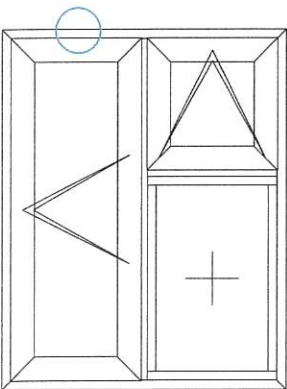
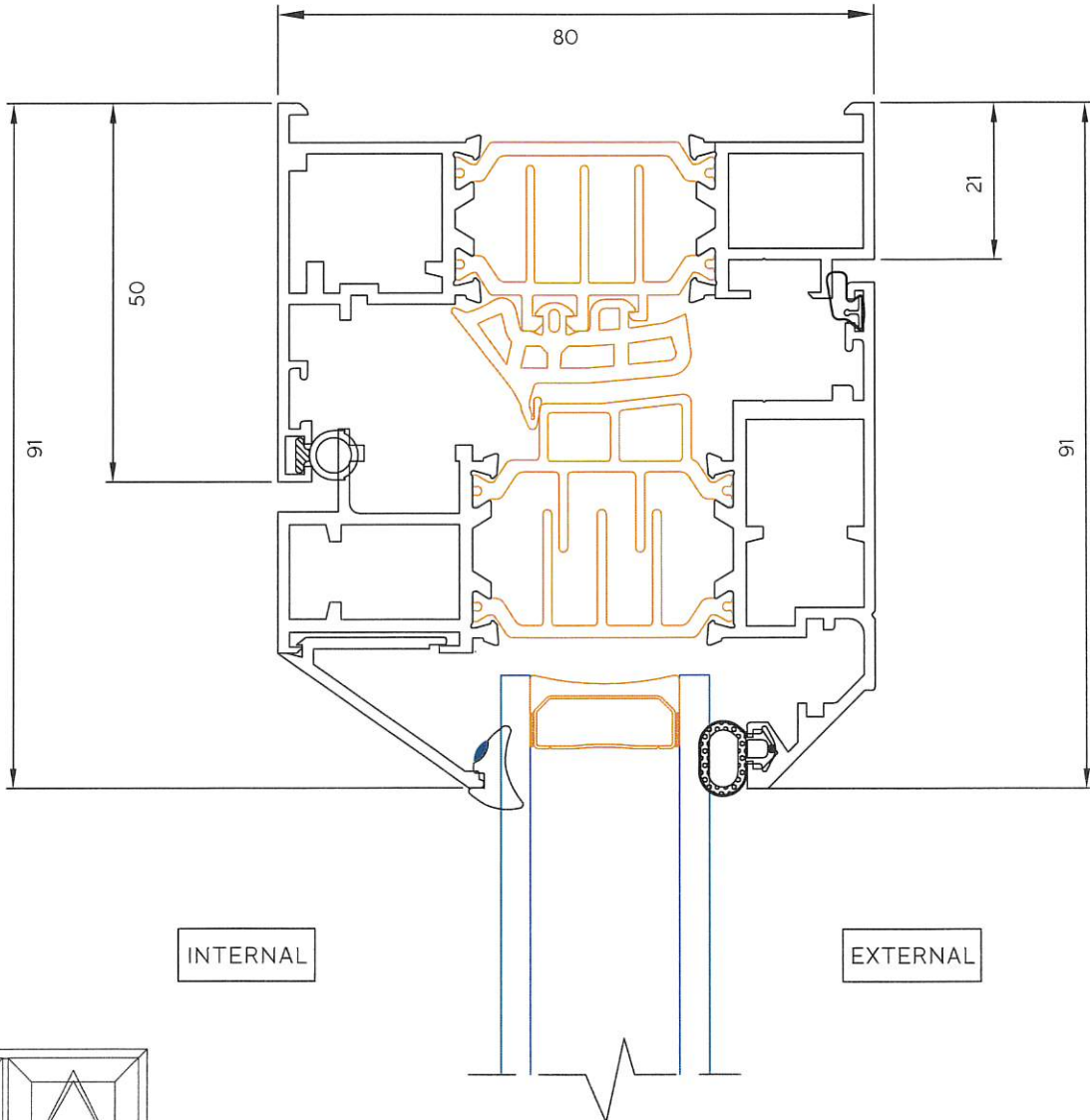


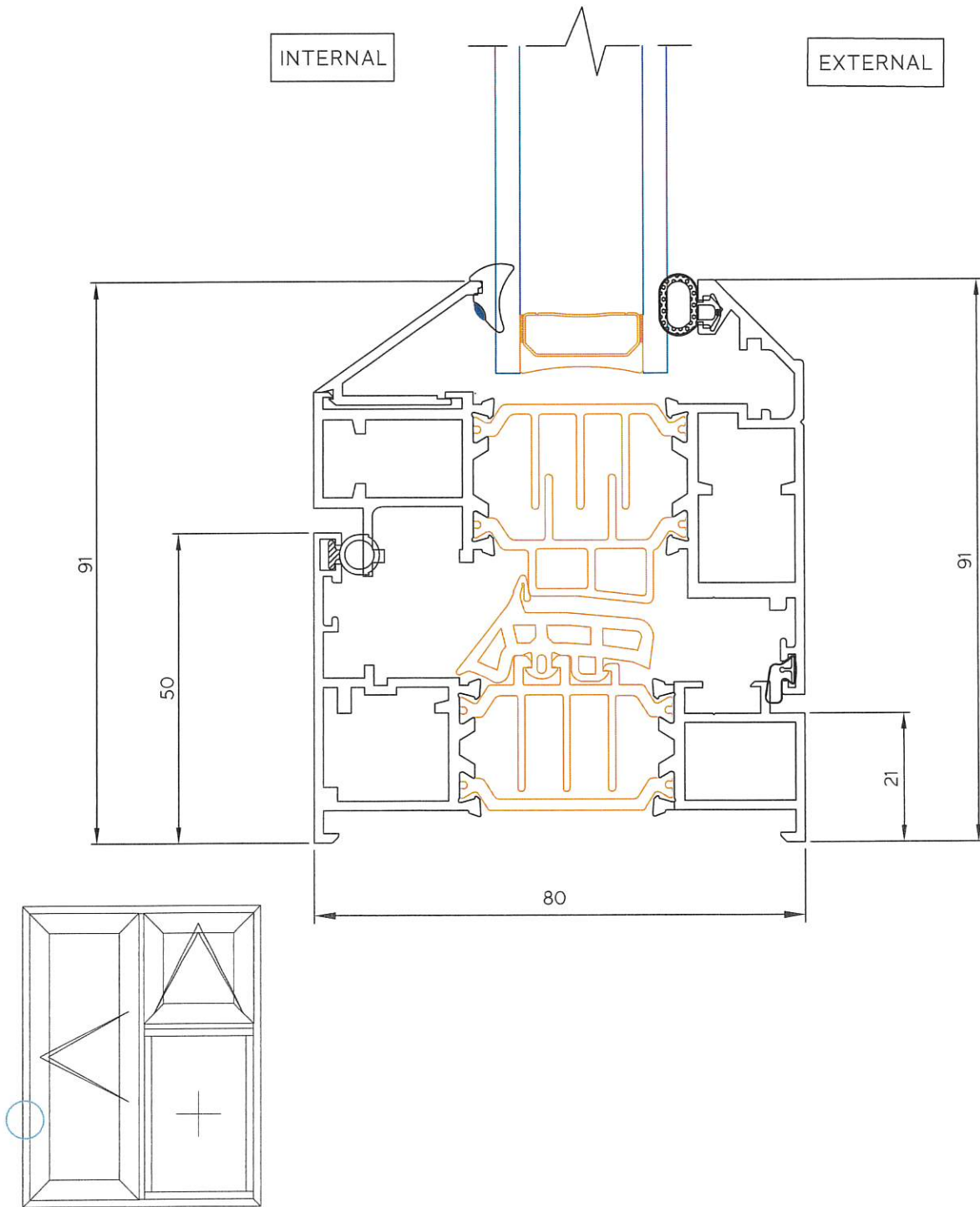
2

Sash Below Frame Detail



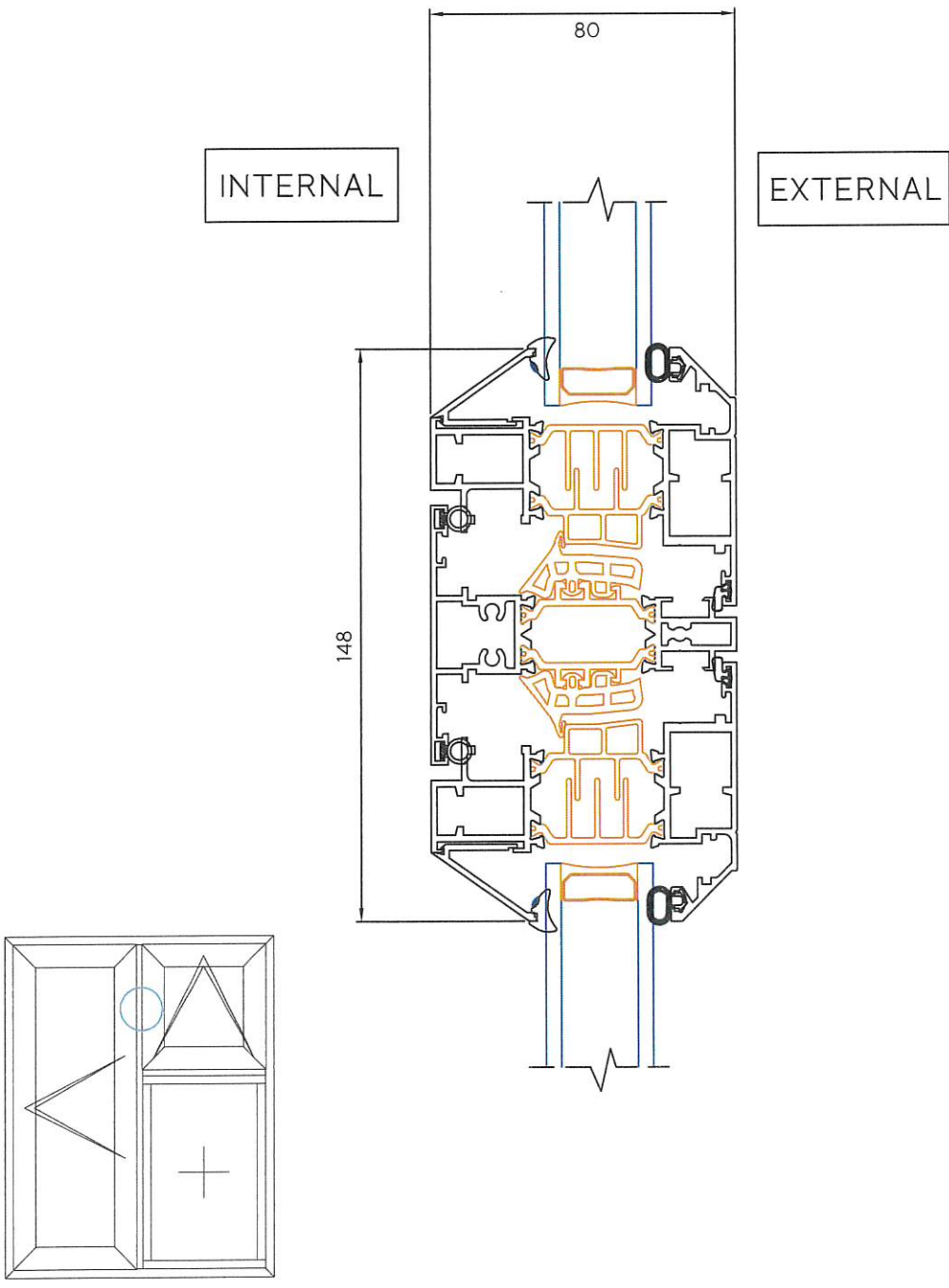
3

Frame Next to Sash Detail



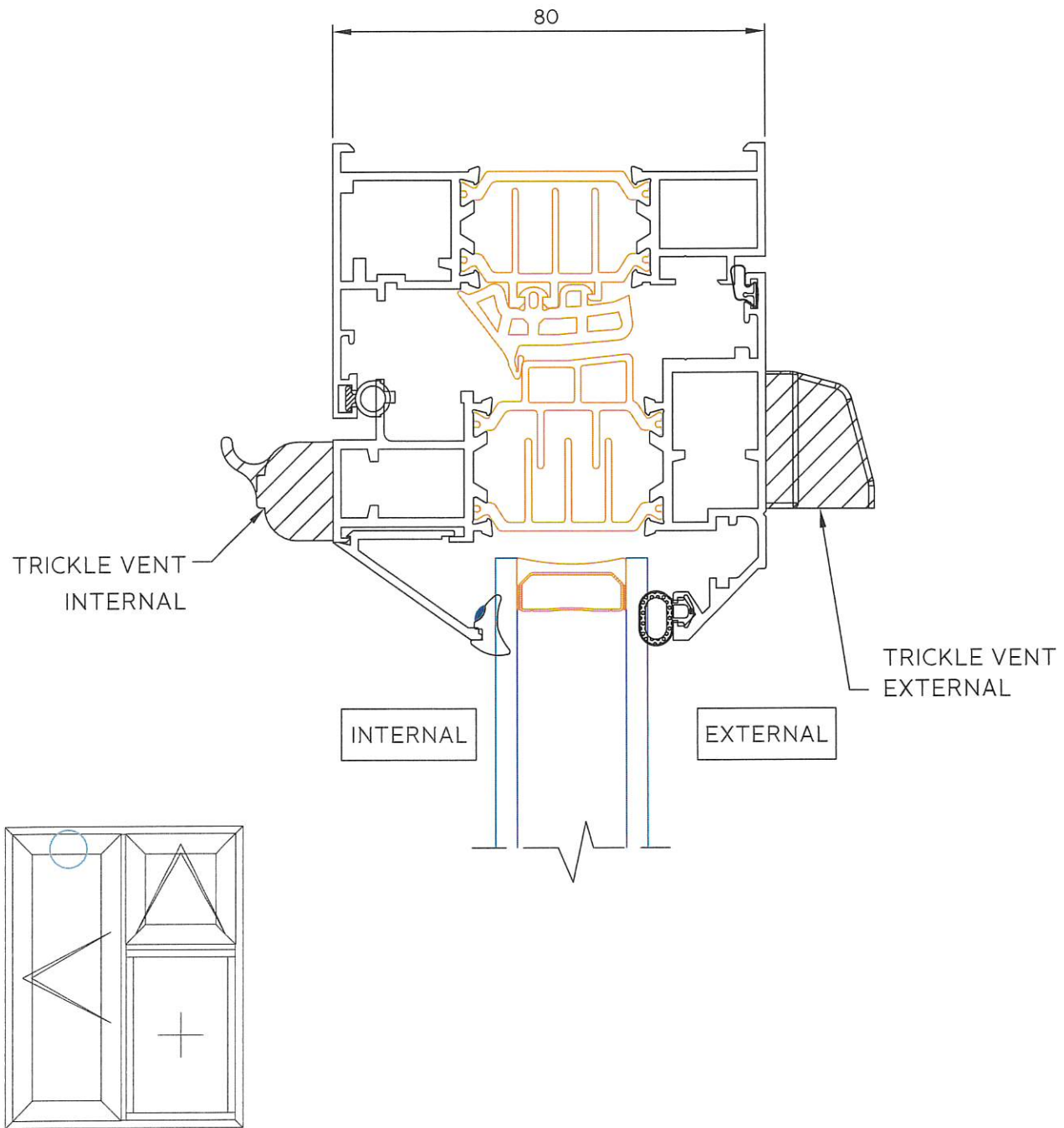
5

Mullion Sightlines - Sash-to-Sash Detail



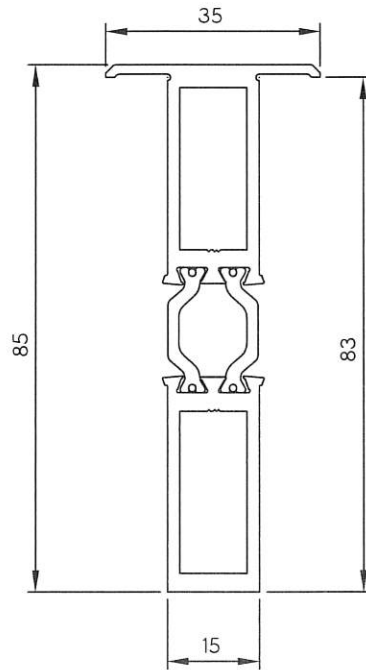
9a

Trickle Vent Through Sash Detail



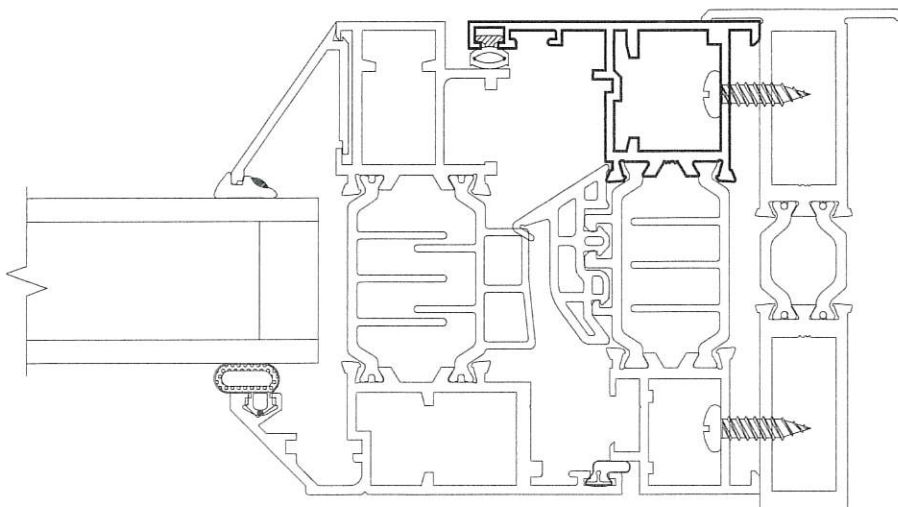
11a

Window-to-Window Coupler Detail



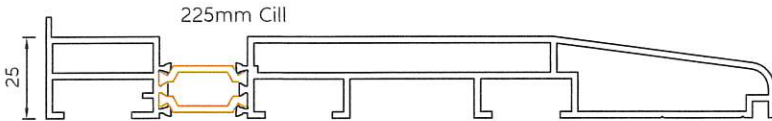
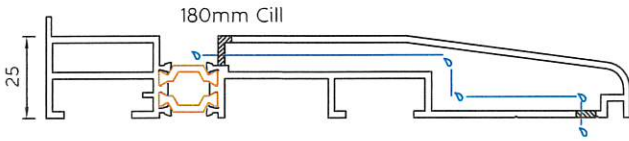
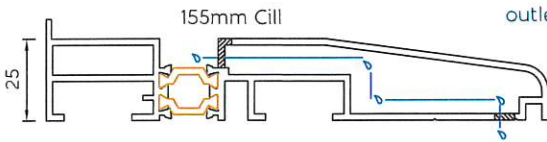
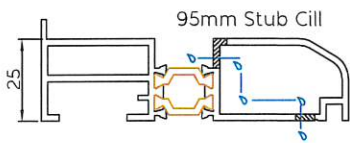
11b

Window-to-Window Coupler (Casement) Detail



15

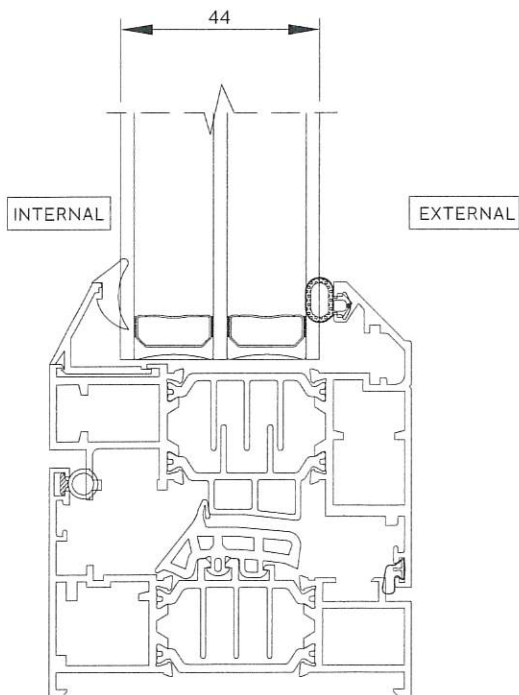
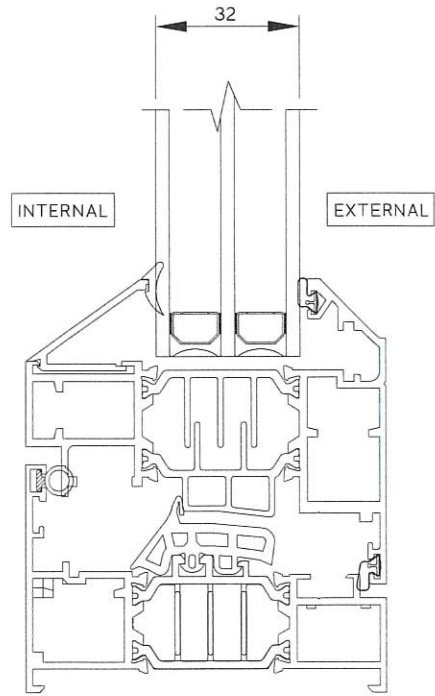
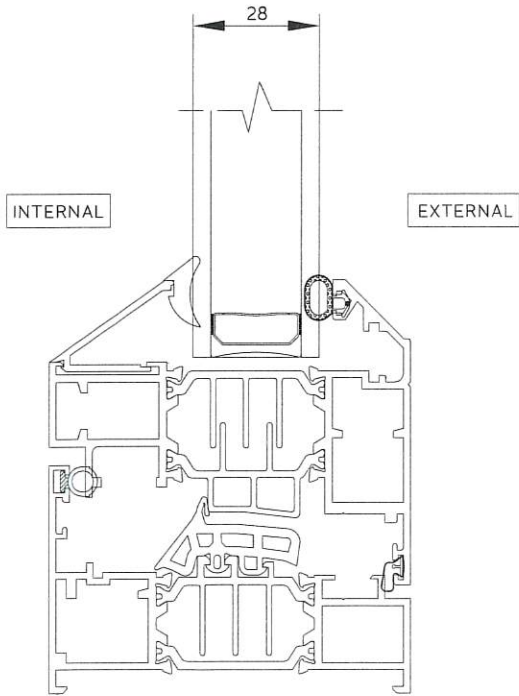
Cills



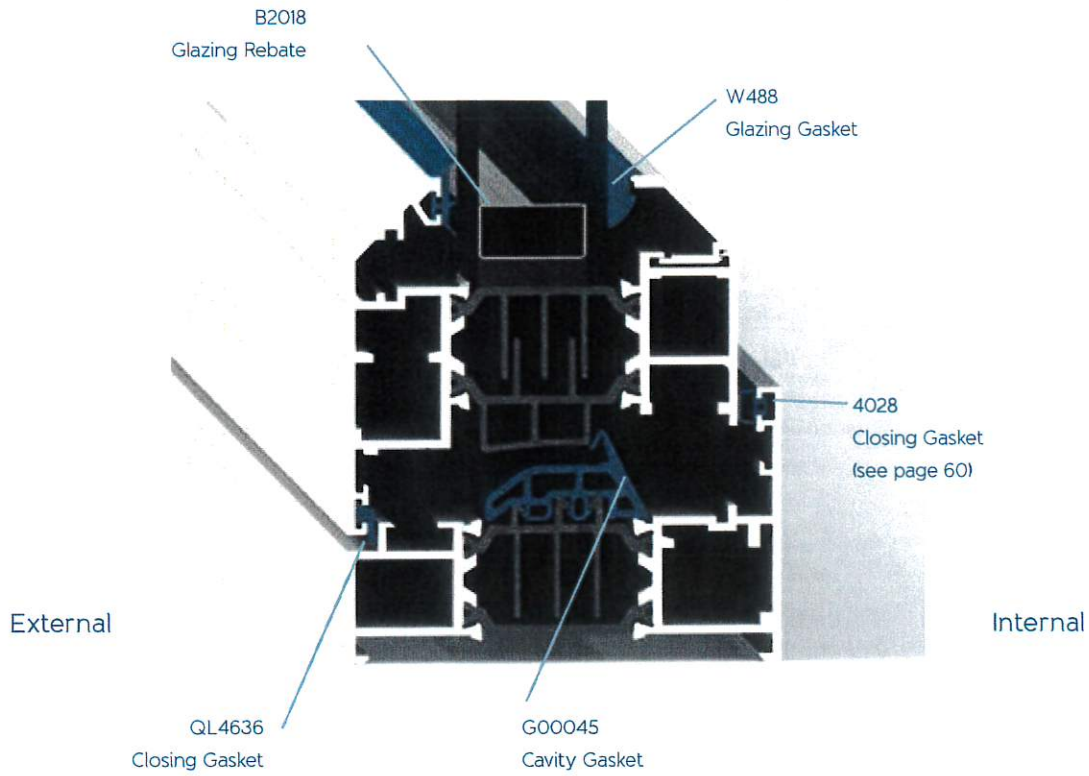
The 95mm stub cill can only be prepared with concealed drainage if the water can drain away towards the outside of the reveal. There must be a gap of at least 20mm between the drainage hole and the substrate in order to ensure the water can drain effectively. The substrate must be sloped to ensure the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

18b

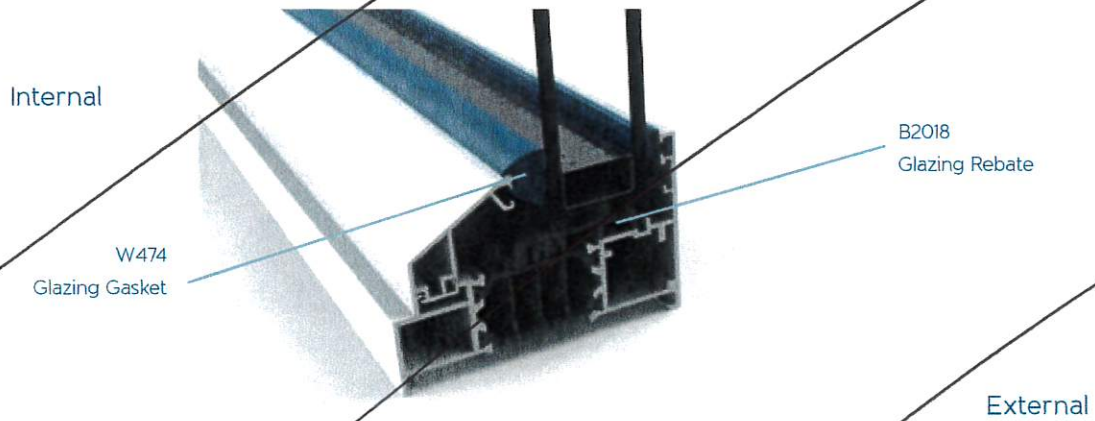
Casement Glazing Options



Cross Sectional Gasket Diagrams - Casement



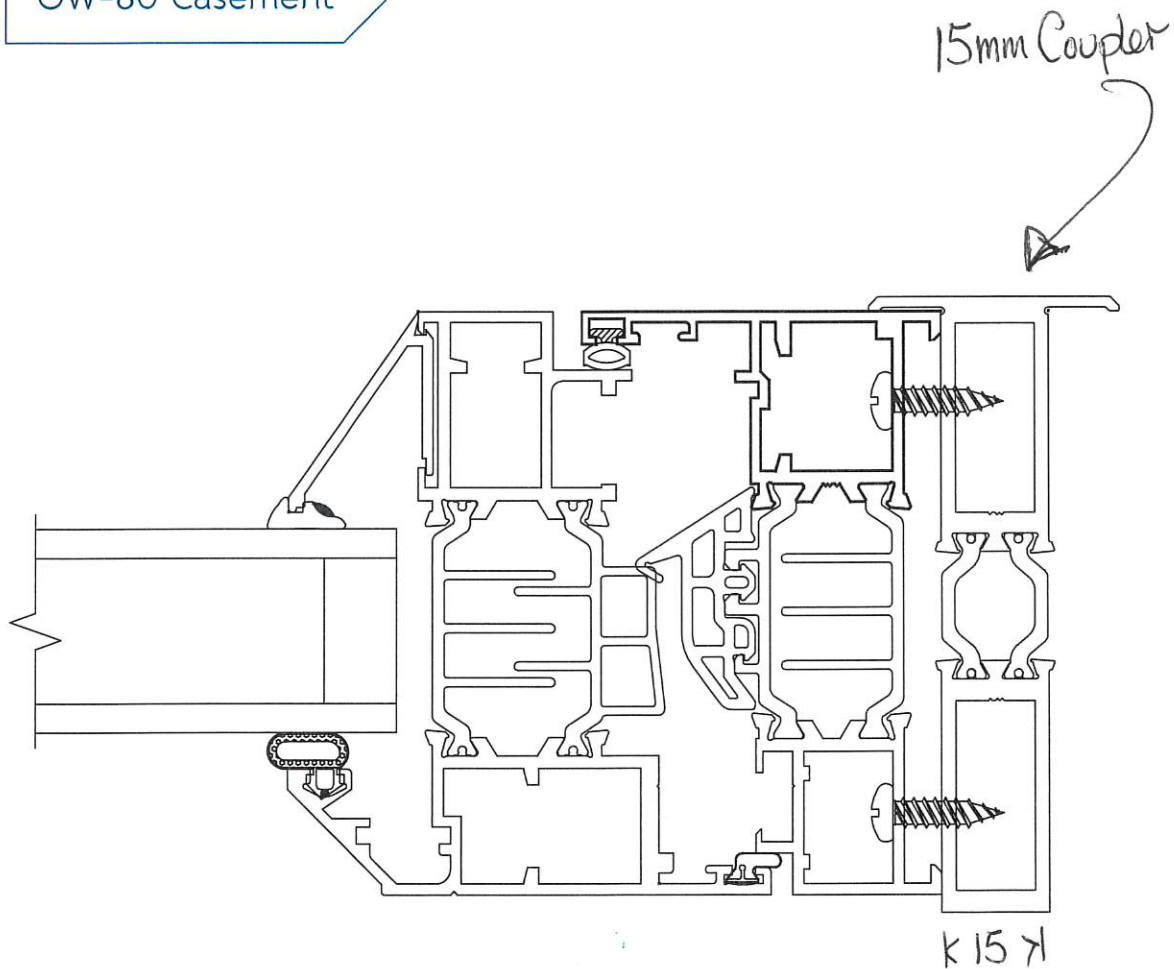
Cross Sectional Gasket Diagrams - Internally Beaded Fixed Frame



Universal Coupler Installation Guide

1

OW-80 Casement



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

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.

Secured by Design

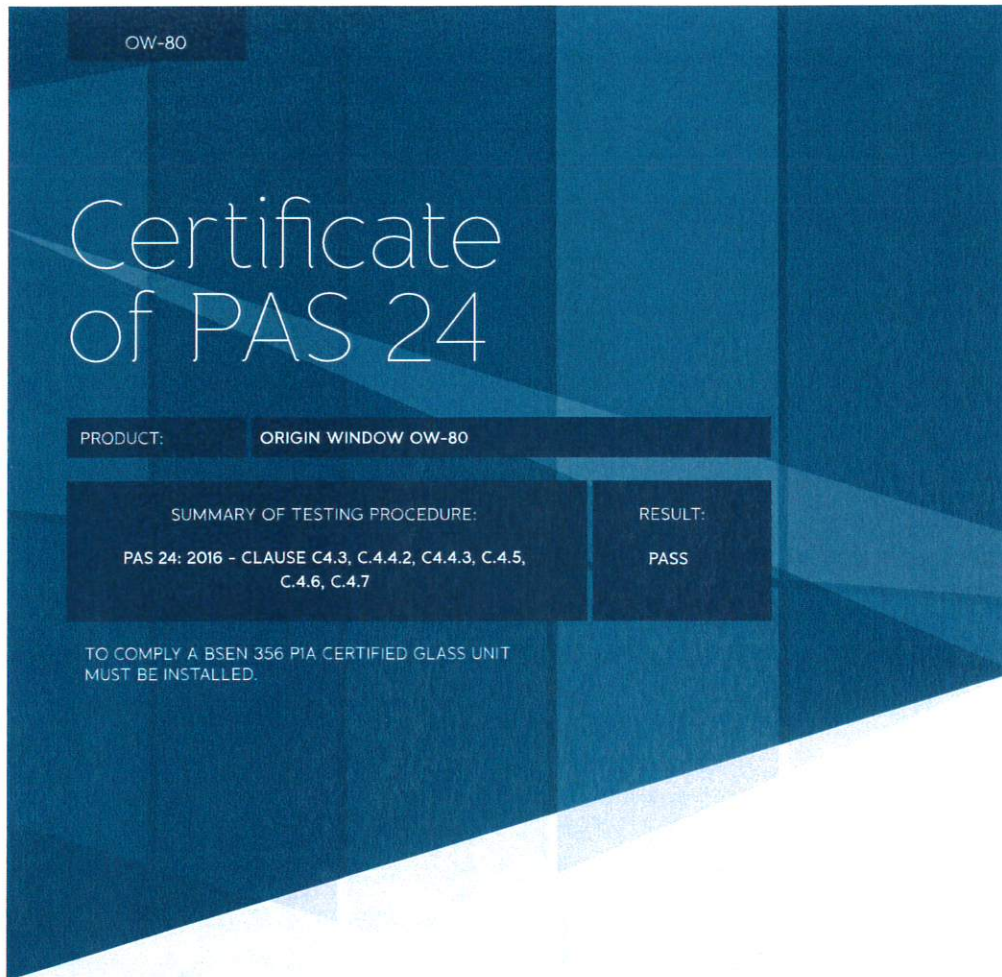


Police Preferred Specification

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.



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

Email: enquiry@origin-global.com | Web: www.origin-global.com
Origin Global HQ, Stuart House, Castle Estate, Coronat on Road,
Cressax Business Park, High Wycombe, Buckinghamshire, HP12 3TA
OFDL_18_1641



Building Regulation Requirements

New Build

Limiting Value 1.6 W/m²K

Replacements 1.4 W/m²K

Energy Rating B or better

All windows must conform to these requirements.

Thermal Efficiency

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

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

The OW-80 is available with Aerogel as an optional upgrade. Aerogel is the most insulating material on the planet and allows the OW-80 to achieve an Energy Rating of A++ or up to a 0.8 U-Value.

For more information on Aerogel, refer back to page 10 or visit www.origin-global.com/aluminium-windows

See the Window Energy Rating Specification Sheet on page 30 for certified test results.

Performance and Limitations

Origin Thermal Ratings

OW-80 Double Glazed	1.4 W/m ² K ●
OW-80 Double Glazed with Aerogel	1.2 W/m ² K
OW-80 Triple Glazed	0.9 W/m ² K
OW-80 Triple Glazed with Aerogel	0.8 W/m ² K
Energy Rating	From B to A++ (see page 24 - 30)

U-Value

Glazing

1.2 centre pane ●	1.4 W/m ² K ●
1.2 centre pane with Aerogel	1.3 W/m ² K
1.1 centre pane ●	1.4 W/m ² K ●
1.1 centre panewith Aerogel	1.2 W/m ² K
1.0 centre pane ●	1.4 W/m ² K ●
1.0 centre pane with Aerogel	1.2 W/m ² K
0.9 centre pane ●	1.2 W/m ² K
0.9 centre pane with Aerogel	1.1 W/m ² K
0.8 centre pane ●	1.2 W/m ² K
0.8 centre pane with Aerogel	1.0 W/m ² K
0.6 centre pane ●	1.0 W/m ² K
0.5 centre pane	0.9 W/m ² K
0.5 centre pane with Aerogel	0.8 W/m ² K

U-Value

- Minimum value for compliance with Building Regulations Part L for replacements
- Argon Gas Fill

Weather Rating

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

Performance

Performance Testing

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