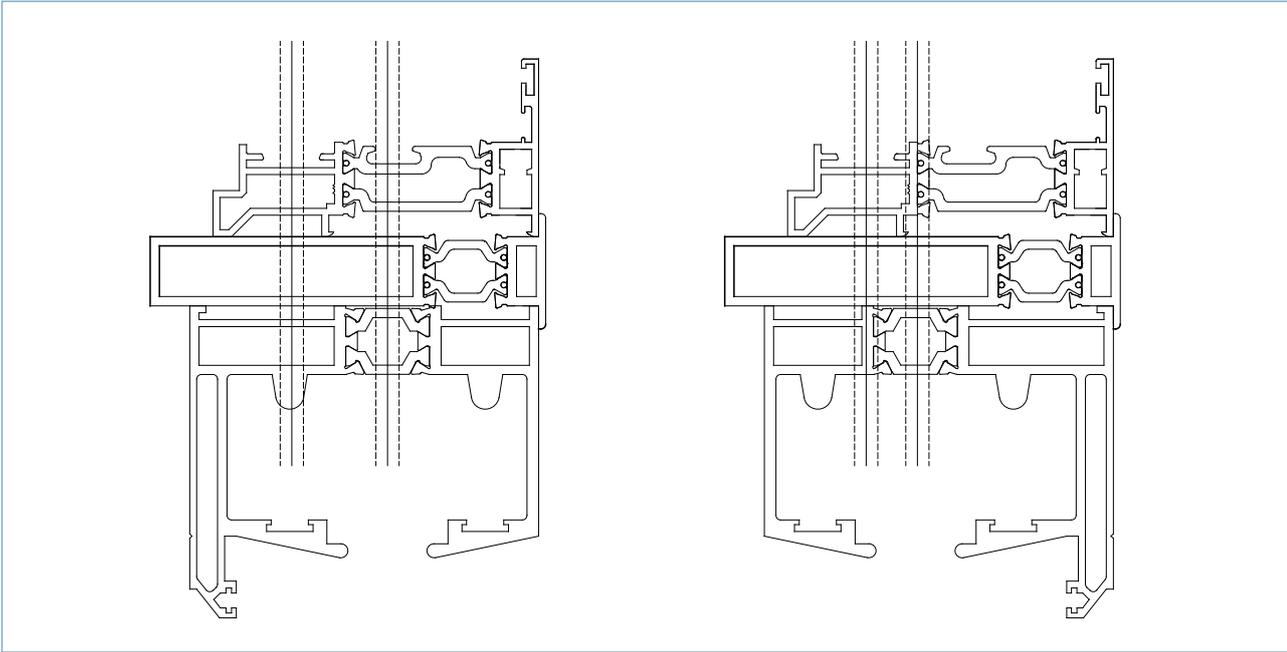


# Door to Window Installation Guide

- ▶ The coupler is only to be used vertically. The maximum length of a coupler is 3,000mm
- ▶ 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)

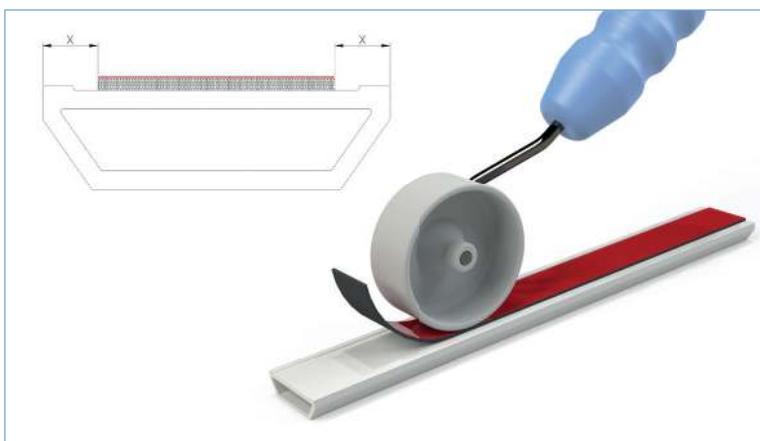


*Door to OW-70 fixing positions*



*Window above door fixing positions*

# Glazing Bar Installation Guide



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

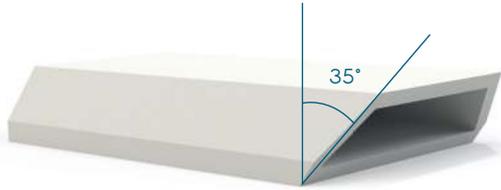
1. Once glass is fully installed, ensure the glass is clean - we recommend using a saline solution or glass primer
2. Measure the sash, and using the approximate deductions from the offset table, cut the bars to length with the appropriate angles

*Note: All deductions are oversize to reduce wastage and bars will need to be trimmed to ensure a seamless joint*

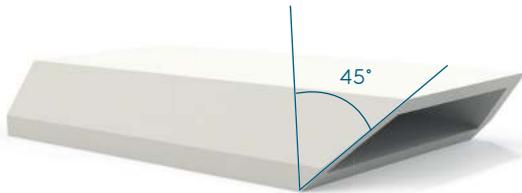
3. Clean the underside of the glazing bar using a saline solution or primer
4. Place tape on the underside of the glazing bar, ensuring it remains central along the bar - we recommend using a roller to ensure the strongest bond
5. Before removing red backing, offer the bars up to the glass and check 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

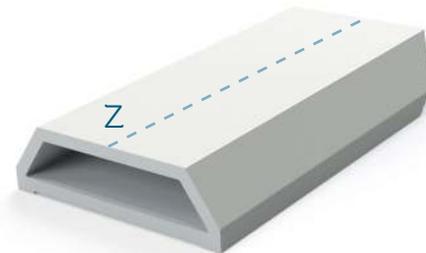
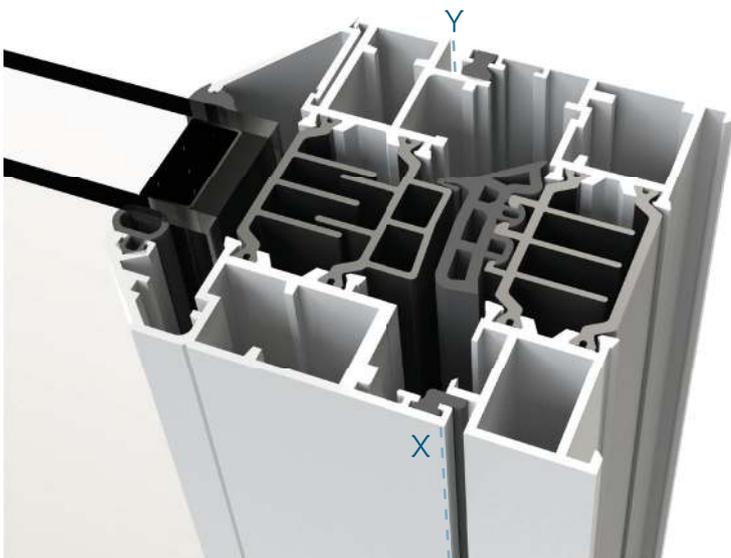
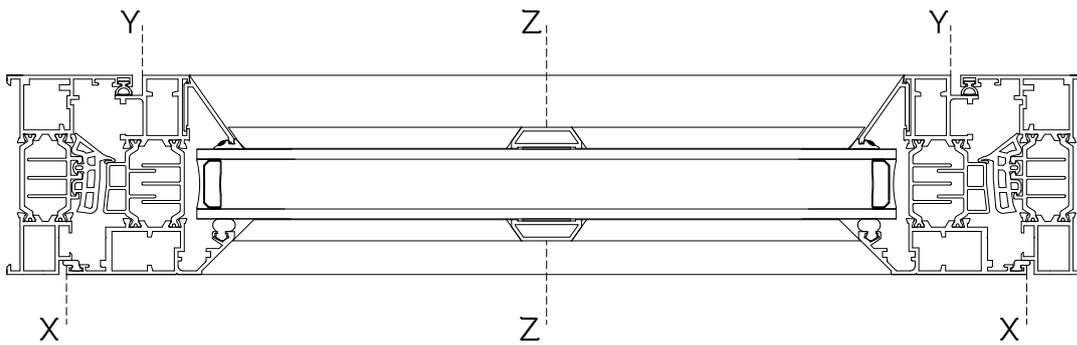


Full lengths	Cut Angle	Approximate Deduction
Sash Rebate to Sash Rebate	45°	X to X - 134mm
28mm Bead	35°	X to X - 138mm
44mm Bead	45°	X to X - 135mm

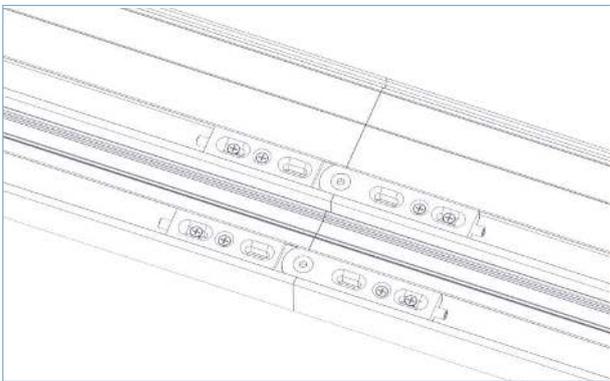
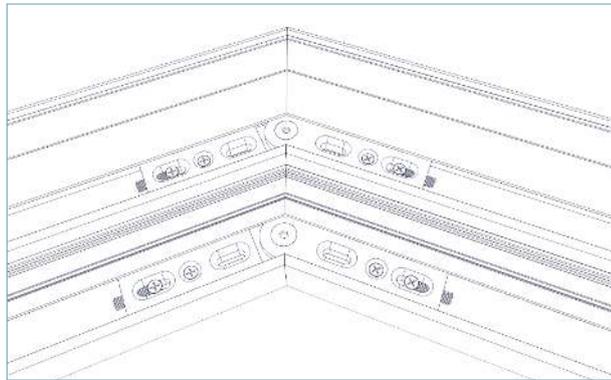
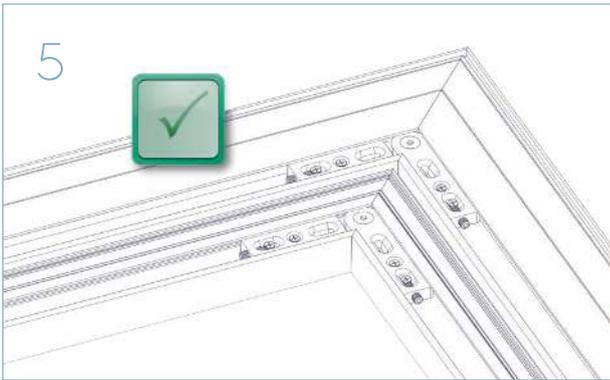
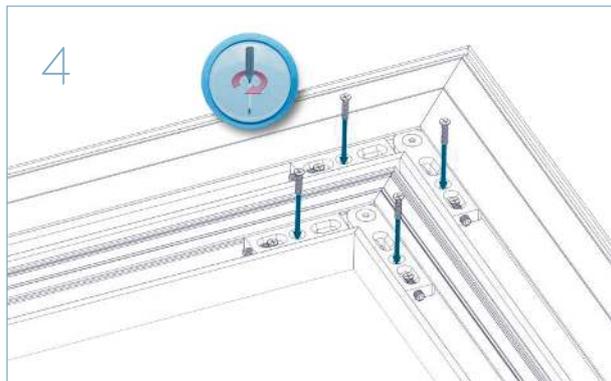
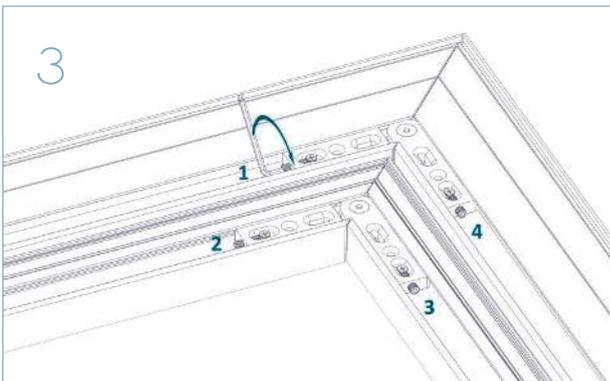
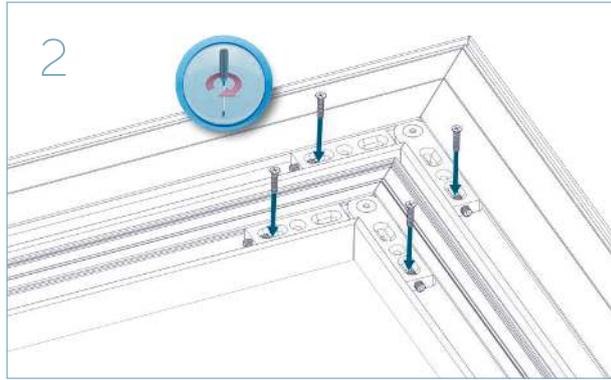
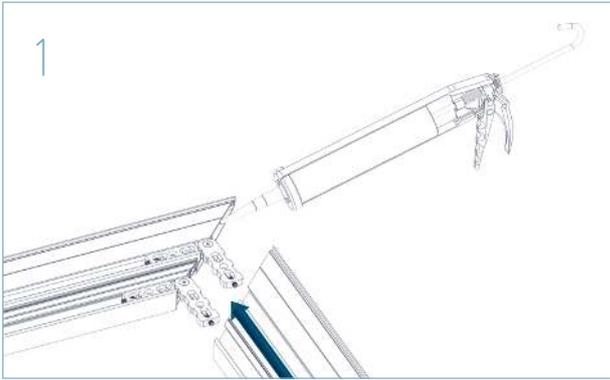


Crossover	Cut Angle	Approximate Deduction
Bar to Bar	35°	Z to Z - 25mm
Rebate to Bar	45° + 35°	X to Z - 81mm
28mm Bead to Bar	45°	Y to Z - 150mm
44mm Bead to Bar	45° + 35°	Y to Z - 149mm

(X to Y dimension = 30mm)



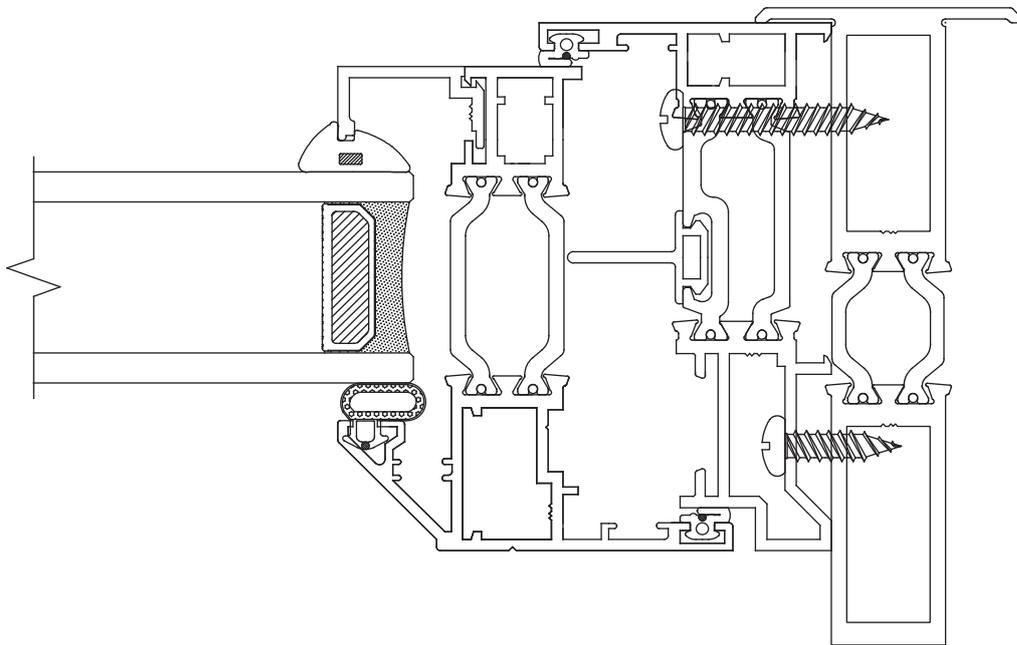
# Variable Cill Cleat Installation



# Universal Coupler Installation Guide

1

OW-70 Casement - Standard Leg

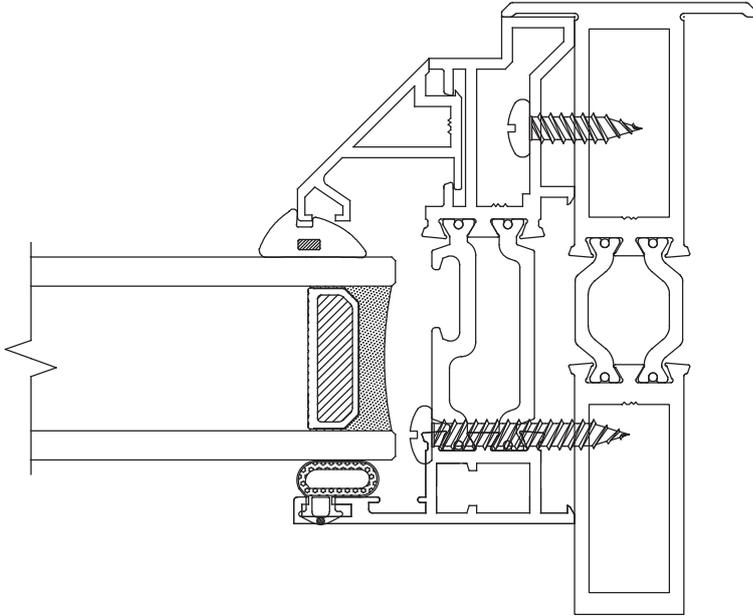


4.2 X 32 PHILLIPS PAN SELF TAPPING SCREW DIN  
7981C H A2 STAINLESS STEEL

4.2 X 16 PHILLIPS PAN SELF TAPPING SCREW DIN  
7981C H A2 STAINLESS STEEL

2

OW-70 Fixed (internally glazed) - Standard Leg

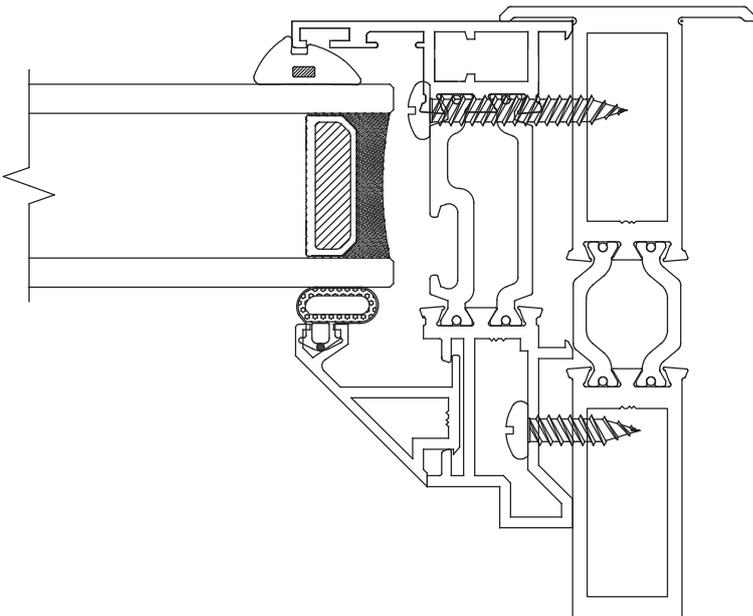


4.2 X 32 PHILLIPS PAN SELF  
TAPPING SCREW DIN  
7981C H A2 STAINLESS STEEL

4.2 X 16 PHILLIPS PAN SELF  
TAPPING SCREW DIN  
7981C H A2 STAINLESS STEEL

3

OW-70 Fixed (externally glazed) - Standard Leg

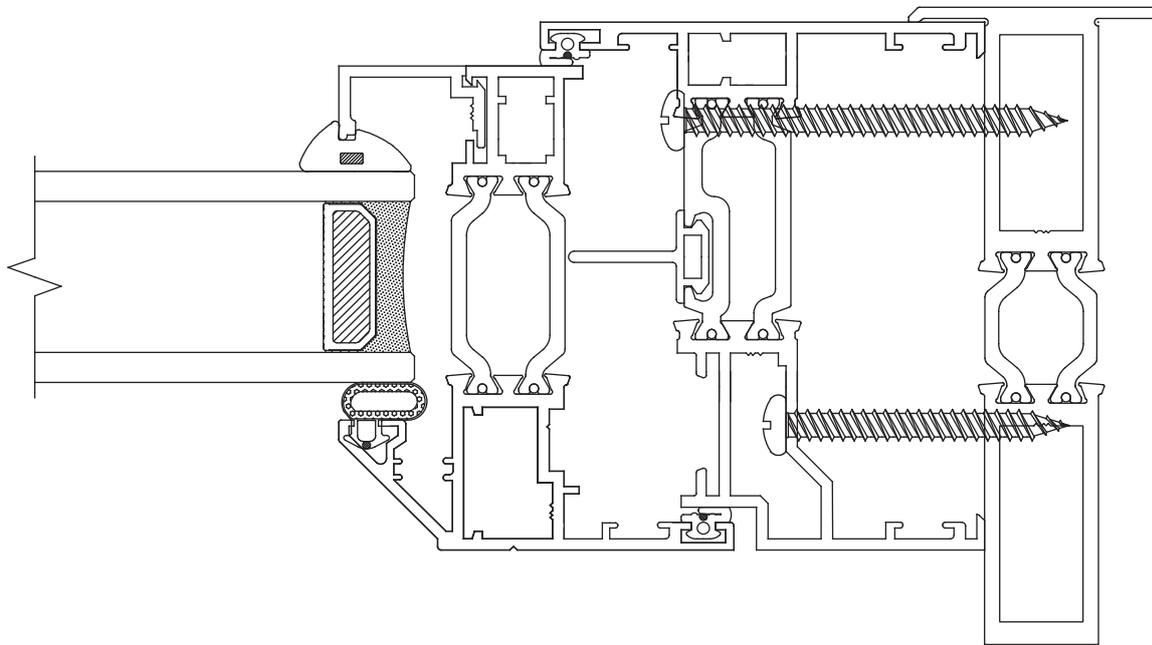


4.2 X 32 PHILLIPS PAN SELF  
TAPPING SCREW DIN  
7981C H A2 STAINLESS STEEL

4.2 X 16 PHILLIPS PAN SELF  
TAPPING SCREW DIN  
7981C H A2 STAINLESS STEEL

4

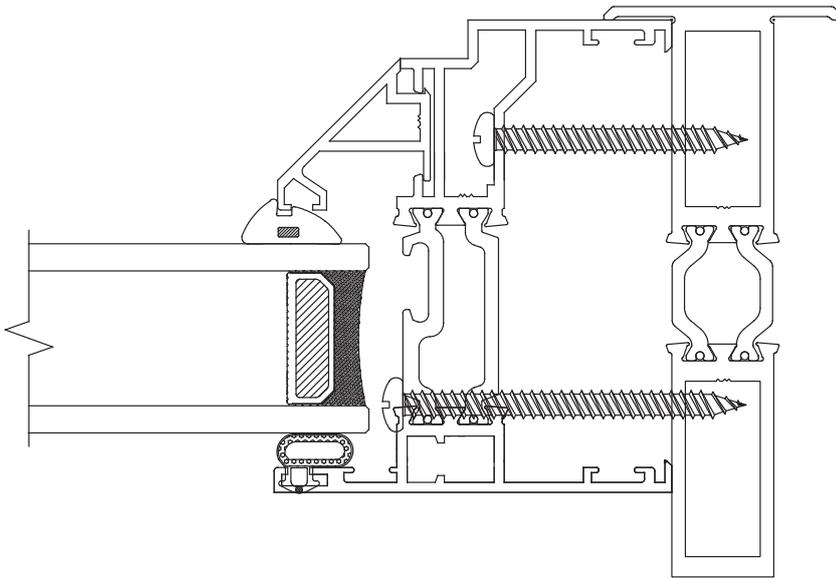
OW-70 Casement - Long Leg



4.2 X 50 PHILLIPS PAN SELF TAPPING SCREW DIN  
7981C H A2 STAINLESS STEEL

4.2 X 38 PHILLIPS PAN SELF TAPPING SCREW DIN  
7981C H A2 STAINLESS STEEL

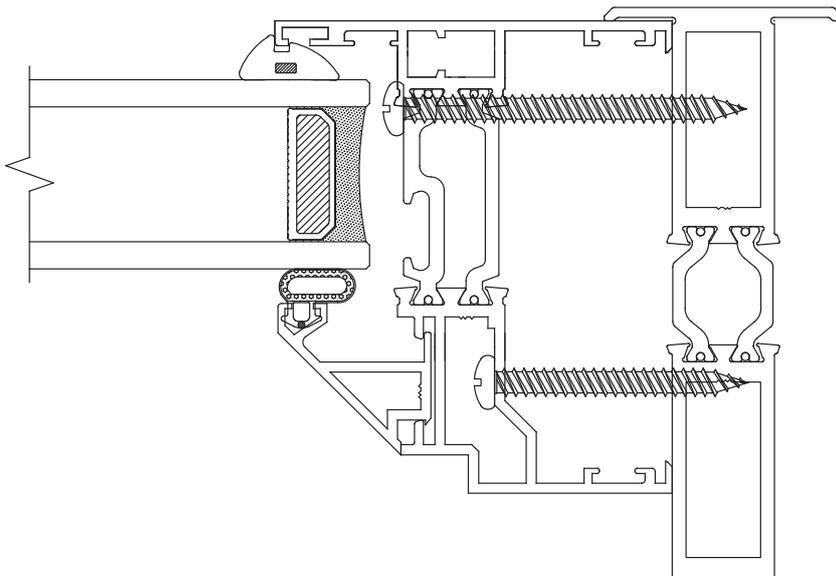
5 OW-70 Fixed (internally glazed) - Long Leg



4.2 X 50 PHILLIPS PAN SELF TAPPING SCREW DIN 7981C H A2 STAINLESS STEEL

4.2 X 38 PHILLIPS PAN SELF TAPPING SCREW DIN 7981C H A2 STAINLESS STEEL

6 OW-70 Fixed (externally glazed) - Long Leg



4.2 X 50 PHILLIPS PAN SELF TAPPING SCREW DIN 7981C H A2 STAINLESS STEEL

4.2 X 38 PHILLIPS PAN SELF TAPPING SCREW DIN 7981C H A2 STAINLESS STEEL

# 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.
- 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.

# Contact

## Accounts

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