

# ECLIPSE Technical data sheet No 3 – CASEMENTS WINDOWS



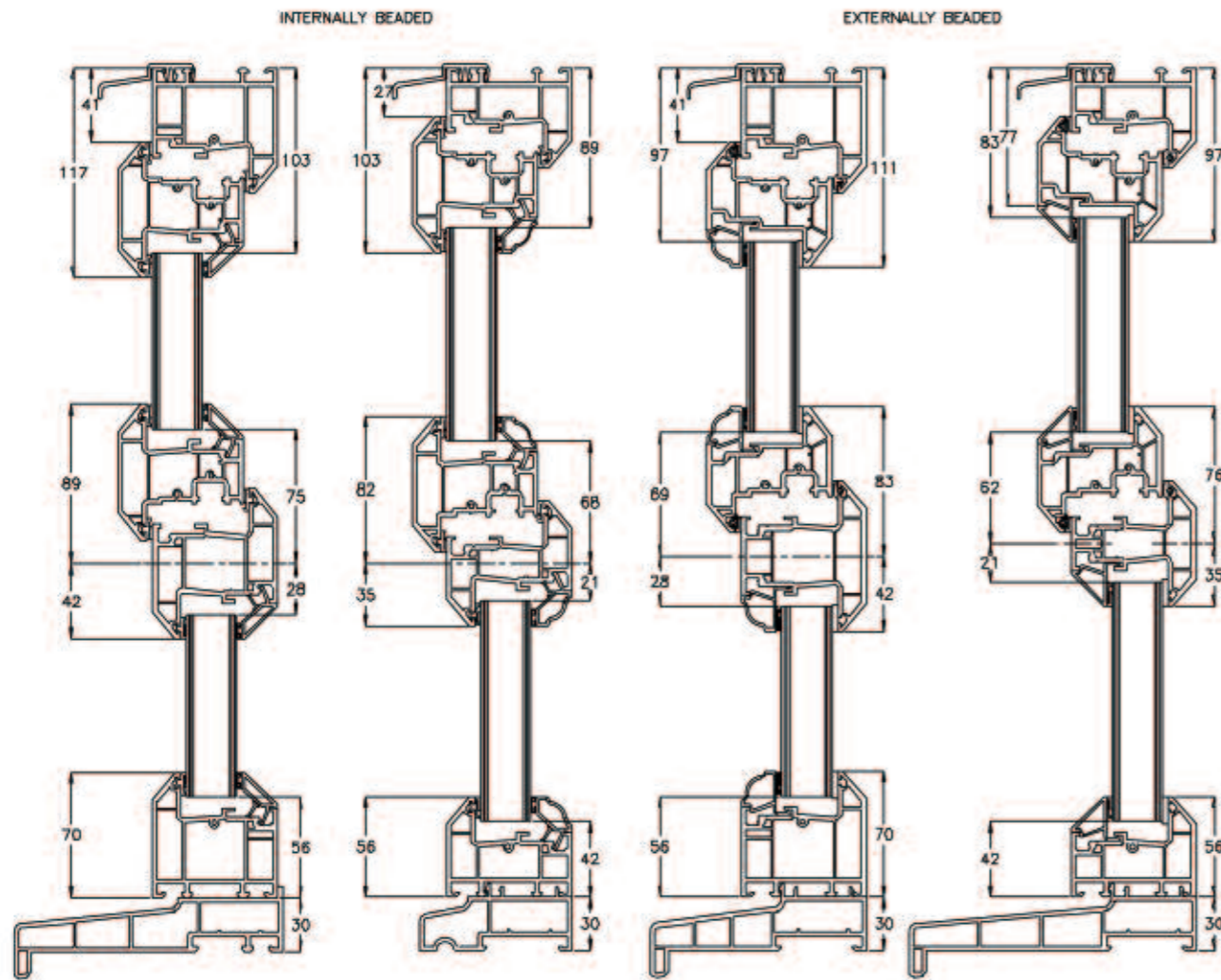
Windows • Doors • Conservatories

**ECLIPSE**

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# Typical cross section



All dimensions are shown in mm

Eclipse casement windows are made to order to the sizes and sash configurations specified by the customer, subject only to the following size limitations.

All dimensions are shown in mm						
Minimum Width	400	400	400	400	400	400
Minimum Height	400	400	400	800	800	800
Maximum Width	2000	1250	700	1800	1200	700
Maximum Height	2000	1250	1350	2000	2400	2400

All dimensions are shown in mm. All styles shown are as viewed from the OUTSIDE. The hinged side of the vent is designated by the point of contact between the window frame component and the pinnacle of the triangle depicting the vent. Sizes in brackets denote use of 70mm outerframe.

All dimensions are shown in mm							
Minimum Width	800	800	400	400	1200	1200	800
Minimum Height	400	400	800	800	400	400	800
Maximum Width	3600	3600	1200	700	3600	3600	1800
Maximum Height	1250	1350	2400	2400	1250	1350	2000

All dimensions are shown in mm								
Minimum Width	800	800	1200	1200	1200	1200	1200	1200
Minimum Height	800	800	800	800	800	800	800	800
Maximum Width	3600	1980	3600	1650	2250	1650	1650	3000
Maximum Height	1800	1350	1800	2400	1350	2400	2400	1650

**Note:** The individual friction stay manufacturers weight capabilities should be referred to when calculating maximum sash sizes and sealed unit configurations.

## Key Features List

- 70mm frame depth ensuring aesthetically pleasing installations
- Chamfered product design for slim sightlines
- Internal or External Beading options
- Chamfered or sculptured bead designs
- Single Leg or Shuffle Bead options
- Dedicated PVCu screw ports for secure fixing of hardware
- Designed to accept the latest hardware innovations
- Products enable compliance with latest Building Regulations
- 24mm and 28mm sealed unit depths
- Unique coupling nut system enables products to be fixed to each other quickly and securely
- Products tested to meet or exceed the performance requirements of BS7412 Wind and Water Testing – Classification Severe
- Products tested to meet or exceed the latest security standards, BS7950
- Products tested to BBA Weather Performance and Enhanced Resistance to Intrusion standards

## Manufacture

Each frame is designed to fit a specific aperture and is individually fabricated in accordance with the survey instructions and within pre-specified size parameters. Fabricated frames are fusion welded to ensure a strong weather resistant joint. Transoms and mullions are either welded or mechanically joined. Excess weld sprue can be mechanically or manually removed to leave a neat corner finish. Precise fixing of hardware is consistently achieved by the use of precision made jigs. Metal reinforcement is used in accordance with the detailed fabrication manual supplied by WHS Halo.

## Applications

The Eclipse casement window range is designed specifically for the UK and Irish climates and includes full side hung and top hung sashes. These can be combined in an extensive series of configurations, with or without fixed lights, and are suitable for low or medium rise buildings. Their slim sightlines, 70mm frame depth and low maintenance requirements make them ideally suited for private or public sector housing, new build, refurbishment projects and for many commercial and industrial applications.

## Security

Friction hinges combined with security claws and a shootbolt mechanism dramatically improve the resistance to unlawful entry. Eclipse casement windows, internally and externally beaded, have been tested to meet or exceed BS7950 and the BBA Enhanced Resistance to Intrusion Security Standards.

## Hardware Options

Handles are available in a wide choice of finishes and as either locking or non-locking versions. 'Press to operate' handles provide a further safety feature when required.

Friction hinges are manufactured from stainless steel Type 430. They incorporate a brass friction screw that permits adjustment to the degree of resistance of opening/closing. In the vast majority of cases they also allow the exterior of glass surfaces to comply with the cleaning access requirements of BS8213: Part 1: 1991. Austenitic Stainless Steel Type 304 is recommended for coastal applications or inland areas that are subject to high levels of air pollution.

Child safety – 'Restrictor' friction hinges, that limit the initial opening of the window are available to meet the requirements of BS8213 Part 1: 1991.

Fire safety – 'Egress' friction hinges allow a sash to open to a full 90 degrees thus providing an option for people, in an emergency, to exit a building via the window.

'Egress' friction hinges may also feature a device which enables the sash to be moved and the outside of the window to be cleaned from the inside of the building.

## Profile Finishes

Eclipse casement products are available in the following finishes:

- White
- Rosewood
- Light Oak
- Rosewood on the outside, White on the inside
- Light Oak on the outside, White on the inside

For complimentary white infill panels and finishing trims the recommended colour references are RAL 9010 OR NCS 0502-414R.

## Cleaning and Maintenance

PVCu is not affected by airborne pollution, salt, ozone or acid rain. In order to maintain the superior appearance of Eclipse products, frames should be wiped down with a mild liquid detergent as required. Proprietary brands of glass cleaners may also be used. The use of abrasive cleaning agents is not recommended as it may result in damage to the surface finish of the PVCu and/or the glass.

On an annual basis lubricate all pivot points sparingly with light machine oil.

