

Ali VU Flush Casement Window System

Technical Datasheet

Scope

The Ali VU Flush Casement window system has been designed to meet current and future building regulations, with impressive thermal performances. Ali VU is an evolved generation of aluminium window systems manufactured in the UK. It combines the long life and low maintenance of powder coated aluminium with a polyamide high performance thermal barrier. Ali VU Flush Casement windows are capable of accepting glazing up to 44mm thick.

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

Ali VU Flush Casement window sections are available typically in three finishes.

- Polyester Powder Coating to BS EN 12206-1 Part 1 painted in house. Surface finish to a minimum of 40 microns standard, or enhanced to suit project requirements, in accordance with ISO 9001, ISO 14001 and ISO 45001.
- 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.

Construction

Ali VU 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.

Environmental

Senior Architectural Systems is fully compliant with BS EN ISO 9001, BS EN ISO 14001, ISO 45001 and BES6001 standards. When used on projects involved in a BREEAM assessment, or within the Code for a Sustainable Built Environment, (which therefore involves the Green Guide specification) can offer significant benefits. For project specific assistance, please contact our specification team.

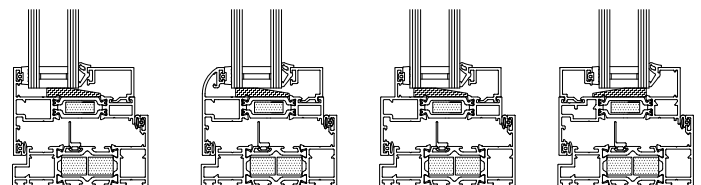
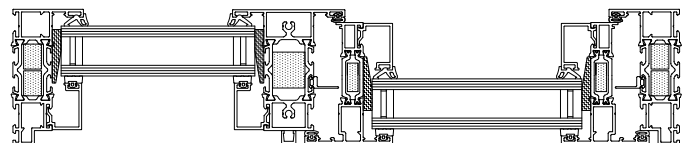


**Image for indicative purposes only*

Typical Sizes	Width (mm)	Height (mm)
Top hung	1400	1400
Side Hung	950	1400
*Average U-values		
Residential CEN standard (Double Glazed)	1.4 W/m ² K	
Residential CEN standard (Triple Glazed)	1.0 W/m ² K	
Glazing		
Radius & Stepped Vent Option	24mm - 36mm	
Outer Frames & Flat-faced Option	24mm - 44mm	
Testing		
Security	PAS24 & SBD	
BS6375 - 1	Air Permeability 600Pa	
	Water Tightness 600Pa	
	Wind Resistance 1600Pa	
BS6375 - 2	✓	

**All calculations are based on CEN sized windows at 1230mm x 1460mm.*

Test certifications available upon request.



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