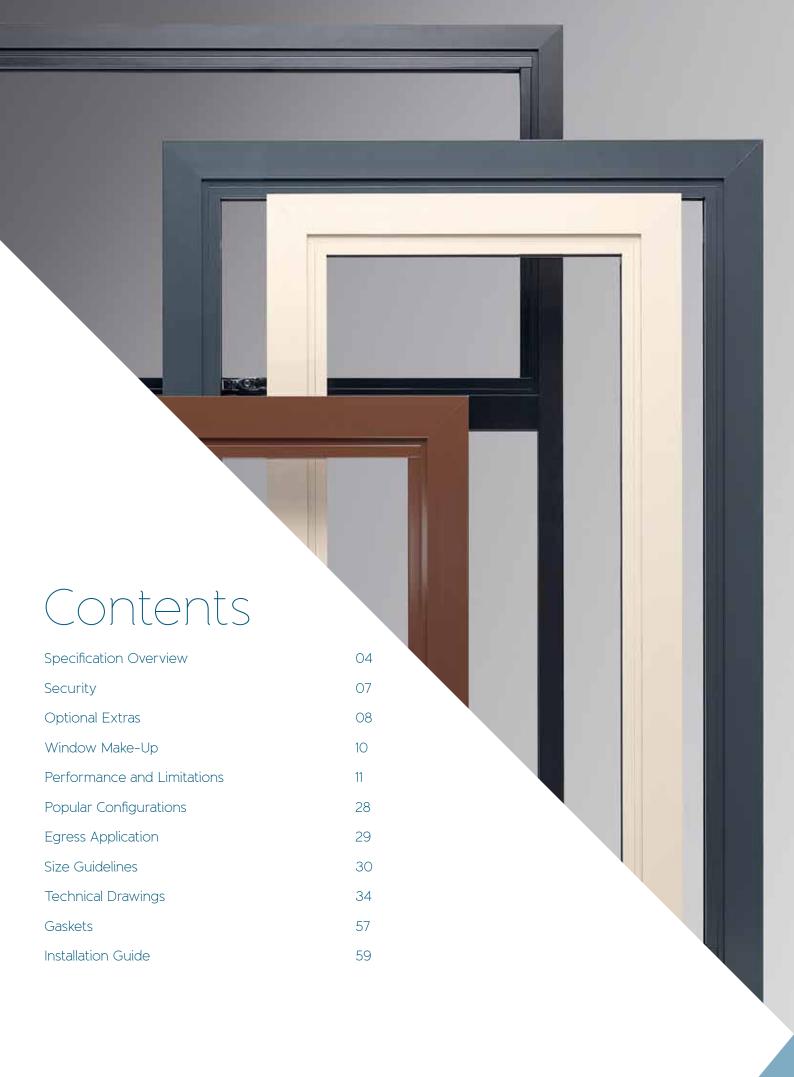


# origin

OW-70 Window Specification File

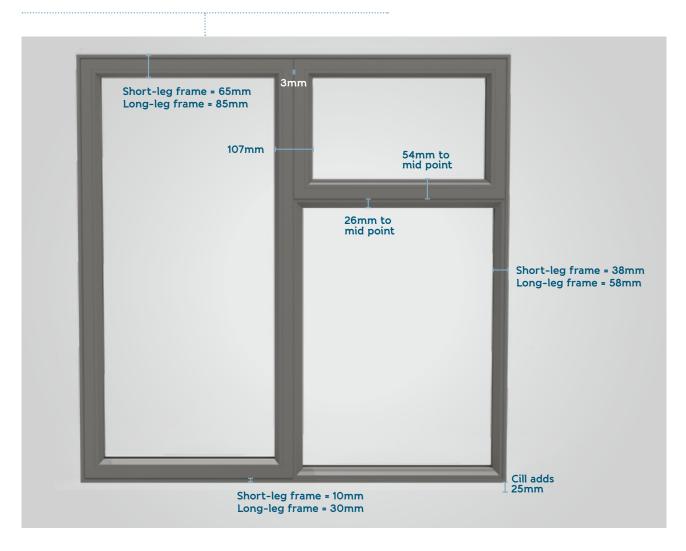




# Specification Overview

Thermally Broken Aluminium Window

### External view of the OW-70





## Profile Specification

Short-leg Frame Long-leg Frame

Frame and Sash Sightline 65mm 85mm

OW-70 Outer Frame Depth:	70mm
OW-70 Sash Depth:	64mm
OW-70 Mullion and Sash Sightline:	80mm

### Features

- Up to a 20-year guarantee\*
- External flush casement
- Mechanically double crimped corners
- Nemesis espag locking mechanism

# Options and extras

- Casement, bay and fixed configurations available
- Colour-coded handles including metallic finishes
- Accommodates double and triple glazing, with a 28mm unit
- Open-out, fixed or dummy sash
- 95, 150, 180 and 225mm cill options
- Available in over 150 different RAL colours
- 35mm frame extender
- Restrictor hooks
- Egress hardware
- 2500EA trickle vents available
- Window-to-window coupling option available
- Marine grade hinges

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

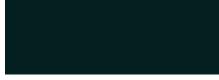


<sup>\*</sup>Guarantee based on location of where the windows will be installed.

# 2 of our popular colours are available on a 1-week lead time.







Anthracite Grey (7016M)

Outside of this, any RAL colour can be selected. These are on a 3-week lead time.

For the full range, visit origin-global.com



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 woodgrains are available on our 24-hour delivery promise, 'Your Lead Time, Not Ours' within the OW-80 range.

<sup>\*</sup>Bay windows are only available on the Long-leg frame

# Security

The OW-70 has been designed with security in mind. Being PAS 24 certified, 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.





## Optional Extras

## Restrictor Hooks

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



### Handles

The inline window handle is available in chrome or satin or you can opt for a metallic finish or colour-coded offset handle.

#### Inline handle range



Chrome Available in a Graphite/Brushed, Chrome, Satin, Silver, Gold or 7016M finish.

#### Offset colour-matched handle range

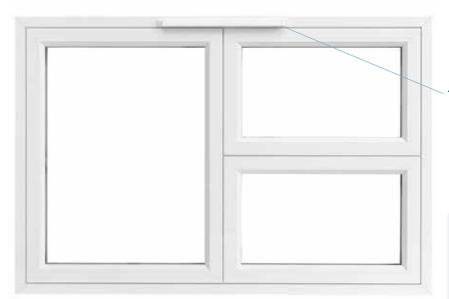
For an integrated or contrasting look to your windows, the offset handle is available in any RAL colour.



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

### Trickle vents

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



Trickle vents

# 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.



<sup>\*</sup>minimum sash width applies.

# Window Make-Up



# 07-70

## Performance and Limitations

## Thermal Ratings

Short-leg frame:

Long-leg frame:

u-Value

up to 1.2W/m2.K\*

1.2W/m2.K\*

(See from page 13 for short-leg)

(See from page 18 for long-leg)

## Weather Rating

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

## Performance Testing

PAS 24 Certified (Document Q Compliant)

## Size and Weight Limitations

	Width	Height	Weight	
	Maximum			
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<sup>2</sup>K

Replacements

1.6W/m<sup>2</sup>K

**Energy Rating** 

B or better

All windows must conform to these requirements.



<sup>\*</sup>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.

 $<sup>^{\</sup>star\star}$  Max sizes refer to the maximum overall frame and sash size for an individual window.

<sup>\*\*\*</sup>Max weight refers to the maximum glazed sash weight.

<sup>\*\*\*\*</sup>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

SIM - SOFTWARE:

WIN ISO 2D PRO

GLASS CENTRE PANE U-VALUE:

0.6W/m<sup>2</sup>K

INSULATION:

NONE

PROFILE SPEC:

FRAME: P954, SASH: P955

READ.

28mm

**GLASS SPEC:** 

4mm CLEAR - 8mm 90% - 4mm PLANITHERM 4SII - 8mm 90% KRYPTON - 4mm

PLANITHERM 4SII

SPACER BAR:

SWISSPACER ULTIMATE

#### THERMAL TRANSMITTANCE:

#### 1.2W/m<sup>2</sup>K

TESTED BY: David Ginger (Product Compliance Director)

DATE: 10/07/2018

SIGNED: 50.69

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

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OFDL\_18.70.2





# Certificate of thermal simulation

PRODUCT:

OW-70 - SHORT-LEG FRAME

SIM - SOFTWARE:

WIN ISO 2D PRO

GLASS CENTRE PANE U-VALUE:

0.7W/m<sup>2</sup>K

INSULATION:

NONE

PROFILE SPEC:

FRAME: P954, SASH: P955

READ.

28mm

GLASS SPEC:

4mm CLEAR - 6mm AIR - 4mm PLANITHERM 4SII - 10mm 90% KRYPTON - 4mm PLANITHERM 4SII

SPACER BAR:

SWISSPACER ULTIMATE

#### THERMAL TRANSMITTANCE:

#### 1.3W/m<sup>2</sup>K

TESTED BY: David Ginger (Product Compliance Director)

DATE: 10/07/2018

SIGNED: 50.53

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

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OFDL\_18.92.1



# Certificate of thermal simulation

PRODUCT:

OW-70 - SHORT-LEG

SIM - SOFTWARE:

WIN ISO 2D PRO

GLASS CENTRE PANE U-VALUE:

0.9W/m<sup>2</sup>K

INSULATION:

NONE

PROFILE SPEC:

FRAME: P954, SASH: P955

READ.

28mm

**GLASS SPEC:** 

4mm CLEAR - 8mm 90% Argon - 4mm Planitherm 4SII - 8mm 90% Argon - 4mm Planitherm 4SII

SPACER BAR:

SWISSPACER ULTIMATE

#### THERMAL TRANSMITTANCE:

1.4W/m<sup>2</sup>K

TESTED BY: David Ginger (Product Compliance Director)

DATE: 10/07/2018

SIGNED: ダチ

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

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OFDL\_18.72.2





# Certificate of thermal simulation

PRODUCT:

OW-70: SHORT-LEG FRAME

SIM - SOFTWARE:

WIN ISO 2D PRO

**GLASS CENTRE** PANE U-VALUE:

1.0W/m<sup>2</sup>K

INSULATION:

NONE

PROFILE SPEC:

FRAME: P954, SASH: P955

BEAD:

28mm

**GLASS SPEC:** 

4mm CLEAR - 20mm 90% ARGON - 4mm PLANITHERM 4SII

SPACER BAR:

SWISSPACER ULTIMATE

#### THERMAL TRANSMITTANCE:

1.5W/m<sup>2</sup>K

TESTED BY:

David Ginger (Product Compliance Director)

DATE:

SIGNED:

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

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

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OFDL\_18.59.2



# Certificate of thermal simulation

PRODUCT:

OW-70: SHORT-LEG FRAME

SIM - SOFTWARE:

WIN ISO 2D PRO

GLASS CENTRE PANE U-VALUE:

1.2W/m<sup>2</sup>K

INSULATION:

NONE

PROFILE SPEC:

FRAME: P954, SASH: P955

READ

28mm

**GLASS SPEC:** 

4mm CLEAR - 20mm 90% ARGON - 4mm PLANITHERM TOTAL+

SPACER BAR:

SWISSPACER ULTIMATE

#### THERMAL TRANSMITTANCE:

#### 1.6W/m<sup>2</sup>K

TESTED BY: David Ginger (Product Compliance Director)

**DATE**: 10/07/2018

SIGNED: 🔛 🖓

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

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

OFDL\_18.61.2





# Certificate of thermal simulation

PRODUCT:

OW-70 - LONG-LEG

SIM - SOFTWARE:

WIN ISO 2D PRO

GLASS CENTRE PANE U-VALUE:

0.6W/m<sup>2</sup>K

INSULATION:

**STANDARD** 

PROFILE SPEC:

FRAME: P958, SASH: P955

28mm

GLASS SPEC:

4mm CLEAR - 8mm 90% - 4mm PLANITHERM 4SII - 8mm 90% KRYPTON -

4mm PLANITHERM 4SII

SPACER BAR:

SWISSPACER ULTIMATE

#### THERMAL TRANSMITTANCE:

#### $1.2W/m^2K$

**TESTED BY:** 

David Ginger (Product Compliance Director)

DATE:

10/07/2018

SIGNED:

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

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OFDL\_18.91.1



# Certificate of thermal simulation

PRODUCT:

OW-70 - LONG-LEG FRAME

SIM - SOFTWARE:

WIN ISO 2D PRO

GLASS CENTRE PANE U-VALUE:

0.7W/m<sup>2</sup>K

INSULATION:

STANDARD

PROFILE SPEC:

FRAME: P958, SASH: P955

BEAD:

28mm

**GLASS SPEC:** 

4mm CLEAR - 6mm AIR - 4mm PLANITHERM 4SII - 10mm 90% KRYPTON - 4mm PLANITHERM 4SII

SPACER BAR:

SWISSPACER ULTIMATE

#### THERMAL TRANSMITTANCE:

1.3W/m<sup>2</sup>K

TESTED BY: David Ginger (Product Compliance Director)

**DATE:** 10/07/2018

SIGNED: 50.539

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

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OFDL\_18.92.1





Certificate of thermal simulation

OW-70 - LONG-LEG FRAME

SIM - SOFTWARE:

WIN ISO 2D PRO

GLASS CENTRE PANE U-VALUE:

0.9W/m<sup>2</sup>K

INSULATION:

PRODUCT:

STANDARD

PROFILE SPEC:

FRAME: P958, SASH: P955

BEAD:

28mm

GLASS SPEC:

4mm CLEAR - 8mm 90% Argon - 4mm PLANITHERM 4SII - 8mm 90% Argon - 4mm PLANITHERM 4SII

SPACER BAR:

SWISSPACER ULTIMATE

THERMAL TRANSMITTANCE:

 $1.4 W/m^2 K$ 

**TESTED BY:** 

David Ginger (Product Compliance Director)

DATE:

SIGNED:



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

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OFDL\_18.93.1



# Certificate of thermal simulation

PRODUCT:

OW-70: LONG-LEG FRAME

SIM - SOFTWARE:

WIN ISO 2D PRO

GLASS CENTRE PANE U-VALUE:

1.0W/m<sup>2</sup>K

INSULATION:

STANDARD

PROFILE SPEC:

FRAME: P958, SASH: P955

BEAD:

28mm

**GLASS SPEC:** 

4mm CLEAR - 20mm 90% ARGON - 4mm PLANITHERM 4SII

SPACER BAR: SWISSPACER ULTIMATE

#### THERMAL TRANSMITTANCE:

#### 1.5W/m<sup>2</sup>K

TESTED BY: David Ginger (Product Compliance Director)

DATE: 10/07/201

SIGNED: 50.6

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

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

OFDL\_18.74.2





Windows Certificate of thermal simulation PRODUCT: OW-70: LONG-LEG FRAME SIM - SOFTWARE: WIN ISO 2D PRO GLASS CENTRE 1.0W/m<sup>2</sup>K PANE U-VALUE: INSULATION: NONE PROFILE SPEC: FRAME:P958, SASH:P955 28mm **GLASS SPEC:** 4mm CLEAR - 20mm 90% ARGON - 4mm PLANITHERM 4SII SPACER BAR: SWISSPACER ULTIMATE THERMAL TRANSMITTANCE: 1.6W/m<sup>2</sup>K TESTED BY: David Ginger (Product Compliance Director) DATE: 10/07/2018 SIGNED: All simulations strictly in accordance with the requirements of ISO 10077-2:2015 Email: enquiry@origin-global.com Web: www.origin-global.com Origin Global HQ, Stuart House, Castle Estate, Coronation Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3TA OFDL\_18.85.1

# Certificate of thermal simulation

PRODUCT:

OW-70: LONG-LEG FRAME

SIM - SOFTWARE:

WIN ISO 2D PRO

GLASS CENTRE PANE U-VALUE:

1.2W/m<sup>2</sup>K

INSULATION:

**STANDARD** 

PROFILE SPEC:

FRAME:P958, SASH:P955

READ.

28mm

**GLASS SPEC:** 

4mm CLEAR - 20mm 90% ARGON - 4mm PLANITHERM TOTAL+

SPACER BAR:

SWISSPACER ULTIMATE

#### THERMAL TRANSMITTANCE:

#### 1.6W/m<sup>2</sup>K

TESTED BY: David Ginger (Product Compliance Director)

DATE: 10/07/2018

SIGNED: "

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

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

OFDL\_18.60.2





## Certificate of thermal simulation

PRODUCT:

OW-70: LONG-LEG FRAME

SIM - SOFTWARE:

WIN ISO 2D PRO

**GLASS CENTRE** PANE U-VALUE:

1.2W/m<sup>2</sup>K

INSULATION:

NONE

PROFILE SPEC:

FRAME:P958, SASH:P955

28<sub>mm</sub>

GLASS SPEC:

4mm CLEAR - 20mm 90% ARGON - 4mm PLANITHERM TOTAL+

SPACER BAR:

SWISSPACER ULTIMATE

#### THERMAL TRANSMITTANCE:

1.7W/m<sup>2</sup>K

TESTED BY:

David Ginger (Product Compliance Director)

DATE:

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\_18.86.1



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: NONE

SOLAR FACTOR (G WINDOW)

0.52

AIR PERMIABILITY (@ 50PA)

0.00W/m<sup>2</sup>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<sup>2</sup>K

#### **ENERGY RATING:**

A +3

TESTED BY: David Ginger (Product Compliance Director)

DATE: 10/07/2018

SIGNED: D. Jango

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

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

OFDL\_18.87.1







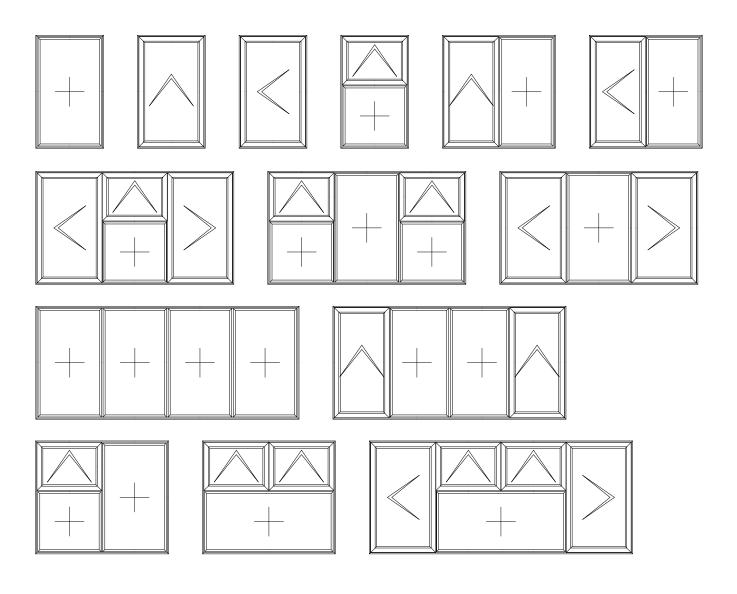
Windows Certificate of thermal simulation PRODUCT: OW-70: LONG-LEG FRAME SIM - SOFTWARE: WIN ISO 2D PRO **GLASS CENTRE**  $1.2W/m^2K$ PANE U-VALUE: INSULATION: NONE SOLAR FACTOR 0.49 (G WINDOW) AIR PERMIABILITY 0.00W/m<sup>2</sup>K (@ 50PA) PROFILE SPEC: FRAME:P958, SASH:P955 BEAD: GLASS SPEC: 4mm DIAMANT - 20mm 90% - 4mm PLANITHERM TOTAL+ SPACER BAR: ARGON SWISSPACER ULTIMATE THERMAL 1.7W/m<sup>2</sup>K TRANSMITTANCE: **ENERGY RATING:** C -11 TESTED BY: David Ginger (Product Compliance Director) DATE: SIGNED: All simulations strictly in accordance with the requirements of ISO 10077-2:2015 Email: enquiry@origin-global.com Web: www.origin-global.com

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

OFDL\_18.88.1



# Popular Configurations



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

<sup>\*</sup>Popular configurations available to specify 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.

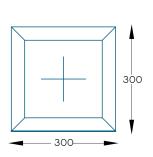
**Note 2.** Locks (with or without removable keys) and stays may be fitted to egress windows, subject to the stay being fitted with a release catch, which may be child resistant.

**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.

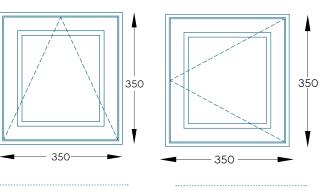


## Size Guidelines

#### Minimum frame dimensions



350



Fixed frame

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

Dummy sash

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

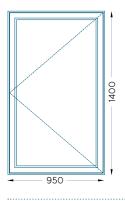
Top hung

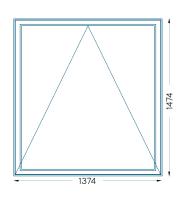
Min height = 350mm\*
Min width = 355mm\*\*

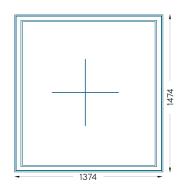
Side hung

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

#### Maximum frame dimensions







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

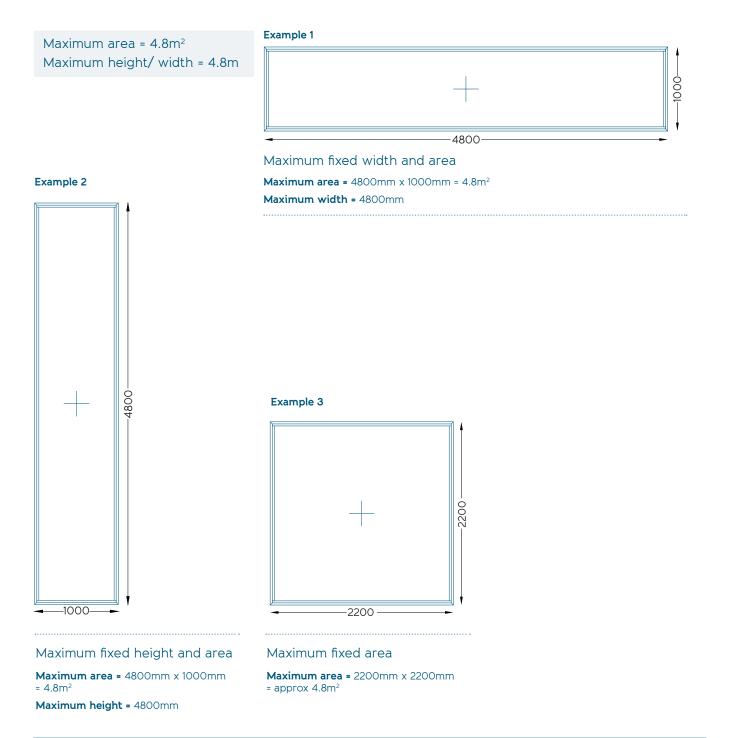
Max height = 1474mm Max width = 1374mm Maximum glazed sash weight = 50kg\*\*\*

<sup>\*</sup>Minimum height will be greater with a cill.

<sup>\*\*</sup>Minimum width will be greater with a frame extension.

<sup>\*\*\*</sup>Max weight refers to the maximum glazed sash weight.

#### Fixed frame maximum dimensions





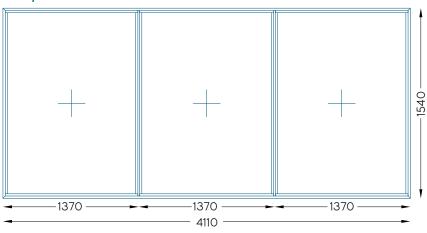


### Maximum mullion/transom length

Maximum glazed area next to mullion/transom:

= 2.055m<sup>2</sup> Maximum height: = 1540mm

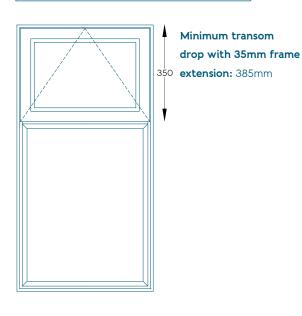
#### Example 1

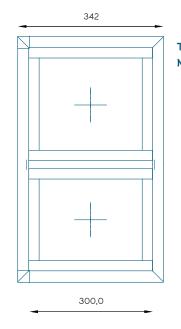


Maximum mullion length and glazed area next to a mullion/transom

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

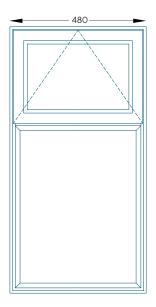
#### Minimum transom drop





Transom/Mullion
Min transom length: 300mm

## Minimum frame width with trickle vent

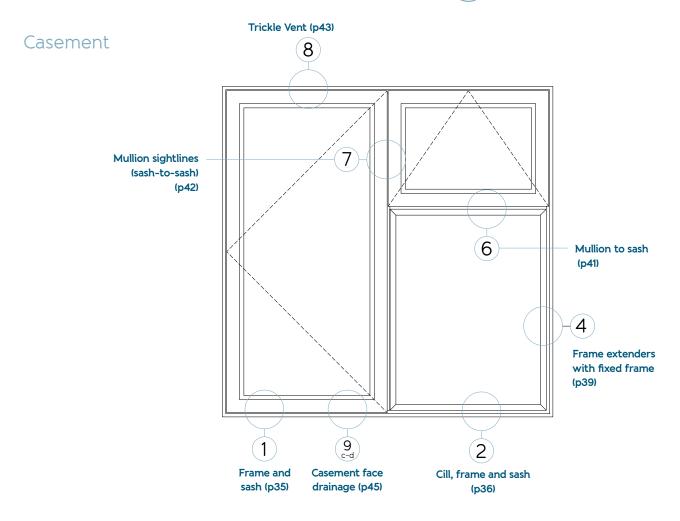


The minimum width for a 2500EA trickle vent to go through a 35mm add-on is 400mm.\*

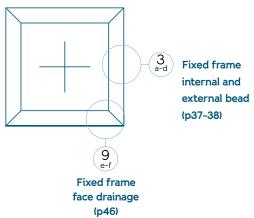


<sup>\*</sup>Minimum airflow requirements to be adhered to as per building regulations.

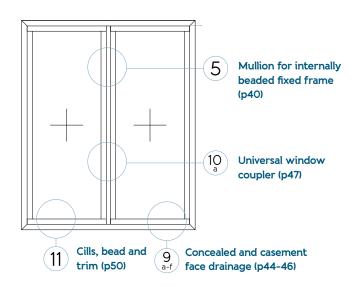
# Technical Drawings



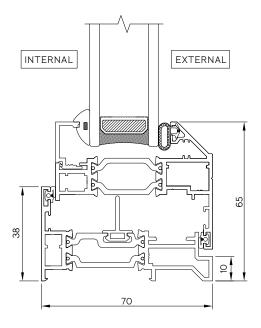




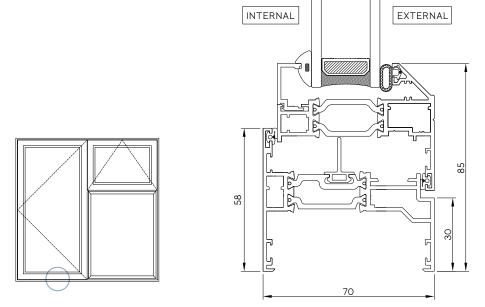
#### Mulllion sightlines for fixed frames



### 1a Short-leg frame and sash

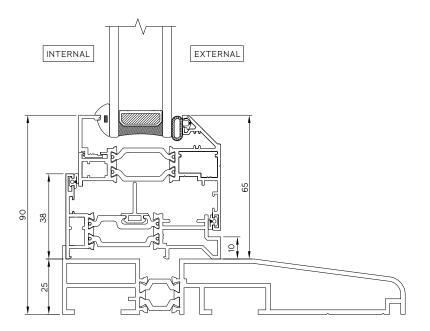


### 1b Long-leg frame and sash

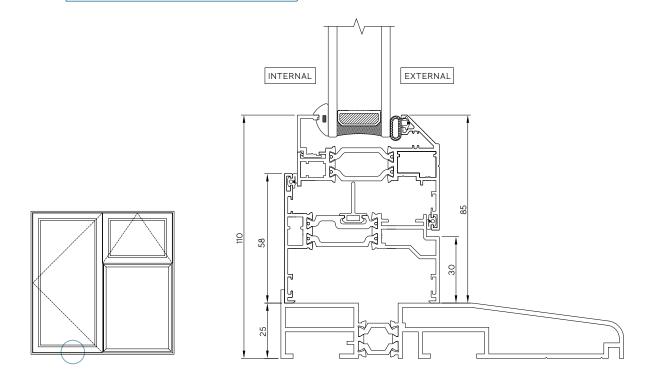




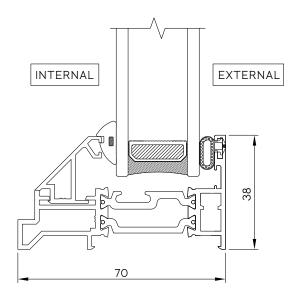
### 2a Cill short-leg frame and sash



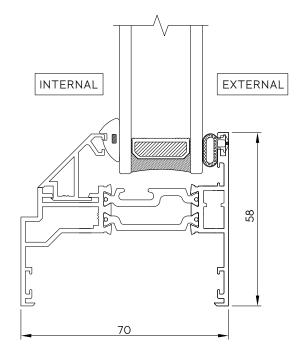
### 2b Long-leg frame and sash

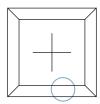


#### 3a Fixed short-leg frame - internal bead



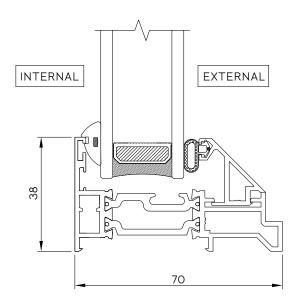
## 3b Fixed long-leg frame - internal bead



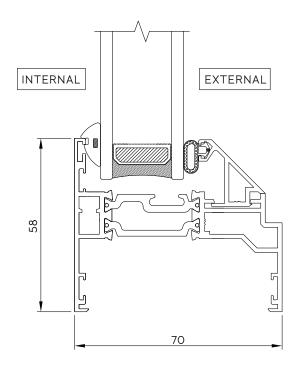


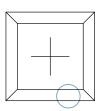


#### 3c Fixed short-leg frame - external bead

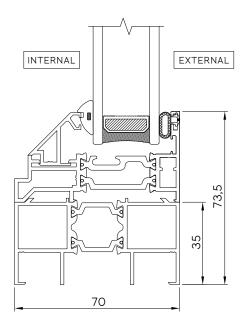


### 3d Fixed long-leg frame - external bead



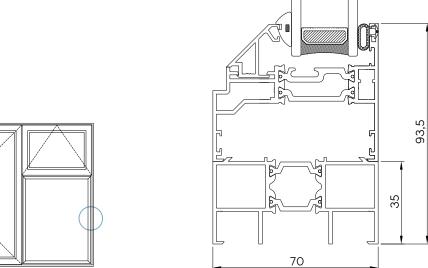


#### 35mm frame extender with short-leg frame 4a

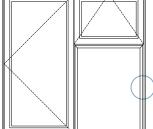


EXTERNAL

#### 35mm frame extender with long-leg frame 4b

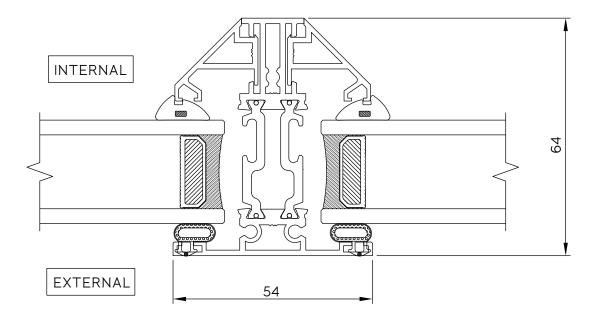


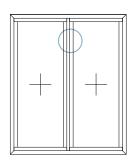
INTERNAL

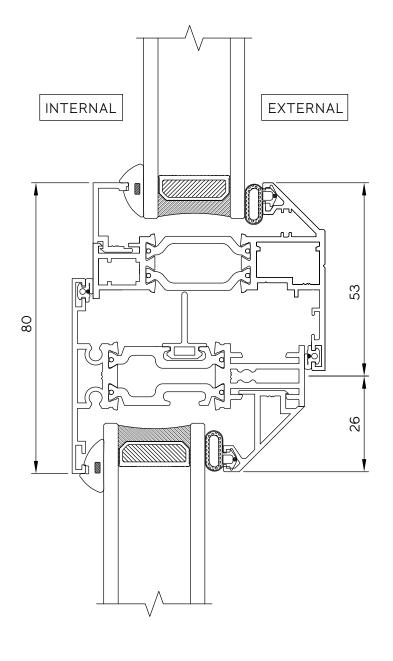


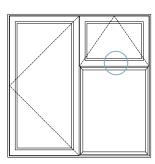


### 5 Mullion sightlines for internally beaded fixed frames



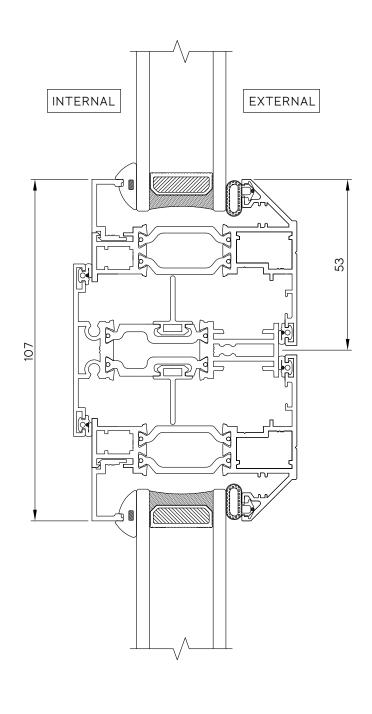


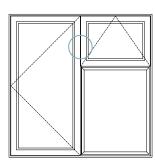




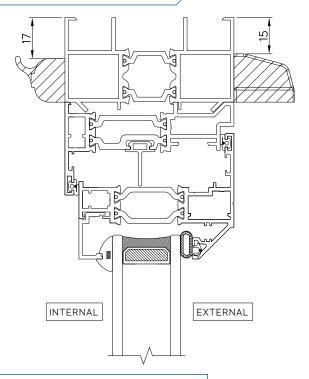


#### 7 Mullion and double sash

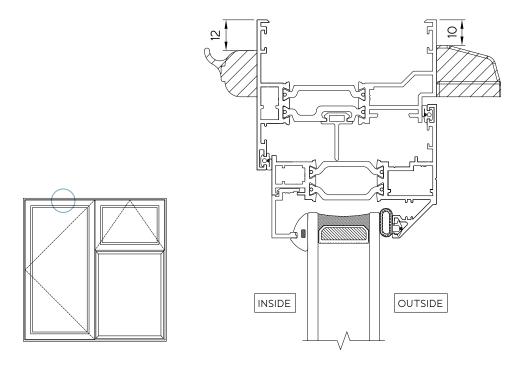




#### 8a Trickle vent through 35mm add-on

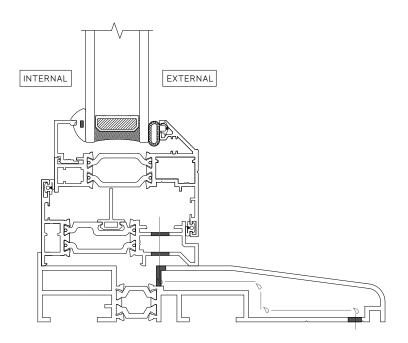


# 8b Trickle vent through long-leg frame

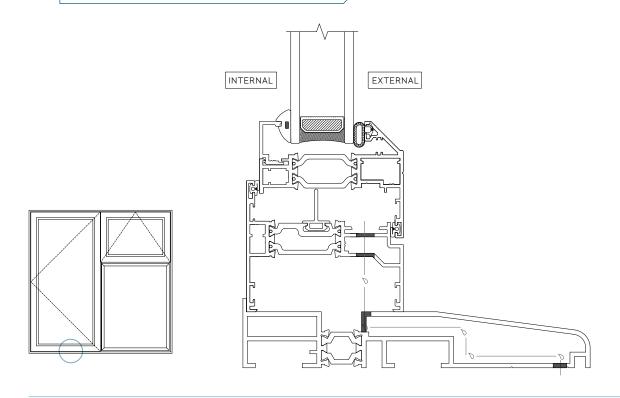




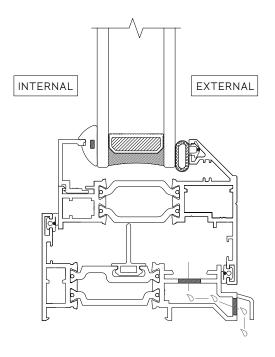
### 9a Short-leg concealed drainage



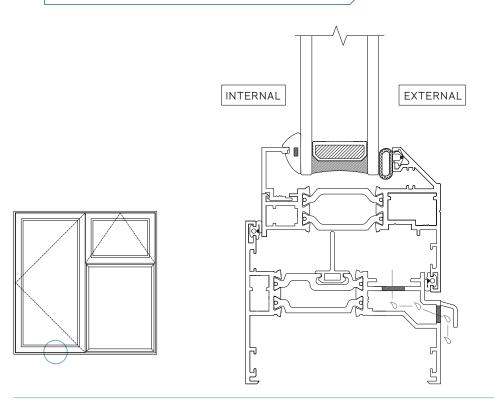
## 9b Long-leg concealed drainage



### 9c | Short-leg casement face drainage

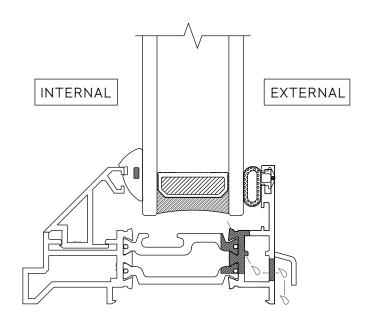


### 9d Long-leg casement face drainage

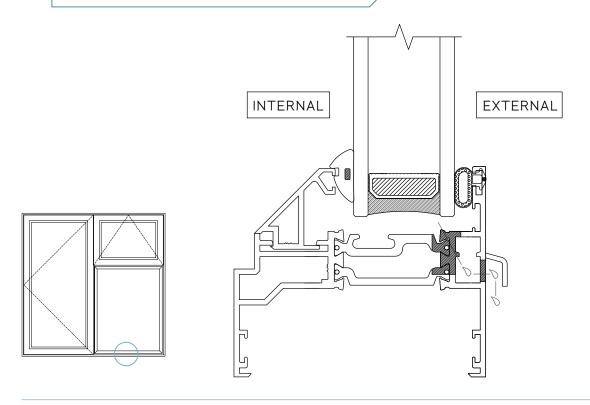




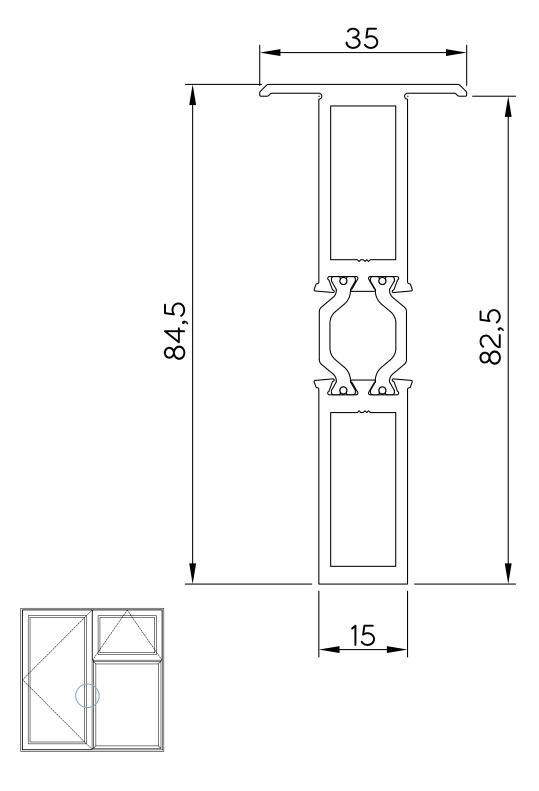
### 9e Short-leg fixed frame face drainage



### 9f Long-leg fixed frame face drainage



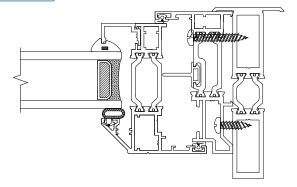
## 10a Window coupler



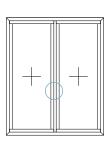


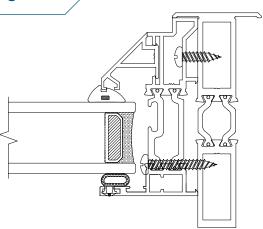
#### 10b | Short-leg - casement window coupling



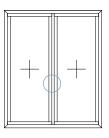


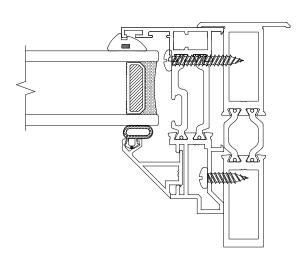
#### 10c | Short-leg coupling - fixed internally glazed



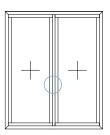


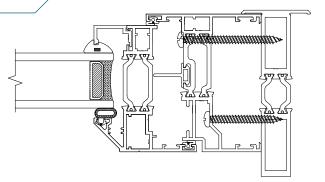
## 10d | Short-leg coupling - fixed externally glazed



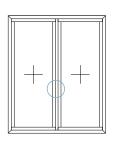


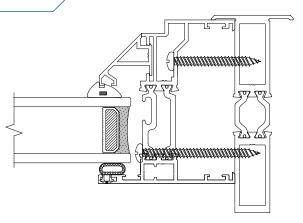
#### 10e Long-leg coupling - casement window



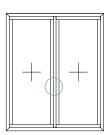


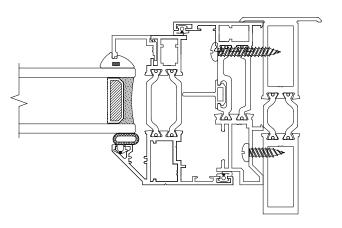
#### 10f | Long-leg coupling - fixed internally glazed





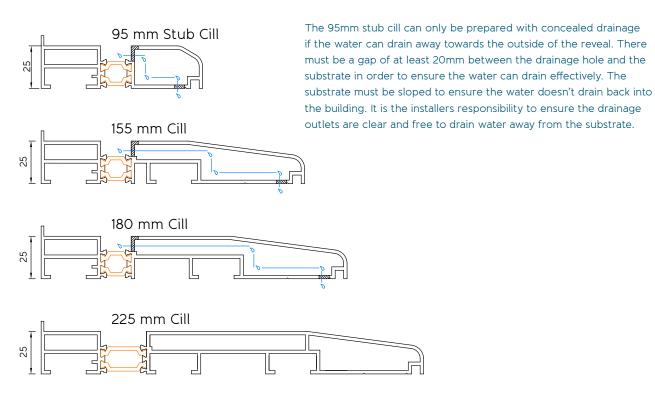
### 10g Long-leg coupling - fixed externally glazed







# 11 Cills, bead and trim

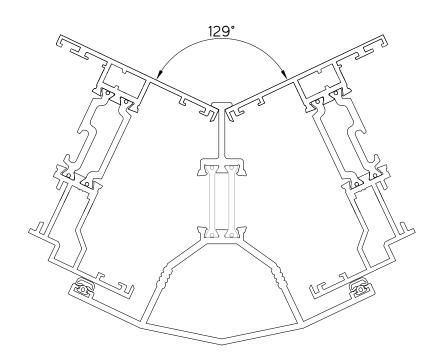


#### Beads

Frame Bead

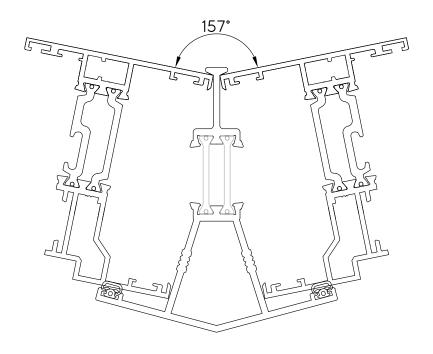
Sash Bead

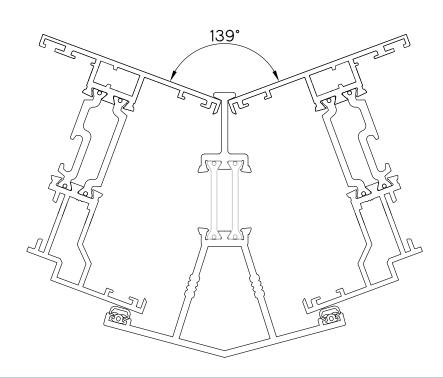




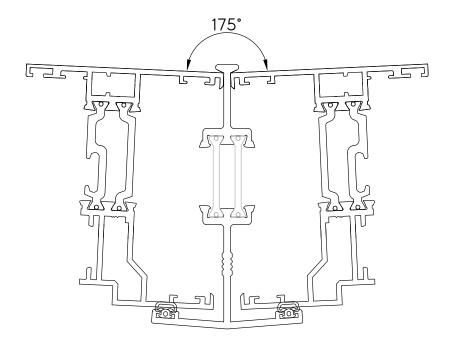


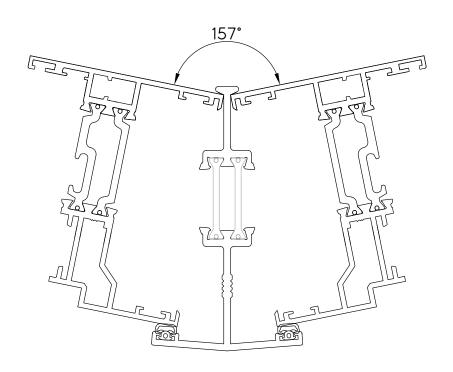
### 12b Variable bay mullion 139° - 157°





### 12c Variable bay mullion 157° - 175°

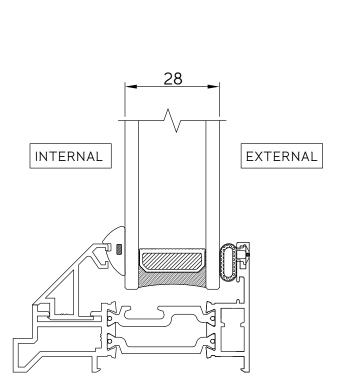




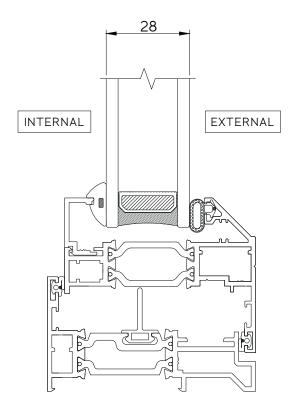


### Short-leg glazing options

#### Fixed frame

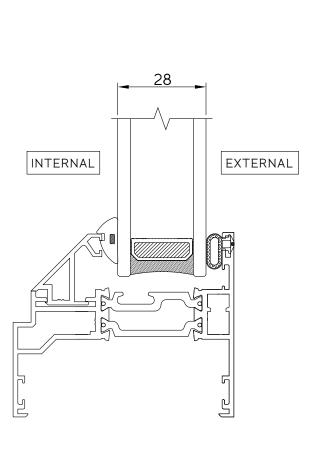


#### Frame and sash

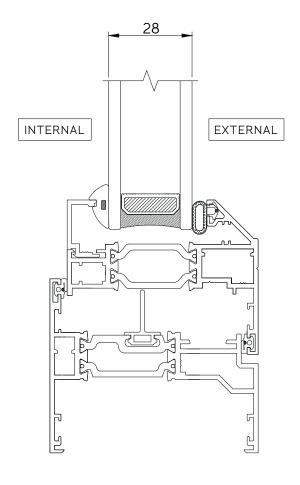


### Long-leg glazing options

#### Fixed frame

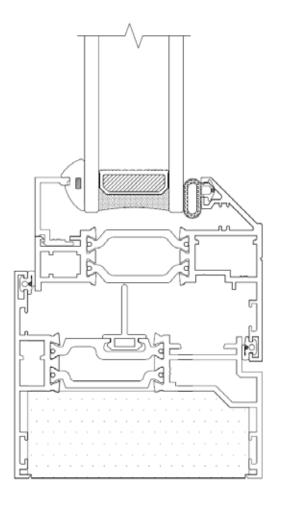


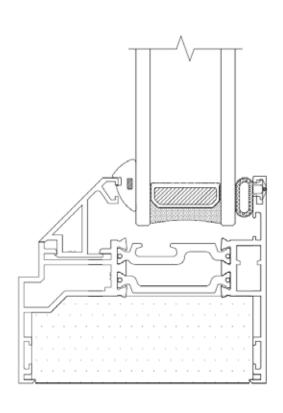
#### Frame and sash





#### Long-leg frame foam





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



# Gaskets

G00114 - AF032

G00001 - B2018

G00113 - OG03

G00040 - W474

Closing Gasket

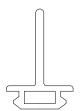
Glazing Rebate

Central Gasket

Glazing Wedge

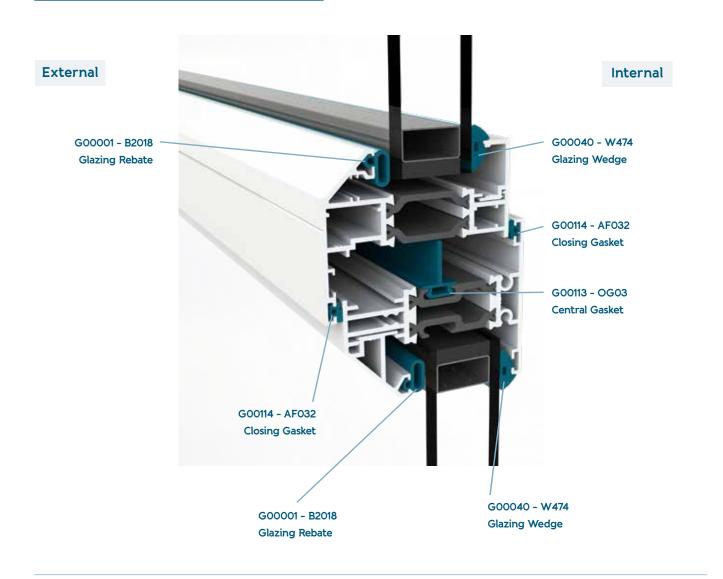






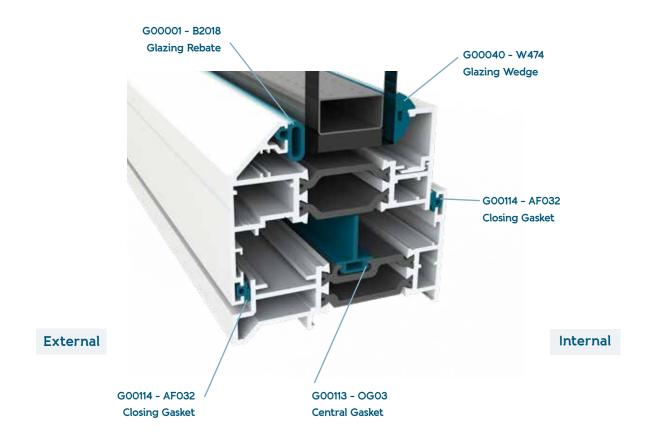


#### Cross sectional gasket diagrams

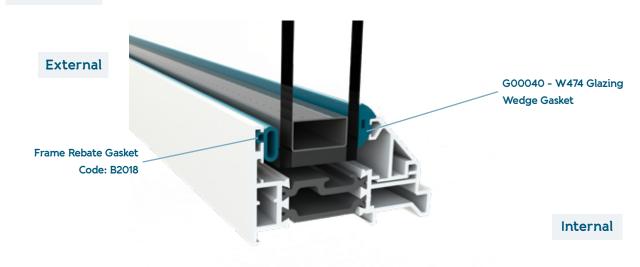




#### Cross sectional gasket diagrams

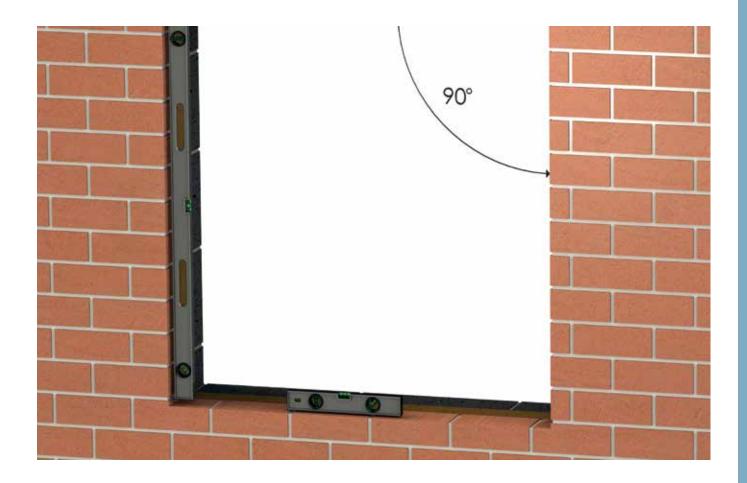


#### Fixed frame



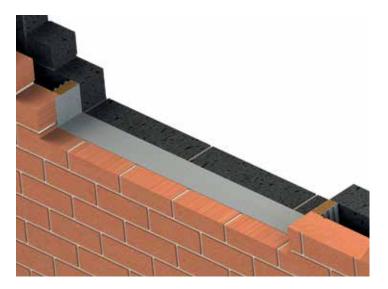
# Installation Guide

#### Apertures



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

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





# 1. Frame Fixing



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

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

#### 1. Frame Fixing (continued)



FIG 2

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





FIG 3

If using fixing straps, please skip to 1.7.

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

#### Please move to 2.1.

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

# 2. Glazing



FIG 4

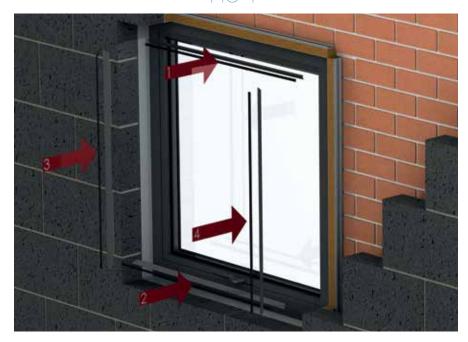


FIG 5

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





FIG 6

- **3.1.** Wherever practical, gaps around the window should be 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)

#### Contact

#### Accounts

t 08448 802 371 or 01494 416 895 **e** Finance@origin-global.com

#### Marketino

t 08448 802 374 or 01494 416 897 **e** Marketing@origin-global.com

#### Sales Operations

+ 0808 168 5816 or 01494 686 868 • Orders North Morigin - global con

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



FS 584084





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

- t 0808 168 5816
- e enquiry@origin-global.com
- w 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