

Aluminium Casement Window System

Technical Data Sheet



Typical Sizes	Width(mm)	Height(mm)
Top Hung	1500	1500
Side Hung	900	1500
Average U-Values		
Residential CEN Standard (Double Glazed)	1.4 W/m2K	
Residential CEN Standard (Triple Glazed)	1.0 W/m2K	
Glazing		
Contemporary	28/44mm	
Glass Thickness	up to 44mm	
Testing		
Energy Rating	A	
Security	PAS24:2022 & SBD	
BS6375-2	✓	
BS6375-3	✓	

Specification options	
Window Type	Flush/ Standard/ Heritage
Visible Sightline Frame/ Sash	70mm
Max Weight Top Hung	50kg
Max Weight Side Hung	40kg
Max Height Top Hung	1500mm
Max Width Top Hung	1500mm
Max Width Side Hung	900mm
Air Permeability	600PA
Water Tightness Top Hung	1500PA
Water Tightness Side Hung	450PA
Wind Load Resistance	2000PA

Scope

The Aluminium Casement Window has been designed to meet current and future building regulations, in addition to market-leading features such as our super-slim sash. Secure to PAS24:2022 certification, the ALUNA Window exceeds Part L compliance with a WER rating of A, and a new built requirement of 1.4 W/(m2k) is achieved when combined with highly energy efficient glass.

Materials

- Extruded aluminium is generally Aluminium Alloy 6060.T6/ T66, 6063.T6/T66, 6082.T6 to BS EN 755-9 and EN 12020-2.
- Polyamide thermal barriers are manufactured in accordance with PA66 GF25.
- The gasketry is generally manufactured in accordance with BS ISO 3302-1.
- The fixings are generally A2 Stainless Steel screws

Finishes

Window sections are available in stock in five finishes:

- Minimum 60 microns as standard / Marine grade / Qualicoat as standard
- Anodised finishes are to BS3897 to a minimum of 25 microns (AA25), supplied in either satin or polished finish in a limited range of colours.
- Mill finish / 9005 M / 7016 M / 9016 G / Dual 9005 on 9016 / Dual 7016 on 9016. Any other RAL in 4 weeks

Construction

The window is constructed using mitred corners, joined with crimped cleats; alignment chevrons assist in clean, accurate mitres. Integral transoms and mullions are scribed around the outer frames and fixed with either screwports or shearblocks. A proprietary sealant is used on all metal joints in line with good practice. Opening window frames are designed to be inserted directly into the outer frames using friction stays.