

Slimline Window (OW-70) Specification File



Contents

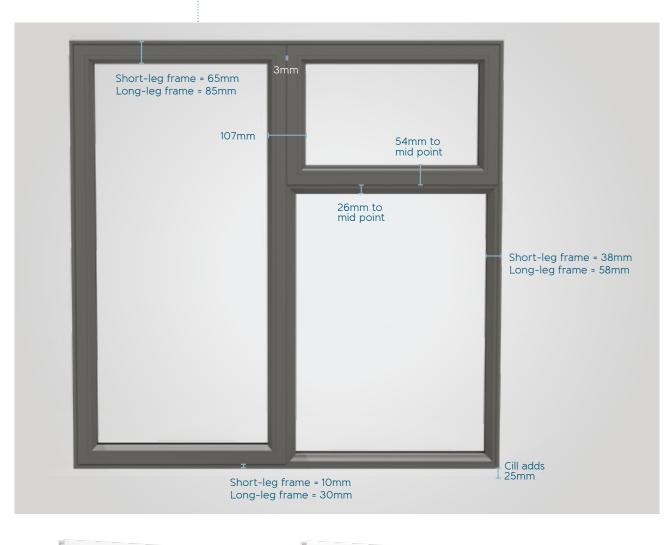
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CT OF

Specification Overview

Thermally Broken Aluminium Window

External view of the OW-70





Profile Spec	ification		
Frame and Sash Sightline	Short-leg Frame 65mm	Long-leg Frame 85mm	
Outer Frame Depth		70mm	
Sash Depth		64mm	

Mullion and Sash Sightline

Features

- Up to a 20-year guarantee*
- Square or chamfered bead option
- External flush casement
- Mechanically double crimped corners
- Nemesis espag locking mechanism

Options and extras

- Casement, bay and fixed configurations available
- Metallic or colour-coded handles
- Accommodates double and triple glazing, with a 28mm glazing unit size available

80mm

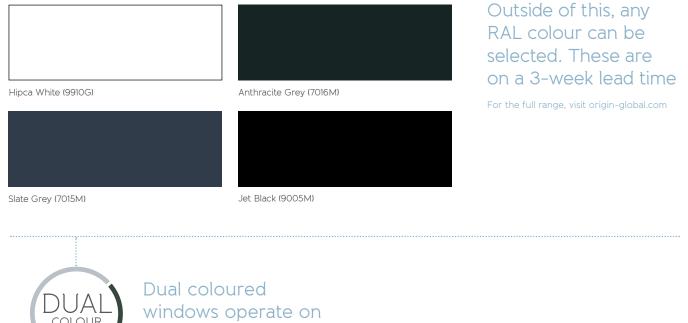
- Open-out, fixed or dummy sash
- 95, 155, 180 and 225mm cill options available
- Available in over 150 different RAL colours
- Colour-coded gaskets are available as an option
- 35mm frame extender option
 - Restrictor hooks available
- Egress hardware
- 2500EA trickle vents available
- Window-to-window coupling option available
- Marine grade hinges

*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.

4 of our popular colours are available on a 1-week lead time





a 3-week lead time

Lead Times

Popular colour casement and fixed windows:	1-week
Special RAL colour casement and fixed windows:	3-weeks
Dual colour casement and fixed windows:	3-weeks
Bay windows* (all colours):	4-weeks

More colours, including woodgrain options, are available on our 'Your Lead Time, Not Ours' delivery promise on the OW-80 Premium Window range

*Bay windows are only available on the Long-leg frame

Drainage cap colours

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

Security

The OW-70 has been designed with security in mind. Being PAS 24:2016 and Secured by Design accredited, we have ensured that despite its slim nature, it still possesses components of the highest quality to ensure its security.

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 corporates stainless steel faceplate drive bars and mushroom cams to enhance both its appearance and longevity.

For more information about Secured by Design, please see page 66.



Optional Extras

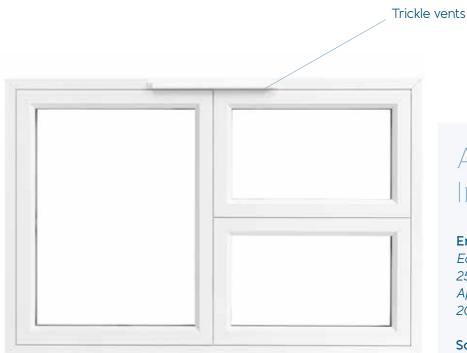
Restrictor Hooks

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



Trickle Vents

Trickle vents can be fitted through the long-leg frame or through a 35mm frame extender.* See page 43 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.

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Handles

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

Inline handle range

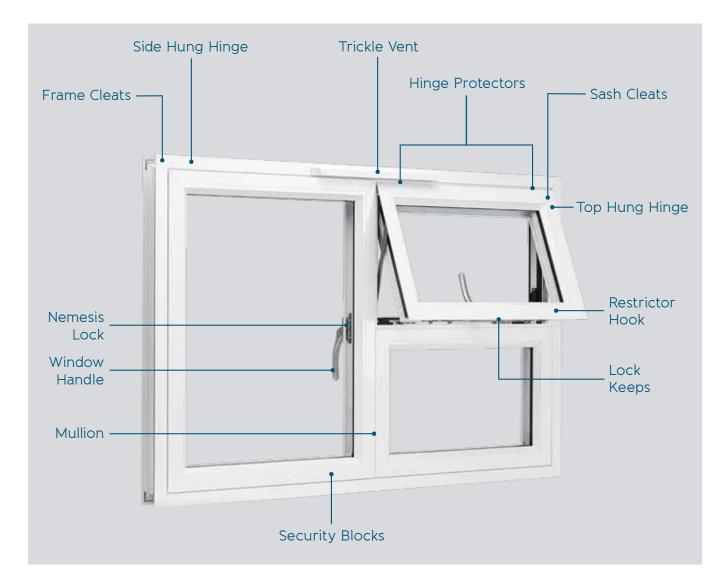


Offset colour-matched handle range

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



Window Make-Up



Performance and Limitations

Thermal Ratings

	Short-leg frame:	Long-leg frame:
u-Value	up to 1.2W/m2.K*	1.2W/m2.K*
See pages 14-27 for t	hermal simulation results.	

Weather Rating

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

Performance Testing

PAS 24:2016 Certified (Document Q Compliant)

Secured by Design Accredited

Size and Weight Limitations

	Width	Height	Weight
	Maximum	Dimensions:	
Side Hung:	Max: 950mm**	Max: 1400mm**	Max: 35kg***
	Maximum	Dimensions:	
Top Hung:	Max: 1374mm**	Max: 1474mm**	Max: 50kg***

Please note: the minimum and maximum sizes vary depending on the configuration. See page 30-33 for more information.

Maximum coupling lengths: 3000mm****

Building Regulation Requirements

New Build	
and Extensions	2.0W/m ² K
Replacements	1.6W/m²K
Energy Rating	B or better

All windows must conform to these requirements.

*Short-leg based on using glass with centre pane of 0.6W/m2.K. Long-leg based on using glass with centre pane of 0.6W/m2.K.

**Max sizes refer to the maximum overall frame and sash size for an individual window.

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

****Depends on window size and wind loading.

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 have a u-Value of up to 1.2.



Certificate of thermal simulation

PRODUCT:	OW-70 - SHORT-LEG/ LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	0.6W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME: P954 OR P958, SASH: P955
BEAD:	28ММ
GLASS SPEC:	4MM CLEAR - 8MM KRYPTON - 4MM PLANITHERM 4SII - 8MM KRYPTON - 4MM PLANITHERM
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.2W/m2K

TESTED BY:David Ginger (Product Compliance Director)DATE:10/07/2018SIGNED:David Ginger

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_18.70.1 DOORS AND WINDOWS

Certificate of thermal simulation

PRODUCT:	OW-70 - SHORT-LEG/ LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	0.7W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME: P954 OR P958, SASH: P955
BEAD:	28MM
GLASS SPEC:	4MM CLEAR - 6MM AIR - 4MM PLANITHERM 4SII - 10MM KRYPTON - 4MM PLANITHERM 4SII
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.3W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE: SIGNED:

D.Ginger

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10/07/2018

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OV-VC

Certificate of thermal simulation

PRODUCT:	OW-70 - SHORT-LEG/ LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	0.9W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME: P954 OR P958, SASH: P955
BEAD:	28MM
GLASS SPEC:	4MM CLEAR - 8MM ARGON - 4MM PLANITHERM 4SII - 8MM ARGON - 4MM PLANITHERM 4SII
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:



TESTED BY:David Ginger (Product Compliance Director)DATE:10/07/2018SIGNED:Signer

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PRODUCT:	OW-70: SHORT-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	1.0W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME: P954, SASH: P955
BEAD:	28ММ
GLASS SPEC:	4MM CLEAR - 20MM 90% ARGON - 4MM PLANITHERM 4SI
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.5W/m2K

TESTED BY: David Ginger (Product Compliance Director) DATE:

SIGNED:

10/07/2018



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Certificate of thermal simulation

PRODUCT:	OW-70: SHORT-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	1.2W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME: P954, SASH: P955
BEAD:	28ММ
GLASS SPEC:	4MM CLEAR - 20MM 90% ARGON - 4MM PLANITHERM TOTAL+
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.6W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE:

SIGNED:

D.Ginger

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

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Certificate of thermal simulation

PRODUCT:	OW-70 - SHORT-LEG/ LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	0.6W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME: P954 OR P958, SASH: P955
BEAD:	28MM
GLASS SPEC:	4MM CLEAR - 8MM KRYPTON - 4MM PLANITHERM 4SII - 8MM KRYPTON - 4MM PLANITHERM
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.2W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE: SIGNED:

D.Ginger

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10/07/2018

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OV-VC

Certificate of thermal simulation

PRODUCT:	OW-70 - SHORT-LEG/ LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	0.7W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME: P954 OR P958, SASH: P955
BEAD:	28MM
GLASS SPEC:	4MM CLEAR - 6MM AIR - 4MM PLANITHERM 4SII - 10MM KRYPTON - 4MM PLANITHERM 4SII
SPACER BAR	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.3W/m2K

TESTED BY: David Ginger (Product Compliance Director) 10/07/2018 DATE: SIGNED:

orio

DOORS AND WINDOWS

D.Ginger

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OFDL_18.71.1

Certificate of thermal simulation

PRODUCT:	OW-70 - SHORT-LEG/ LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	0.9W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME: P954 OR P958, SASH: P955
BEAD:	28MM
GLASS SPEC:	4MM CLEAR - 8MM ARGON - 4MM PLANITHERM 4SII - 8MM ARGON - 4MM PLANITHERM 4SII
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.4W/m2K

TESTED BY: David Ginger (Product Compliance Director)

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OV-VC

Certificate of thermal simulation

PRODUCT:	OW-70: LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	1.0W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME: P958, SASH: P955
BEAD:	28MM
GLASS SPEC:	4MM CLEAR - 20MM 90% ARGON - 4MM PLANITHERM 4SI
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.5W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE:

SIGNED:

D.Ginger

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Certificate of thermal simulation

PRODUCT:	OW-70: LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	1.2W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME:P958, SASH:P955
BEAD:	28ММ
GLASS SPEC:	4MM CLEAR - 20MM 90% ARGON - 4MM PLANITHERM TOTAL+
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.6W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE: SIGNED: 10/07/2018 D.Ginger

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OV-VC

Certificate of thermal simulation

PRODUCT:	OW-70: LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	1.2W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME:P958, SASH:P955
BEAD:	28ММ
GLASS SPEC:	4MM CLEAR - 20MM 90% ARGON - 4MM PLANITHERM TOTAL+
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.6W/m2K

TESTED BY:David Ginger (Product Compliance Director)DATE:10/07/2018SIGNED:Signer

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Certificate of thermal simulation

PRODUCT:	OW-70: LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	1.2W/M2K
INSULATION:	STANDARD
PROFILE SPEC:	FRAME:P958, SASH:P955
BEAD:	28ММ
GLASS SPEC:	4MM CLEAR - 20MM 90% ARGON - 4MM PLANITHERM TOTAL+
SPACER BAR:	SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

1.6W/m2K

TESTED BY: David Ginger (Product Compliance Director)

DATE: SIGNED: 10/07/2018 Definger

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OV-VC

Certificate of thermal simulation

	PRODUCT:	OW-70: SHORT-LEG FRAME
	SIM - SOFTWARE:	WIN ISO 2D PRO
	GLASS CENTRE PANE U-VALUE:	1.2W/m ² K
	INSULATION:	NONE
	SOLAR FACTOR (G WINDOW)	0.52
	AIR PERMIABILITY (@ 50PA)	0.00W/m ² K
	PROFILE SPEC:	FRAME:P954, SASH:P955
	BEAD:	28mm
	GLASS SPEC:	4mm DIAMANT - 20mm 90% ARGON - 4mm PLANITHERM TOTAL+
	SPACER BAR:	SWISSPACER ULTIMATE
	THERMAL TRANSMITTANCE:	1.6W/m ² K
	ENERGY RATIN	G:
_	A +3	
	TESTED DV.	David Ginger (Product Compliance Director)
		10/07/2018
Origin Global HQ, Stuart House, Castle Estate, Coronation Road,		
	OFDL_18.87.1	

Certificate of thermal simulation

PRODUCT:	OW-70: LONG-LEG FRAME
SIM - SOFTWARE:	WIN ISO 2D PRO
GLASS CENTRE PANE U-VALUE:	1.2W/m ² K
INSULATION:	STANDARD
SOLAR FACTOR (G WINDOW)	0.49
AIR PERMIABILITY (@ 50PA)	0.00W/m ² K
PROFILE SPEC:	FRAME:P958, SASH:P955
BEAD:	28mm
GLASS SPEC:	4MM DIAMANT - 20mm 90% - 4MM PLANITHERM TOTAL+
SPACER BAR:	ARGON SWISSPACER ULTIMATE
THERMAL TRANSMITTANCE:	1.6W/m ² K

ENERGY RATING:

B -2

 TESTED BY:
 David Ginger (Product Compliance Director)

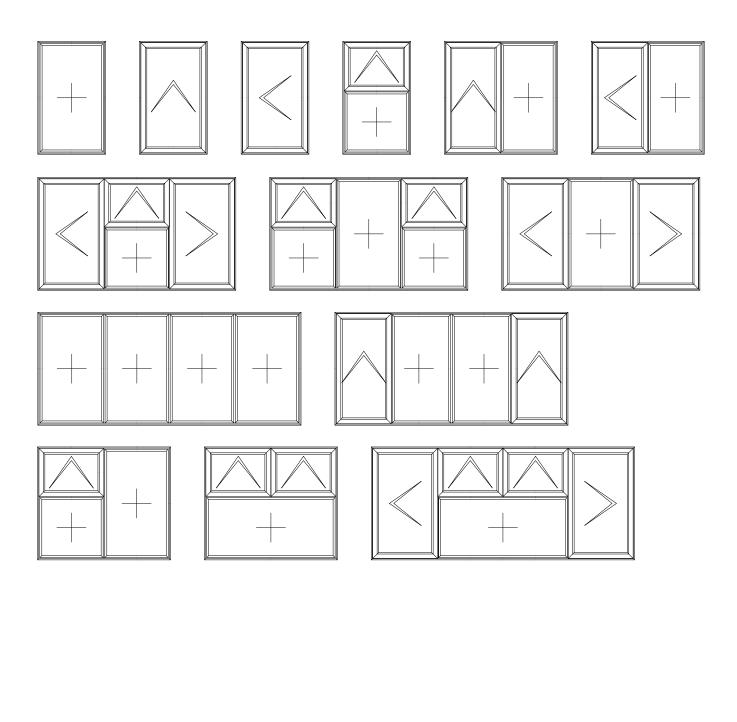
 DATE:
 10/07/2018

 SIGNED:
 Image: Compliance Director)

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Popular Configurations





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

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 0.33m² 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; 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.

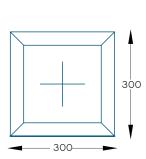
Note 1. Approved Document K protection from falling, collision and impact specifies a minimum guarding height of 800mm, except in the case of a window in a roof where the bottom of the opening may be 600mm above the floor.

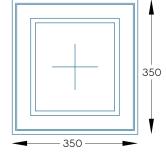
Note 2. Locks (with or without removable keys) and stays may be fitted to egress windows, subject to the stay being fitted with a release catch, which may be child resistant.

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.

Size Guidelines

Minimum Frame Dimensions





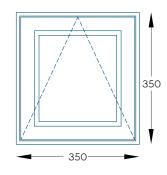
Fixed frame

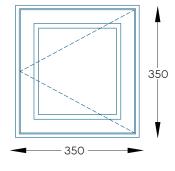
Min height = 300mm* Min width = 300mm**

Min height = 350mm* Min width = 350mm**

Dummy sash

Maximum Frame Dimensions





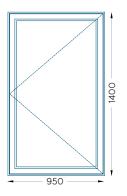
Top hung

Min height = 350mm* Min width = 355mm**

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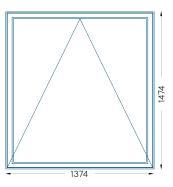
Side hung

Min height = 350mm* Min width = 350mm**



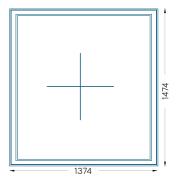
Side hung

Max height = 1300mm Max width = 700mm Maximum glazed sash weight = 28kg***



Top hung

Max height = 1200mm Max width = 1200mm Maximum glazed sash weight = 50kg***



Dummy sash

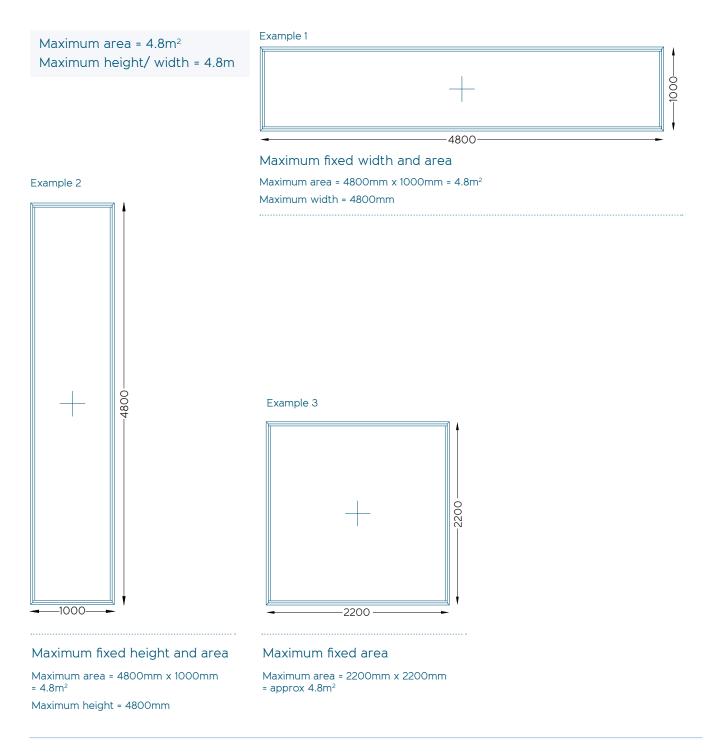
Max height = 1474mm Max width = 1374mm Maximum glazed sash weight = 50kg***

*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.

Fixed Frame Maximum Dimensions



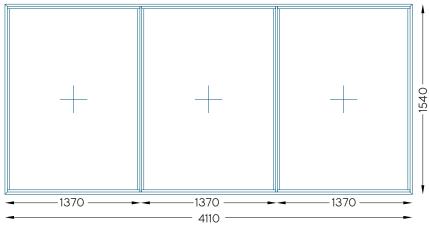
Fixed windows over 4.8sqm cannot be coupled using Origin couplers.

Size Guidelines

Maximum Mullion/ Transom Length

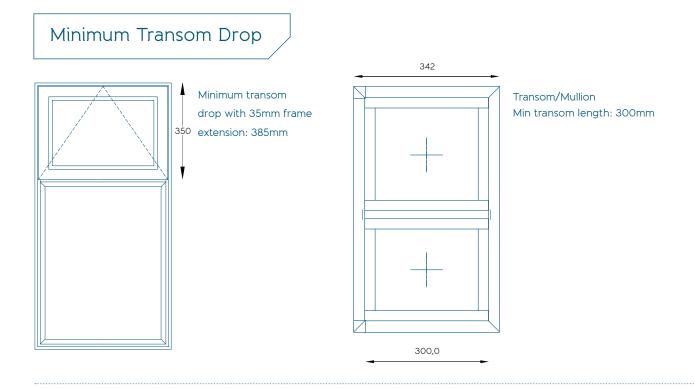
Maximum glazed area next to mullion/ transom: = 2.055m² Maximum height: = 1540mm

Example 1

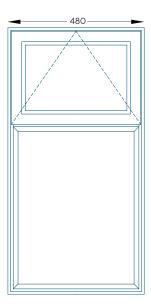


Maximum mullion length and glazed area next to a mullion/ transom

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



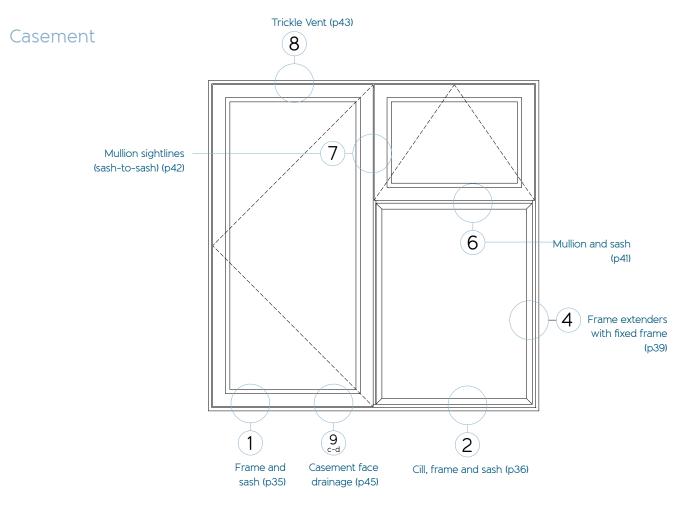
Minimum Frame Width With Trickle Vent

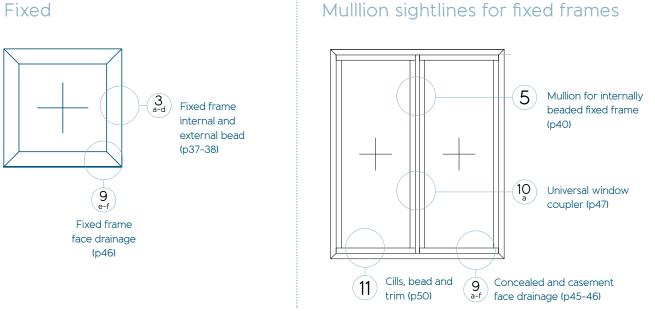


The minimum width for a 2500EA trickle vent to go through a 35mm add-on is 400mm.*

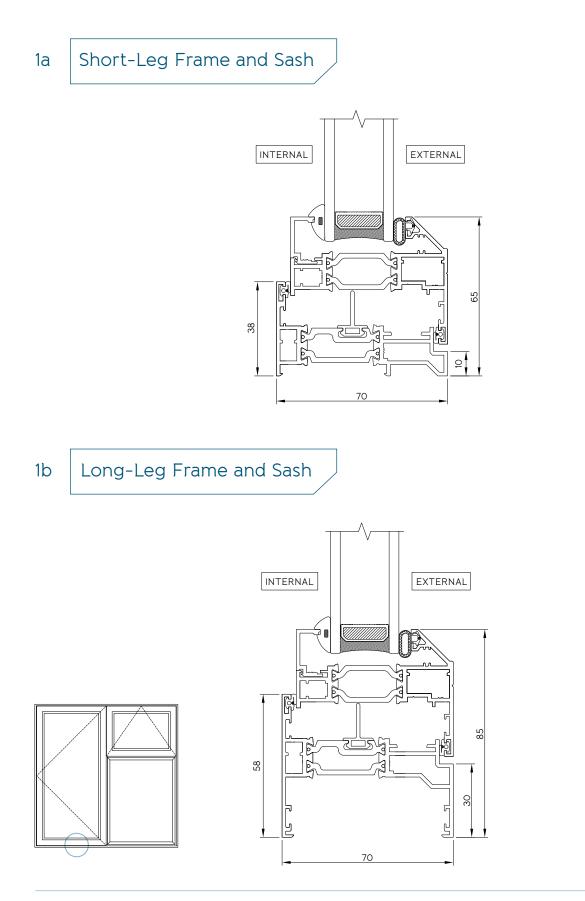
*Minimum airflow requirements to be adhered to as per building regulations.

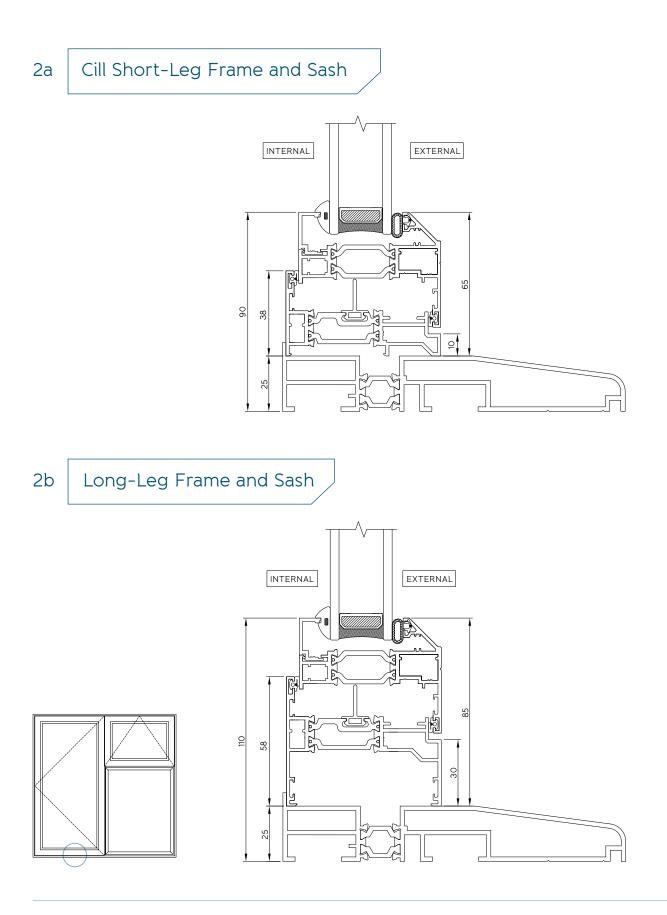
Technical Drawings

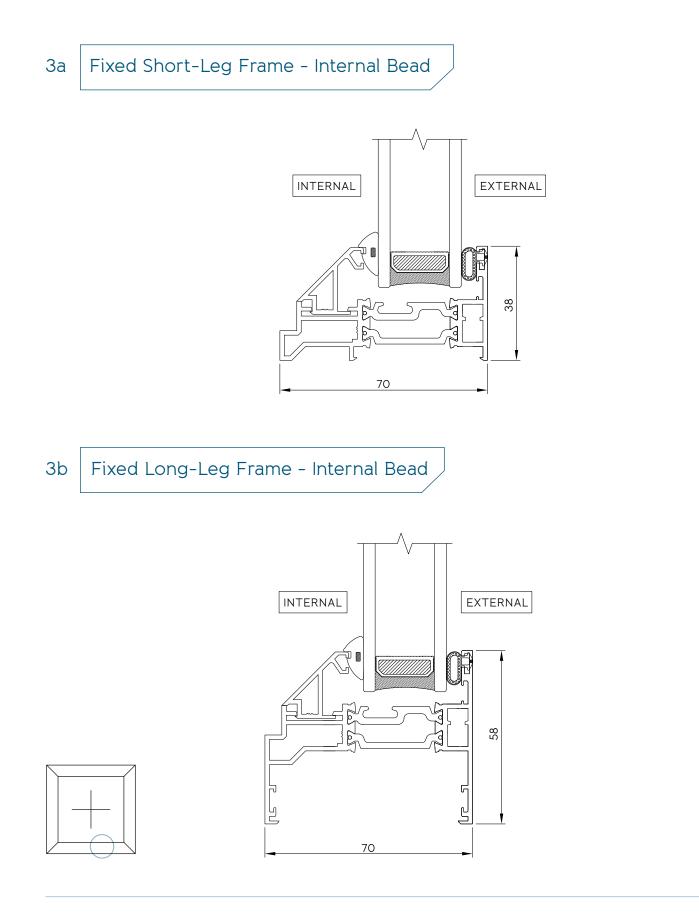


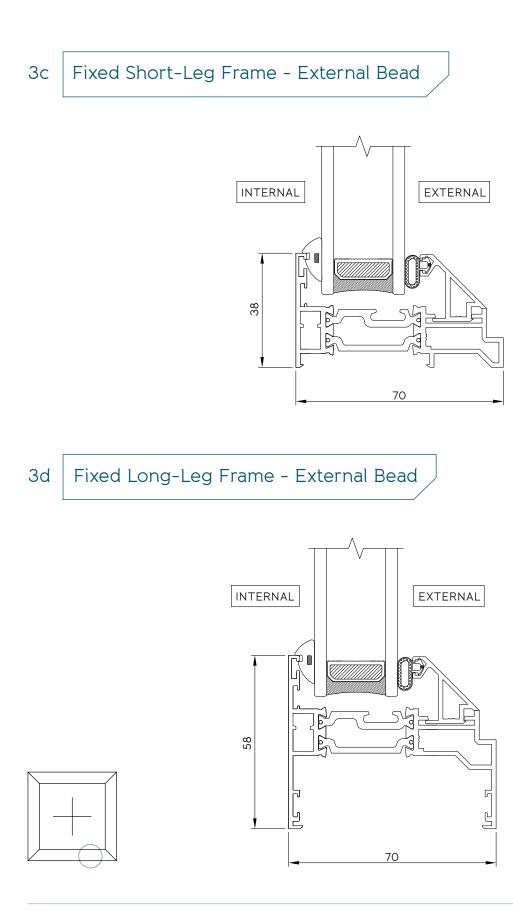


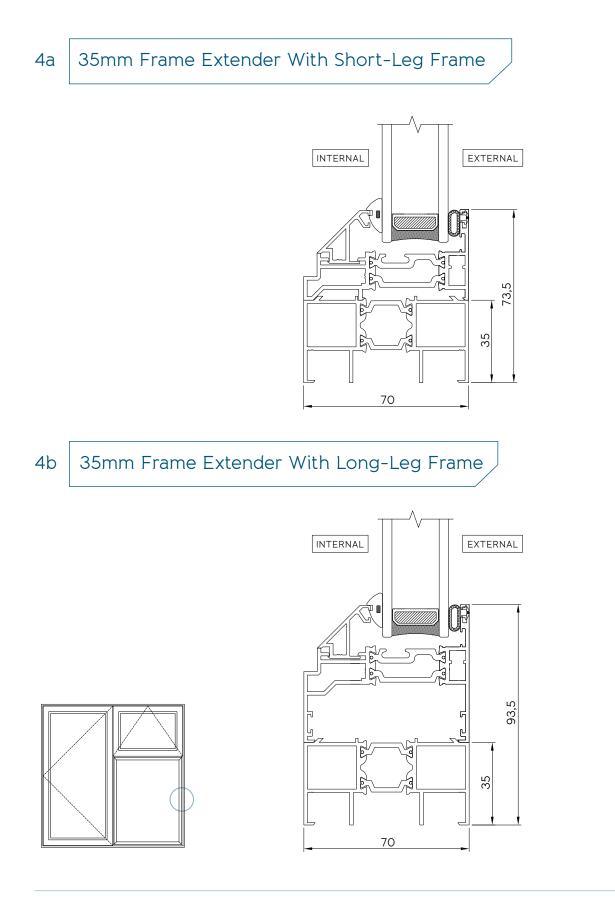
Mulllion sightlines for fixed frames





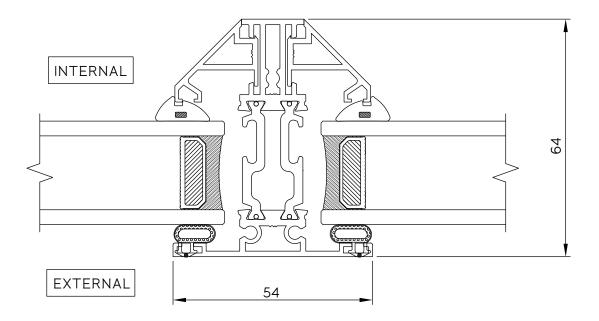


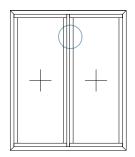




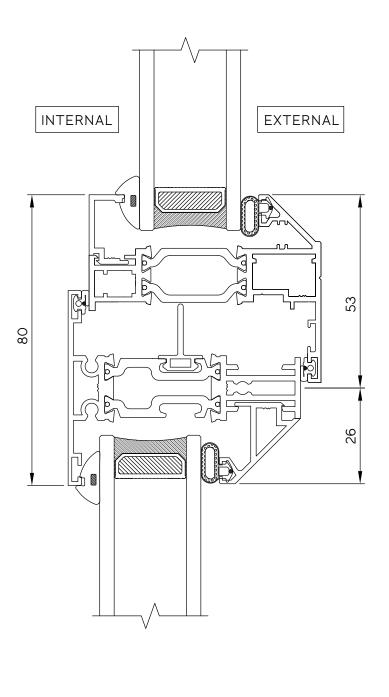
DV-7C

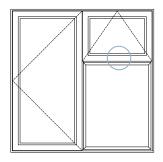
5 Mullion Sightlines For Internally Beaded Fixed Frames





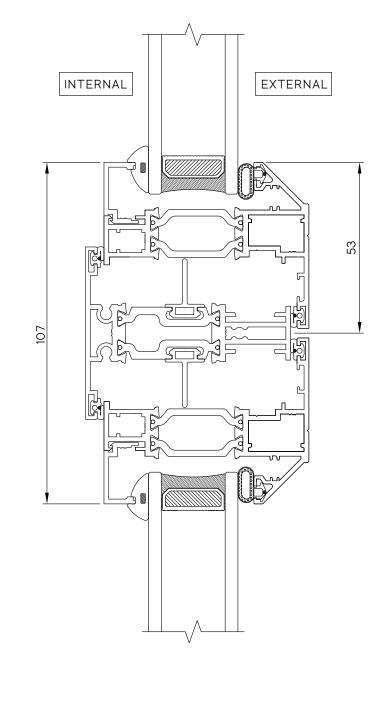


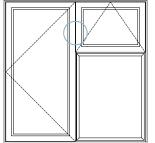




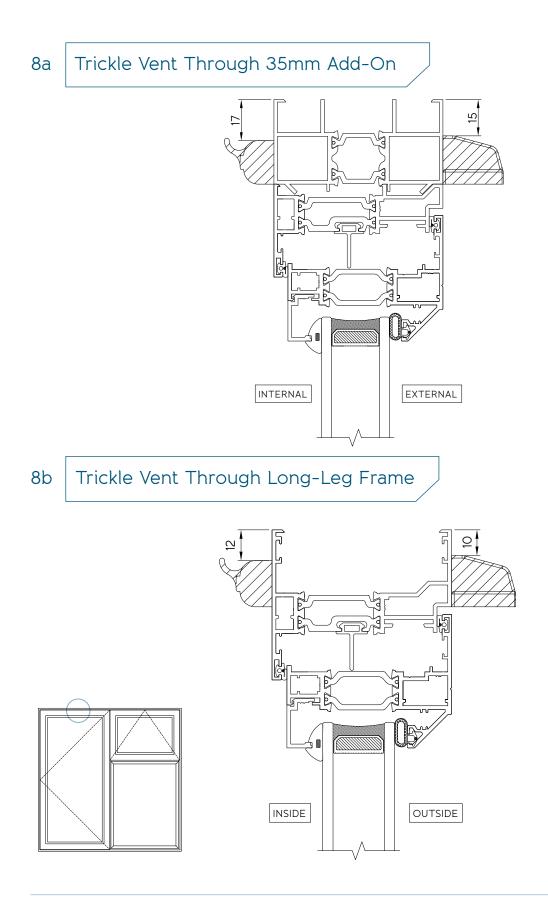
DW-7C

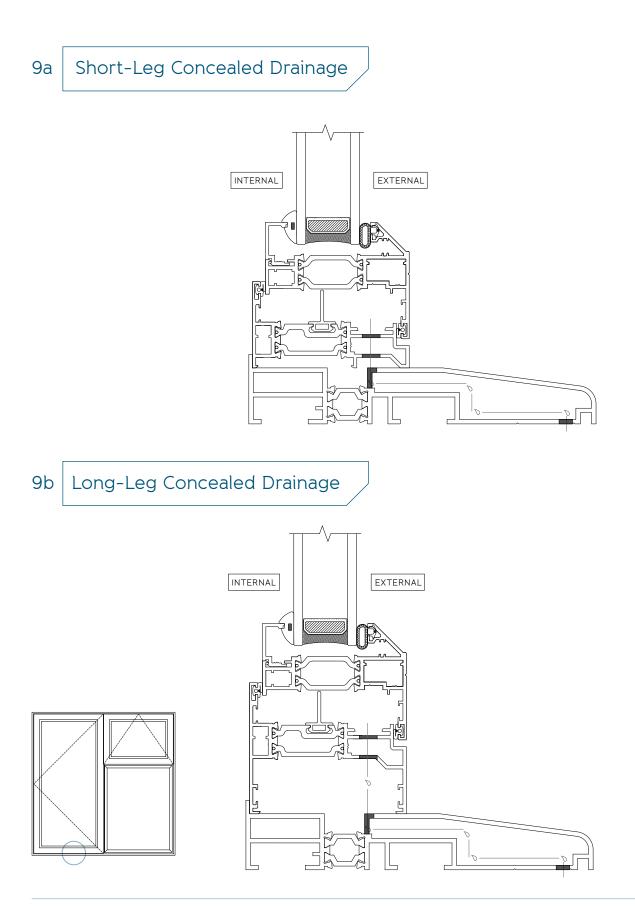
7 Mullion and Double Sash

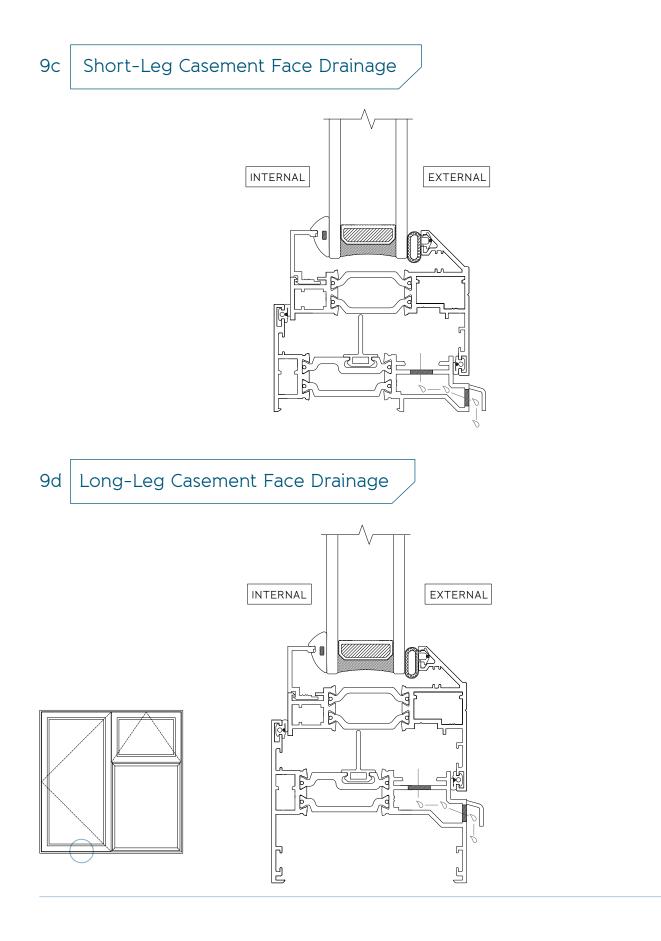


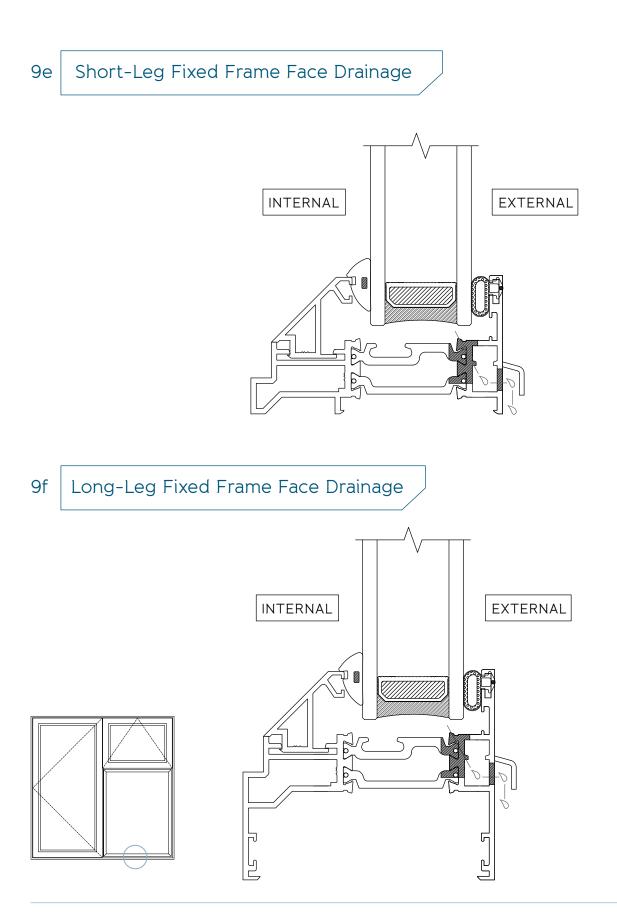


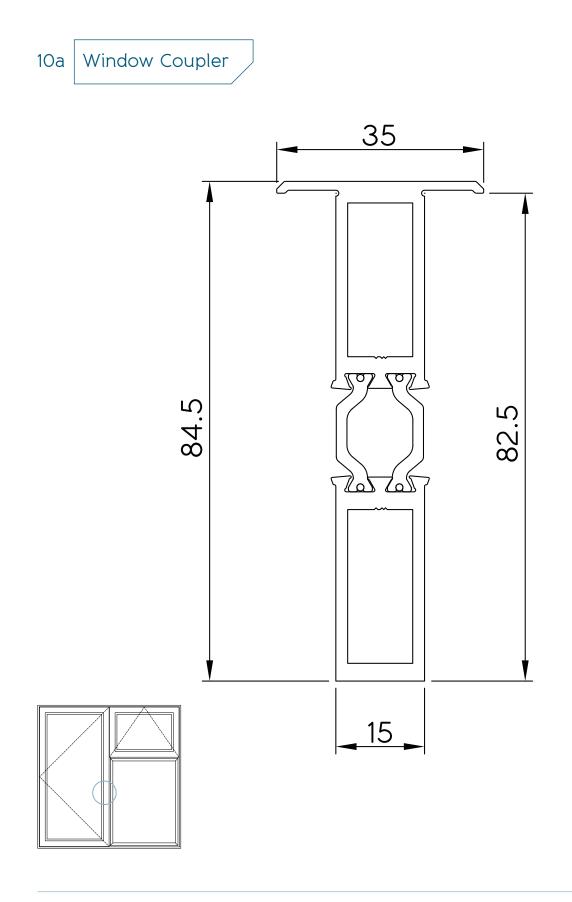
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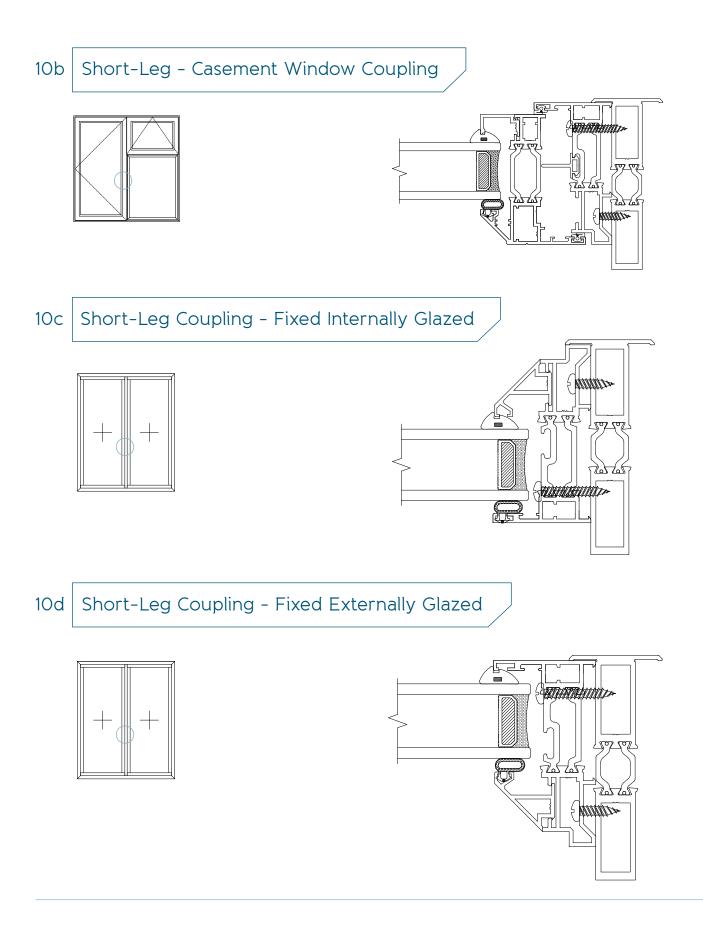


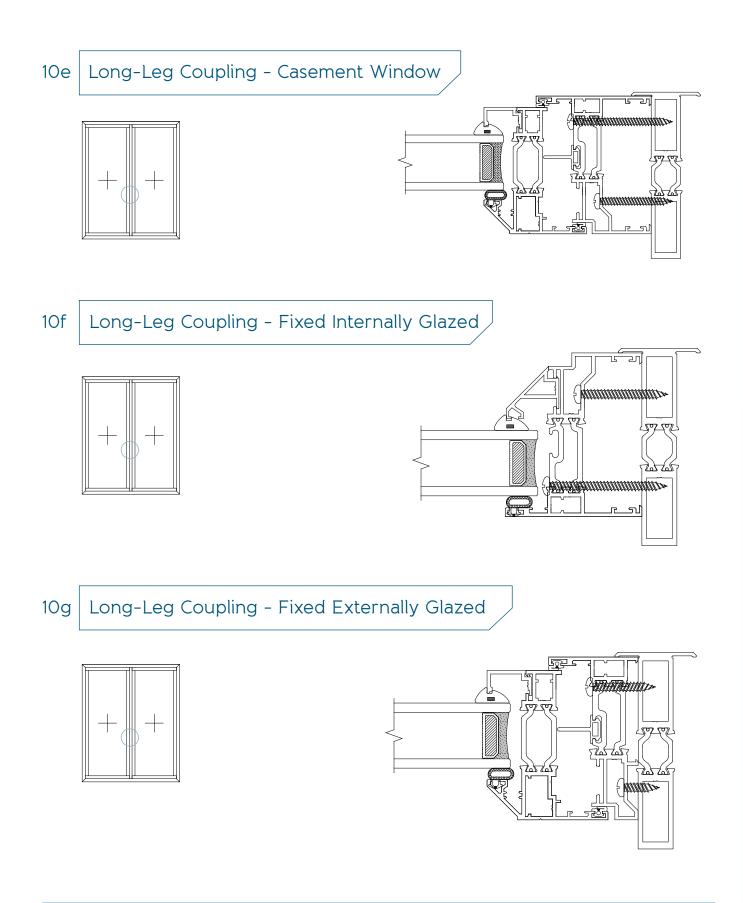




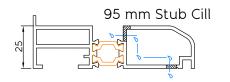


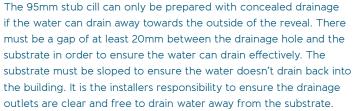
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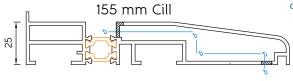


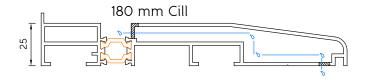


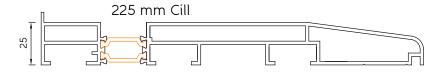












Beads

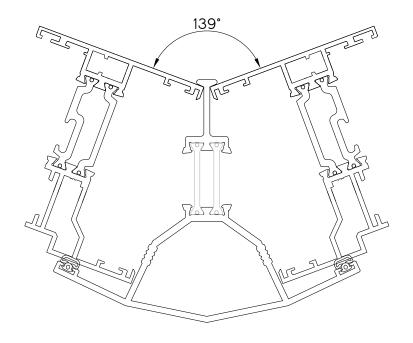
Frame Bead

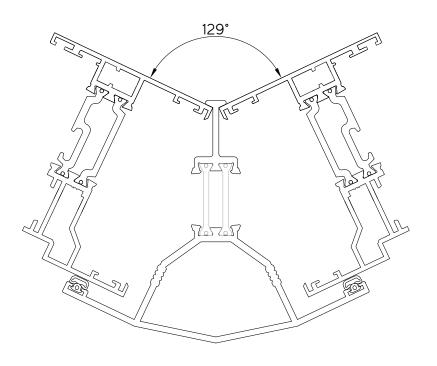
Sash Bead





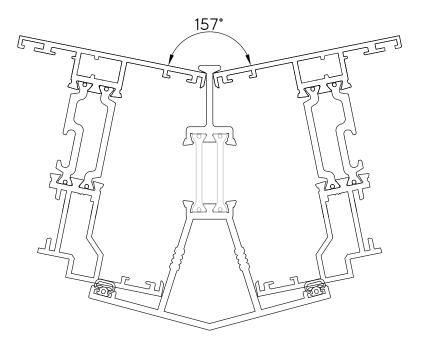
12a Variable Bay Mullion 129° - 139°

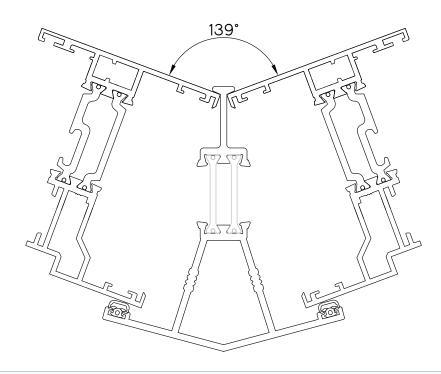


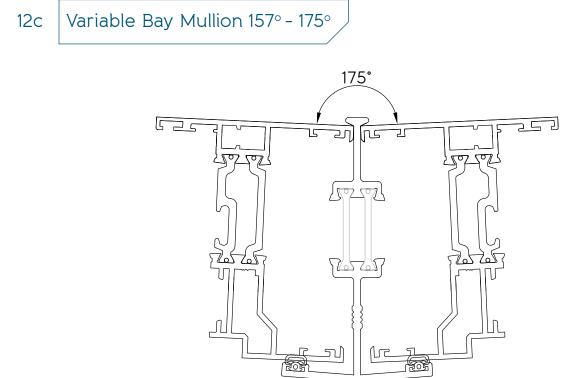


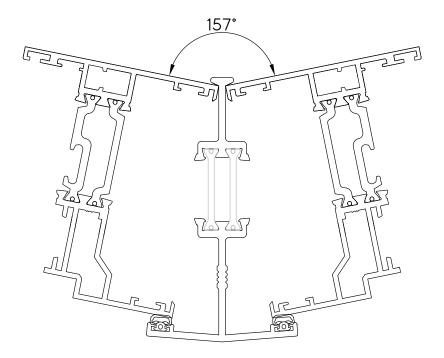
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12b Variable Bay Mullion 139° - 157°





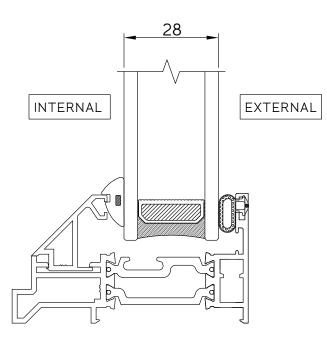




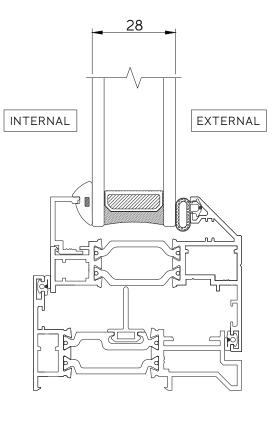
DV-VC

Short-Leg Glazing Options

Fixed frame



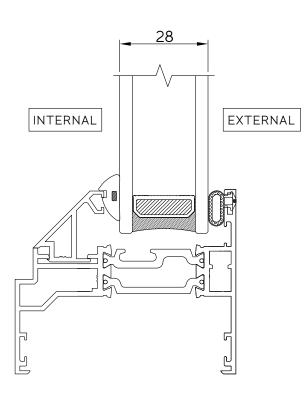
Frame and sash

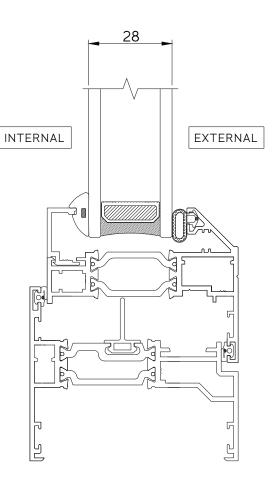


Long-Leg Glazing Options

Fixed frame

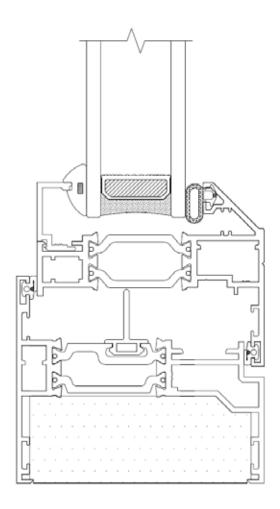
Frame and sash

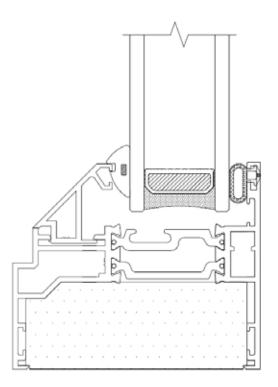


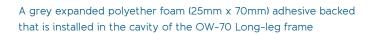


DV-7C

Long-Leg Frame Foam









Gaskets

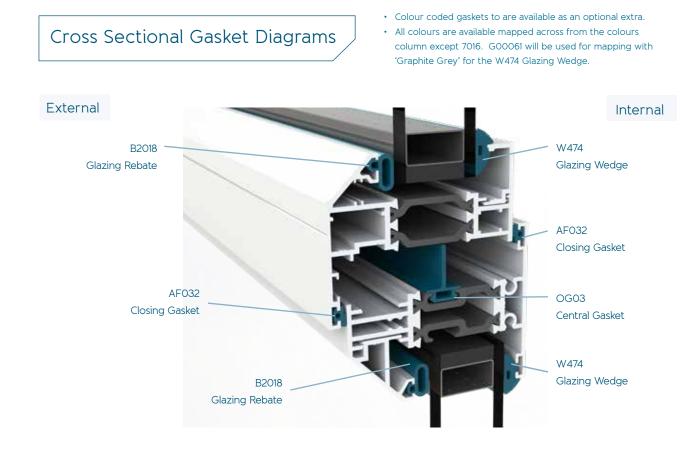


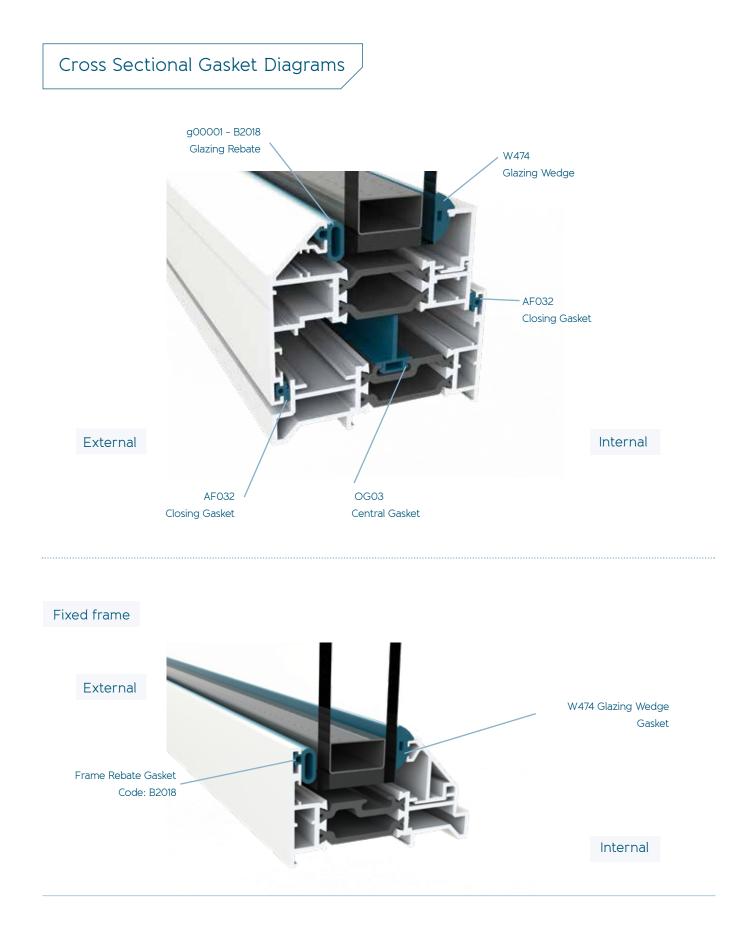
Colour	AF032 (Closing Gasket)	B2O18 (Glazing Rebate)	E3434 (Glazing Rebate)	W474 (Glazing Wedge)	OG03 (Central Gasket)
Black	G00114	G00001	G00004	G00040	G00113
White		G00002	G00005	G00041	
Graphite Grey		G00064	G00066		
Light Oak		G00065	G00067	G00076	
Light Grey		G00089	G00071	G00075	
Bronze		G00090	G00072	G00077	
Chestnut Brown		G00091	G00073	G00078	
7015		G00092	G00074	G00068	
7016				G00061	

• 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 Wedge..

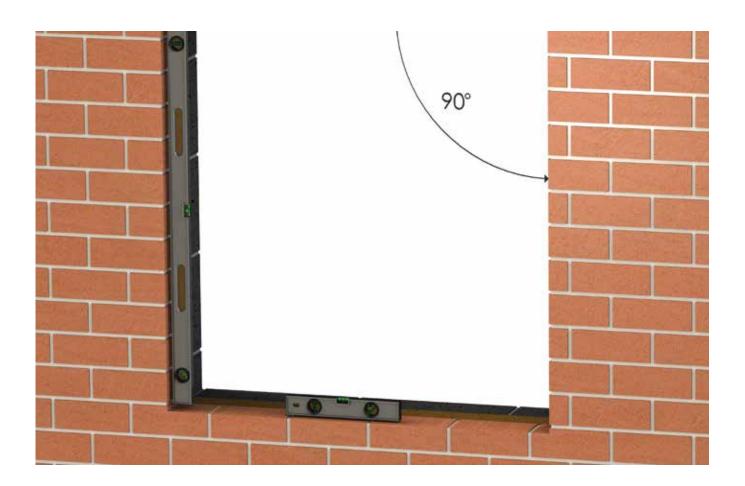






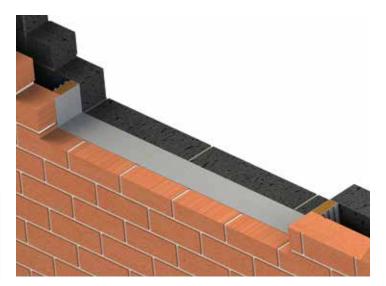
Installation Guide

Apertures

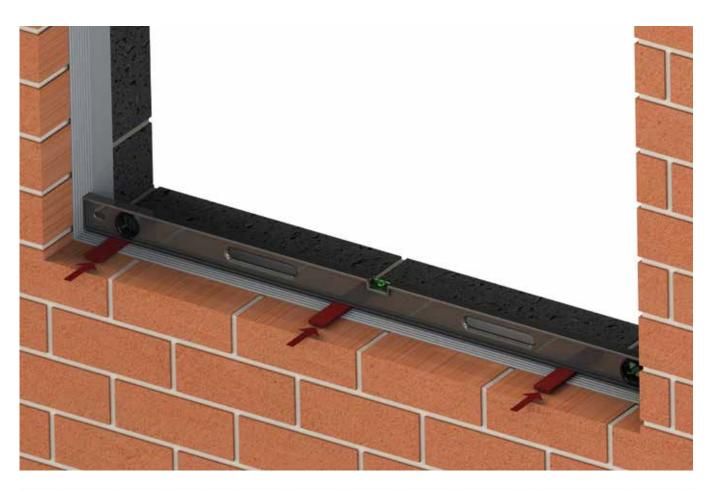


Open cavities discovered between the inner and outer skins of brick or block work should be bridged or closed with an insulation material in accordance with the local building authority.

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



1. Frame Fixing





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

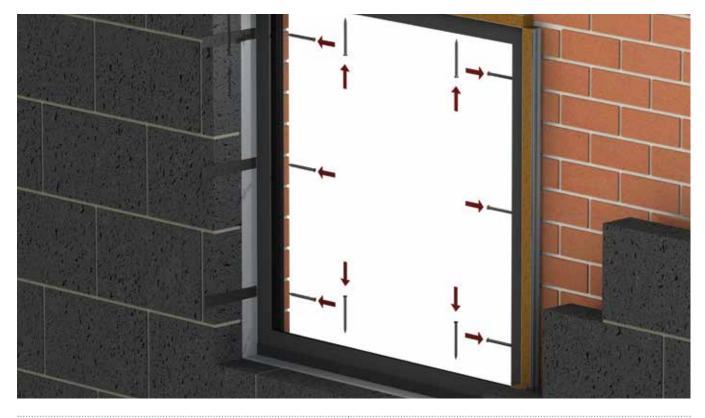
1.1. Place the correct frame packers spaced at a maximum of 500mm apart along the length of the opening to create a level, well supported platform for the track/ cill to sit. (Fig.1)

1. Frame Fixing (continued)



l FIG 2

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





If using fixing straps, please skip to 1.7.

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

Please move to 2.1.

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

07-VC

2. Glazing





- 2.1. All insulated glass units should be examined for damages and defects before installation. (Fig.4)
- 2.2. Close the window and fully engage the lock. (Fig.4)
- 2.3. Remove the 4 glazing beads. (Fig.4)
- 2.4. Place the required packers in the bottom of the glazing chamber spaced approximately 50mm in from each corner at 90° to the window. (Fig.4)
 - 2.5. Install the glass on the packers, taking care not to pinch the gasket on the outside. (Fig.4)
- 2.6. For safety, always ensure the top bead is installed first, followed by the bottom and then the side beads. (Fig.5)
- 2.7. Cut the glazing wedge gasket to length and insert between the glass unit and the glazing bead. (Fig.5)





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

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.

We'll run through some of these now.

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.

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 processess.

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...

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 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.

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.





Contact

t 08448 802 371 or 01494 416 895				
Marketing				
t 08448 802 374 or 01494 416 897				
Sales Operations				
t 0808 168 5816 or 01494 686 868				
	e OrdersSouth@origin-global.com			
Solutions				
t 08448 802 373 or 01494 416 896	e Solutions@origin-global.com			
Fleet and Logistics				
t 08448 802 378 or 01494 416 898	e Logistics@origin-global.com			



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

- t 0808 168 5816
- e enquiry@origin-global.com
- $w \ {\tt www.origin-global.com}$

Origin Northern Centre of Excellence, Taurus Park, Europa Boulevard, Westbrook, Warrington, Cheshire, WA5 7ZT

- t 01925 907 907
- e enquiry@origin-global.com
- **w** www.origin-global.com