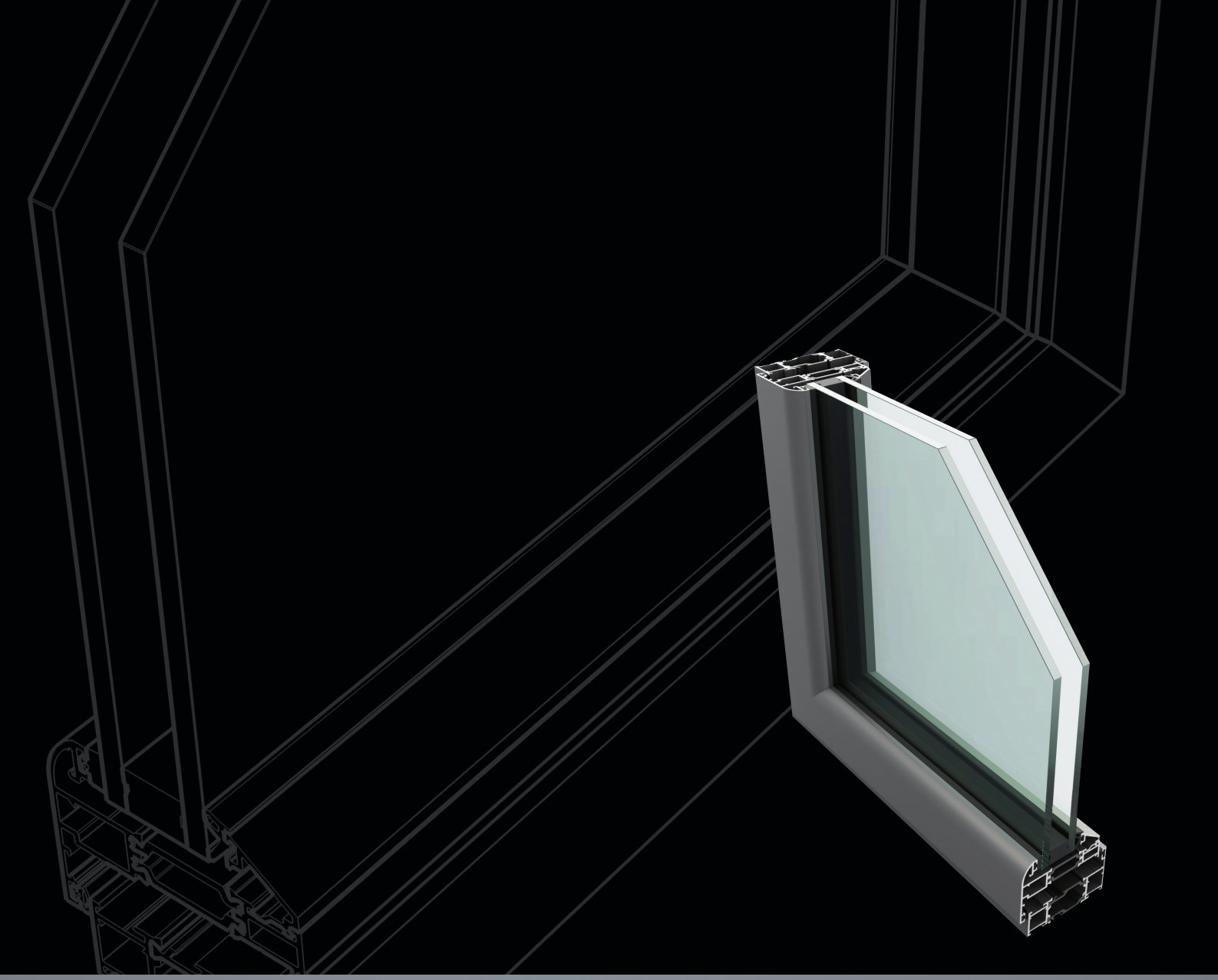

Technical information

Ali VU
casement window system

SENIOR **ALUMINIUM** SYSTEMS™

Scope

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

Materials

- All aluminium sections are extruded using Aluminium Alloy 6060 or 6063 T6 to BS EN 755 part 9 2008 or BS EN 12020-2.
- Polyamide thermal barriers are manufactured in accordance with PA66 GF25.
- Gaskets are manufactured in accordance with BS3734.

Finishes

Ali VU casement window sections are available typically in two finishes.

- Polyester Powder Coating to BS EN 12206-1: 2004 Part 1 – painted in house. Surface finish at 40 microns standard, or enhanced to 60 microns for marine environments, in accordance with ISO 9001, ISO 14001 and ISO 18001.
- Anodised finishes are to BS3897:1991 to a minimum of 25 microns (AA25), supplied in either satin or polished finish in a limited range of colours.

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

Typical* sizes

	Width (mm)		Height (mm)
Top hung	1400	x	1400
Side hung	950	x	1400

*For guidance only – when exceeded please consult our technical department

Weather Rating
BS6375 part 1

Air Permeability	600Pa
Water Tightness	600Pa
Wind Resistance	1600Pa

Glazing

Radius and stepped vent option	28mm - 36mm
Outerframes and flat-faced option	28mm - 44mm

Testing

Tested to PAS24, BS6375-1, BS6375-2 and BS6375-3

Average U values

Residential CEN standard	1230 x 1480
28mm Double Glazed Unit	1.5 W/m²K
44mm Triple Glazed Unit	1.1 W/m²K

Figures based on flat-faced vent option

Window Energy Rating

Double Glazed Unit	Capable of achieving A rating*
Triple Glazed Unit	Capable of achieving A+ rating*

*section and configuration dependent

Environmental

Senior Architectural Systems is fully compliant with BS EN ISO 9001, BS EN ISO 14001 and OHSAS 18001 standards.

Ali VU, when used on projects involved in a BREEAM assessment, or within the Code for a Sustainable Built Environment and the Code for Sustainable Homes (which therefore involves the Green Guide to specification) can offer significant benefits. For project specific assistance, please contact our specification team.

Specification. ***Please contact our national team of architectural advisors for advice on product suitability, calculations and NBS or bespoke specifications.***

Senior Architectural Systems Ltd, Eland Road, Denaby Main, Doncaster, South Yorkshire, DN12 4HA.
Tel: **01709 772 600.** E-mail: **info@sasmail.co.uk** **www.seniorarchitectural.co.uk**

Due to a policy of continual product development, Senior Architectural Systems Ltd reserves the right to alter any of the specifications given in this publication without prior notice. The specification for any given application must be checked with Senior Architectural Systems Ltd prior to manufacture. No responsibility for accuracy is accepted by Senior Architectural Systems Ltd.