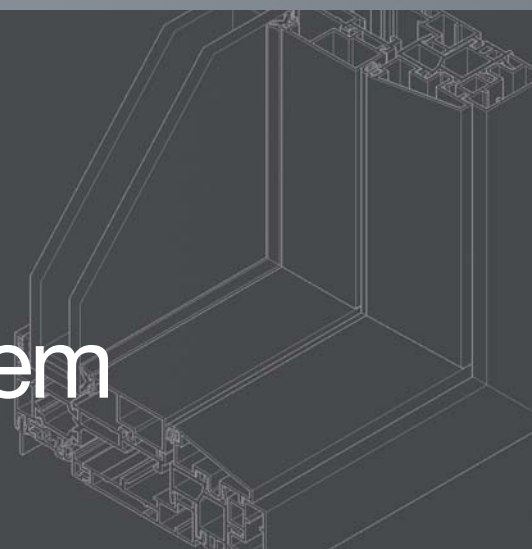




Product focus

# Aluminium Series 2 casement window system



SENIOR **ALUMINIUM** SYSTEMS™



## Pleckgate School Blackburn

Pleckgate High School, Mathematics and Computing College were the first Building Schools for the Future (BSF) school in Blackburn. Senior Series 2 windows were chosen to provide a wonderful, contemporary learning environment. Bright accent colours for colour coding were chosen throughout the school to complement the daylight drenched classrooms and provide themed sections, based on activity - yellow for PE, music, drama and media; turquoise for creativity (art and technology); lime green for discovery (science and maths) and orange for global which incorporates languages, history, geography and RE.

**Architect:**  
Aedas Ltd

**Main Contractor:**  
Balfour Beatty  
Construction Ltd

**Fabricator:**  
Dortech Ltd

**Products:**  
Aluminium Series 2

## Scope

Aluminium Series 2 casement windows feature slimmer sightlines for increased aesthetics and have been designed to exceed current and meet future building regulations, with impressive U Values and thermal performances. The Aluminium Series 2 casement windows are capable of accepting glazing up to 44mm thick depending on weight.

## 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

Aluminium Series 2 Casement window sections are available typically in two finishes.

- Polyester Powder Coating to BS EN 12206:2004 Part 1 – painted in house. Surface finish at 40 microns standard, or enhanced to 60 microns for marine environments, in accordance with ISO9001, ISO14001 and ISO18001.
- 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

Aluminium Series 2 casement windows are constructed using mitre corners, joined with crimped alignment chevrons which assist in clean accurate mitres. Integral transoms and mullions are scribed around the outer frames and fixed with either screw ports or shear blocks. 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, and glazed internally.

## Weather Rating

BS6375 Part 1: 2009

Air Permeability	600 Pa
Water Tightness	600 Pa
Wind Resistance	2400 Pa

## Typical\* sizes

	Width (mm)		Height (mm)
Top Hung Open Out	1600	x	1600
Side Hung Open Out	1000	x	1600

\*For guidance only - when exceeded please consult our technical department.



## Glazing



Thickness	28mm	to	44mm
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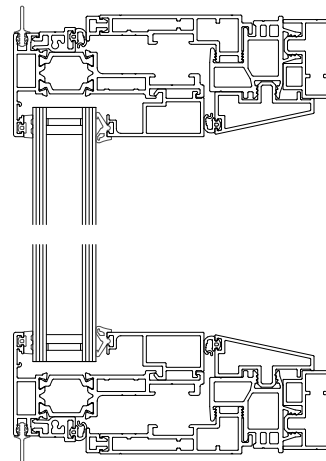
## Security

Tested to PAS24:2012, BS6375 Part 2 & 3

## Average U values

Residential CEN standard	1230 x 1480
 28mm Double Glazed Unit	1.50 W/m <sup>2</sup> K
 44mm Triple Glazed Unit	1.14 W/m <sup>2</sup> K

Commercial CEN standard	1230 x 1480
 28mm Double Glazed Unit	1.34 W/m <sup>2</sup> K
 44mm Triple Glazed Unit	0.95 W/m <sup>2</sup> K



## Environmental

Senior Architectural Systems is fully compliant with BS EN ISO9001, BS EN ISO14001 and OHSAS 18001 standards.

Aluminium Series 2 casement windows 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.**

## HEAD OFFICE

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[www.seniorarchitectural.co.uk](http://www.seniorarchitectural.co.uk)



ALUMINIUM

HYBRID

FIBRE

GLASS



SENIOR ARCHITECTURAL SYSTEMS

Senior Architectural Systems is a major UK supplier of fenestration solutions, specialising in providing aluminium, timber, glass and fibreglass glazing systems to the highest standards.