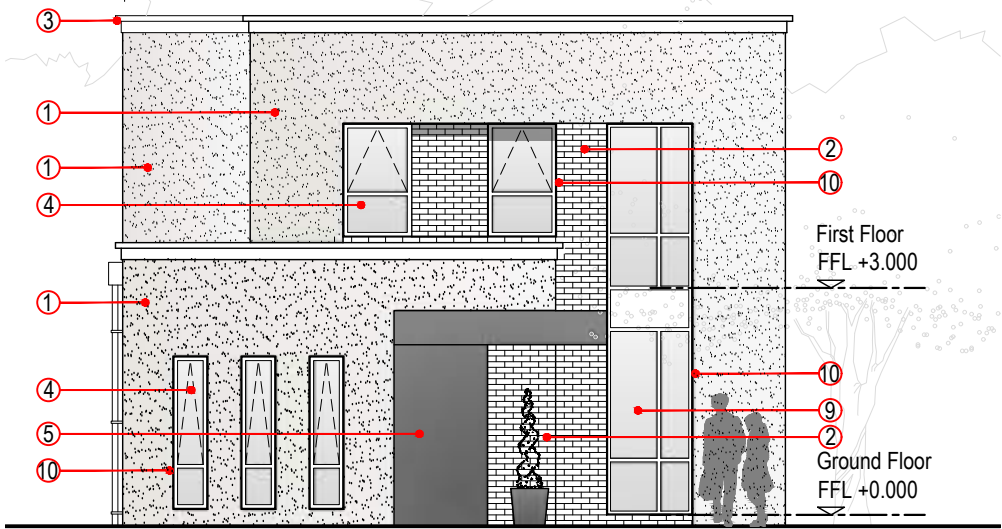


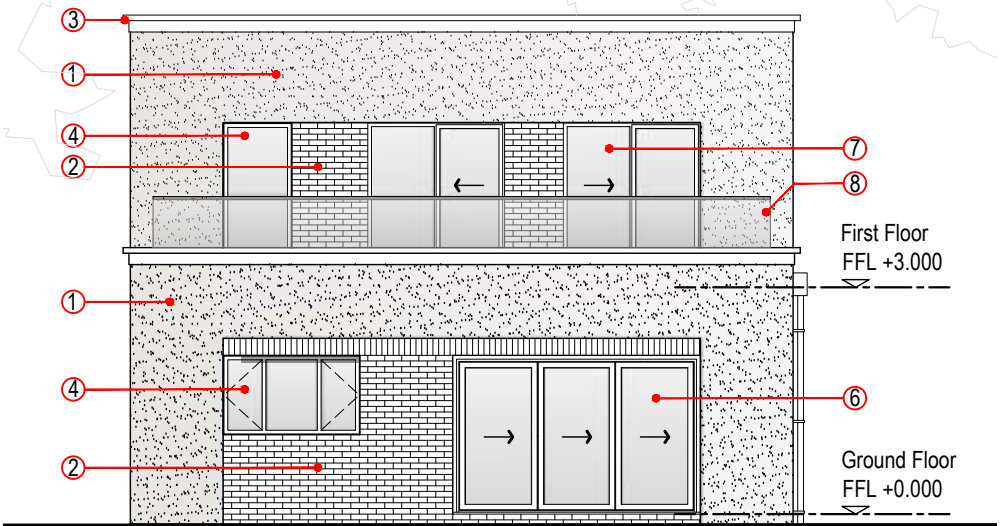


Indicative Materials Visual



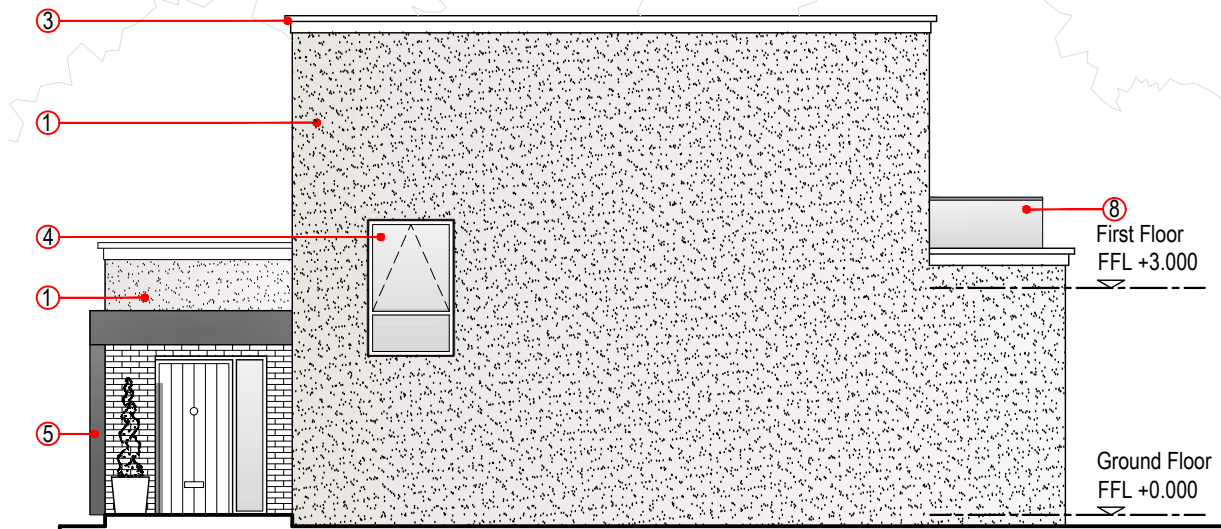
PROPOSED FRONT ELEVATION

1:100@A3



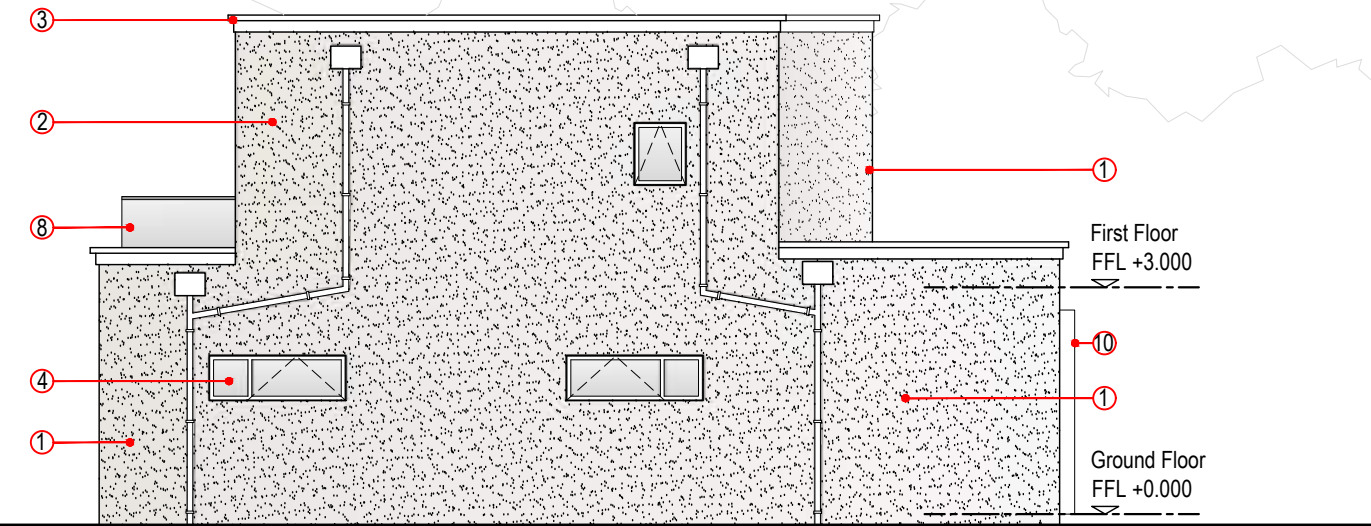
PROPOSED REAR ELEVATION

1:100@A3



PROPOSED SIDE ELEVATION

1:100@A3



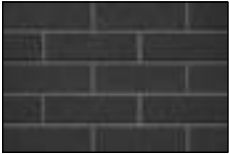
PROPOSED SIDE ELEVATION

1:100@A3

- ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE.
- ANY DISCREPANCIES ARE TO BE REPORTED TO CUBE ARCHITECTURE AND DESIGN BEFORE ANY WORK COMMENCES.
- THIS DRAWING SHALL NOT BE SCALED TO ASCERTAIN ANY DIMENSIONS. WORK TO FIGURED DIMS ONLY.
- THIS DRAWING SHALL NOT BE REPRODUCED WITHOUT EXPRESS WRITTEN PERMISSION FROM CUBE ARCHITECTURE AND DESIGN.
- TITLE OVERLAY DRAWINGS AND OWNERSHIP BOUNDARIES ARE PRODUCED USING ALL REASONABLE ENDEAVOURS. CUBE ARCHITECTURE AND DESIGN CANNOT BE RESPONSIBLE FOR THE ACCURACY OR SCALE DISCREPANCY OF BASE PLANS SUPPLIED TO THEM.

EXTERNAL FINISHES SPECIFICATION

- ① Wetherby Wall Systems silicone render system, colour 1002Y50R, applied as a complete proprietary system.
- ② Michelmersh, Blockley, Black Wirecut brickwork with dark grey factory-blended proprietary mortar (not site-mixed).
- ③ Pressed metal coping - Finish Colour Dark Grey.
- ④ Aluminium frame double glazed window unit by Senior Architectural Systems (or similar), Ali VU Flush Casement system, frame Finish colour Grey.
- ⑤ Cladded Entrance canopy - projecting canopy and side wall return from 18mm ext quality ply lined light gauge steel or treated timber sub frame fixed back to external masonry and clad with HPS200 Ultra coated secret fix aluminium fascia panels. Canopy cladding colour: Grey
- ⑥ Aluminium framed double glazed 3 panel bi-folding door unit by Senior Architectural Systems (or similar), Ali FOLD Door system, Frame Finish colour Grey.
- ⑦ Aluminium framed double glazed 3 panel bi-folding door unit by Senior Architectural Systems (or similar), Ali SLIDE Door system, Frame Finish colour Grey.
- ⑧ Frameless toughened laminated glass balustrade with s/s top rail
- ⑨ Aluminium frame double glazed curtain wall system with spandrel panel across intermediate floor zone by Senior Architectural Systems (or similar), SCW Curtain Wall System, frame Finish colour Grey.
- ⑩ Feature projecting window shroud around aperture from pressed metal Finish Colour to match window



Rev	Description	Date	By
Status: PLANNING			
Client: TBC			
Contract: LAND TO REAR OF HARROW AVENUE BAMFORD, ROCHDALE			
Drawing: HOUSE TYPE 2 PROPOSED EXTERNAL MATERIALS			
Drawing No: AS826-SK17	Revision:	Scales: 1:100 @A3	
Drawn: DMR	Checked:	Date: JAN '26	

Product Technical Information Sheet

Blockleys™

Black Wirecut

Configuration (EN 771.1):	Vertically Perforated Clay Facing Brick		Dimensions:	215 x 102, 5 x 65 mm	
Compressive Strength:	>= 50	N/mm²	Dimensional Tolerance:	T2	
Compressive Strength Category:	II		Dimensional Range:	R2	
Freeze/Thaw Resistance:	F2		Water Absorption:	=< 12	%
Soluble Salts Content Category:	S2		Initial Rate of Water Absorption:	1.3	kg/m².min
Reaction to Fire:	Class A1		Dangerous Substances:	N/A	
Thermal Conductivity (P = 50):	0.72	W/m.K	Thermal Resistance (P = 50):	0.14	m².K/W
Thermal Conductivity (P = 90):	0.79	W/m.K	Thermal Resistance (P = 90):	0.13	m².K/W
Void Percentage:	23 - 28	%	Net Dry Density:	2290	kg/m³
Water Vapour Permeability Coefficient:	50/100		Gross Dry Density:	1640	kg/m³
Bond Strength (fixed value):	0.15	N/mm²	Density Tolerance:	D1	
Quantity per Pack:	400		Product Weight:	2.7	kg
DoP common root reference code:	--BL65FABR--		Products per Square Metre:	60	

Clay bricks are manufactured and supplied to relevant clauses of **BS EN 771-1**.

Declarations of performance, environmental and other policies can be found on the company website: www.mbhplc.co.uk. Further information is available via our sales department on 0844 931 0022 or email sales@mbhplc.co.uk.



Technical data correct at the time of issue. Please order a sample for accurate representation of product.

Issue Date: 21/07/2025

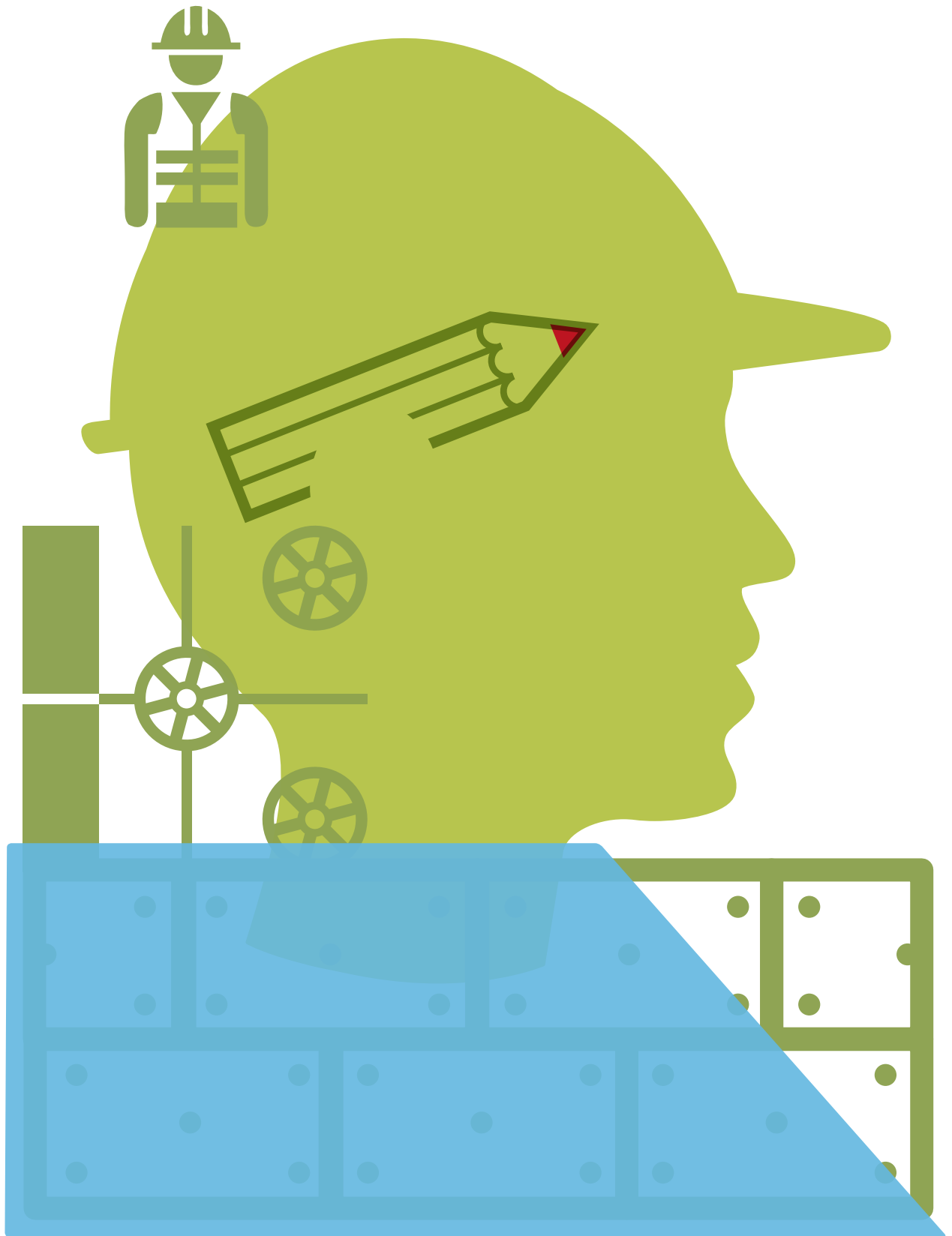


SYSTEM SOLUTIONS

Thin Coat Systems

Creating Attractive Façades





System Overview

Thin coat render finishes have been used throughout Europe since their introduction in the 1950's. The UK in particular has witnessed a significant rise in popularity, as we see installers and end clients recognising the benefits of a contemporary, yet durable finish.

Wetherby's versatile Thin Coat Render Systems are available in endless texture and colour options enabling specifiers flexibility whilst delivering a clean, modern and vapour permeable façade.

With a wealth of options from clean contemporary exteriors, replication of stone blockwork or ashlar jointing facades, we're confident we have a product that can meet any design aspiration. While our thin coat renders are often utilised for full elevations, they can also be effectively combined with some of our other finishes, such as brick slips or spar dash, to create contrasting visual interest to facades.





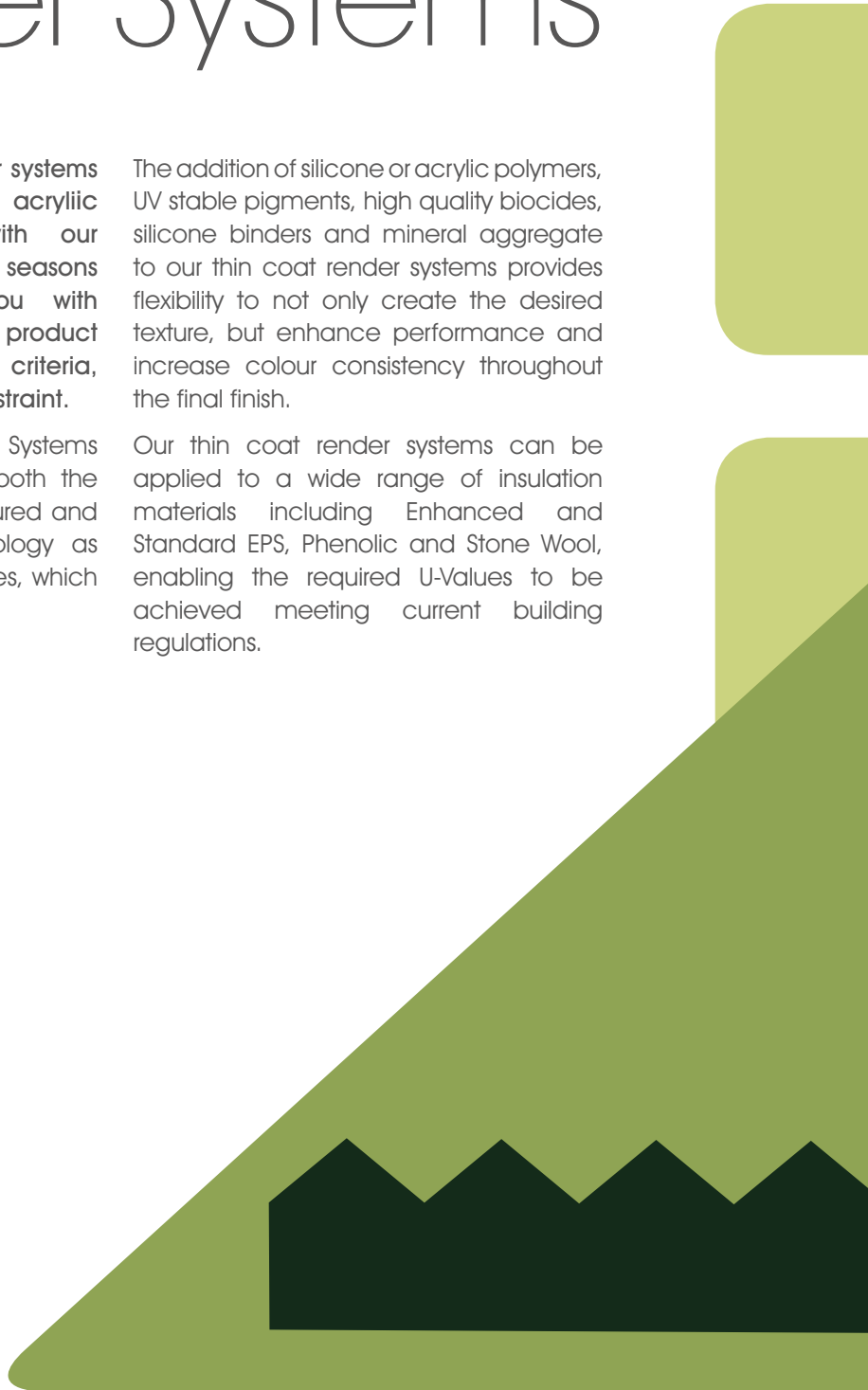
Thin Coat Render Systems

Our portfolio of thin coat render systems comprises of silicone and acrylic render products, along with our unique mineral render and four seasons silicone render. Providing you with confidence that we have a product that can meet any design criteria, budget and UK weather constraint.

Wetherby Thin Coat Render Systems do not contain cement and both the primer and finish are manufactured and tinted using the same technology as paint, unlike monocouche finishes, which contain cement.

The addition of silicone or acrylic polymers, UV stable pigments, high quality biocides, silicone binders and mineral aggregate to our thin coat render systems provides flexibility to not only create the desired texture, but enhance performance and increase colour consistency throughout the final finish.

Our thin coat render systems can be applied to a wide range of insulation materials including Enhanced and Standard EPS, Phenolic and Stone Wool, enabling the required U-Values to be achieved meeting current building regulations.





LIGHTWEIGHT

Ideal for applying lightweight EWI systems or frames, our thin coat renders can be applied at a thickness of just 1.5mm to offer a lightweight yet durable finish.

VAPOUR PERMEABLE

It is vital with EWI systems, that moisture generated within the property can pass through the system, which is why all of our thin coat renders are vapour permeable to allow the building to breathe and reduce the risk of condensation.

FLEXIBLE

The flexible nature of our thin coat renders makes them ideal for substrates likely to have increased movement such as timber or steel frame structures.

UV STABLE

The pigments, resins, binders and aggregates in Wetherby Thin Coat Render finishes are highly UV resistant and retain their colour and stability, ensuring a long-lasting finish.

ANTI-ALGAE

Our thin coat renders have been specifically developed to combat the algae growth that has escalated due to the climate changes over recent years. Our products contain biocides and algicides that leach out over time to help prevent unsightly growth on a property.

WATER REPELLENCY

The addition of silicone to our thin coat renders increases the product's repellency, significantly reducing the dirt and environmental pollution that can adhere to the surface, while also improving the self-cleaning properties of the finish, which occur through rainfall on the silicone.





Silicone and Acrylic Render

The most widely specified finish for external wall insulation, Wetherby's silicone and acrylic renders are ideal for both refurbishment and new build projects across a wide range of sectors including residential, education, commercial and leisure.

With high performance qualities, the durable finishes boast a flexible anti-crack formulation, while UV resistant pigments allow large surface areas to be seamlessly rendered achieving perfect colour consistency. It's easy to see why they are such a popular choice.

Our silicone and acrylic renders can be tinted in more than 380 different NCS colour shades, as well as RAL or BS colour options. Each comes with a variety of textures offering a solution that can meet any desired look.

Often thought about as a simple finish for full elevations, silicone and acrylic renders can be used in a mix of complementary colours for bespoke panels or around windows to create real depth and interest to facades. The versatile finishes can also be effectively combined with other decorative finishes, such as brick slips, to create a visually striking exterior.







Four Seasons Premium Silicone Render

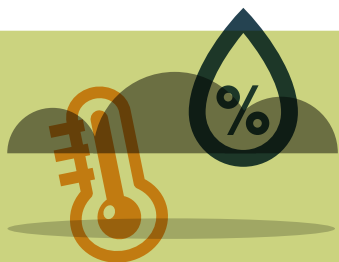
With the changeable UK climate often causing project delays, Wetherby Four Seasons Premium Silicone Render is the ideal solution to combat adverse weather conditions experienced in the UK.

Our Four Seasons render offers significantly improved rain resistance. This allows rain damage to be limited after application and during the curing process reducing the risk of wash-offs and minimising associated damage repair costs.

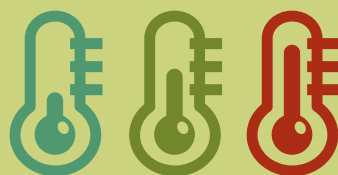
Four Seasons can be applied at an ambient and surface temperature of 1 to 30°C, and relative air humidity of up to 95%, increasing the application days available. As a result, it can be used an average of 55 days more per year, considerably increasing productivity during cold or wet periods throughout the year.

Available in more than 380 different NCS colour shades and a variety of textures, our Four Seasons Silicone can create any desired appearance, providing flexibility for architects.





Can be applied in
humidity up to 95%



Can be applied in
+1°C to 30°C



Rainproof
Technology



Mineral Render

Wetherby Mineral Render has been specially developed to combat the issues associated with applying external render in the adverse weather conditions often experienced in the UK.

It is widely acknowledged that thin coat external renders can experience wash-offs and damage following heavy rainfall or damp climates. If the conditions are too wet, humid or cold when the render is applied, drying times can be significantly extended. We provide the ideal solution with our Mineral Render and is predominantly being chosen for a wide variety of new build and refurbishment projects where delays due to poor weather conditions cannot be afforded.

Our Mineral Render works in a different way to silicone & acrylic renders, as it relies on a chemical reaction during the curing process and cures independently of humidity, unlike silicone and acrylic which set by air drying. Although providing a similar appearance to silicone and acrylic finishes, our Mineral Render dries considerably quicker and offers a more cost-effective solution.

Supplied pre-bagged, our Mineral Render only requires the addition of clean water before application. The standard off-white finish can be simply transformed with the application of a silicone paint or stain as a final top coat, which is available in more than 380 different colours. This allows an external façade to be created, that complements existing neighbouring properties or meets any specific design criteria.





**Reduced
Drying Times**





Silicone, Acrylic and Mineral Render Colour Options

Our highly engineered colour mixing technology allows us to produce hundreds of different colours to match any design criteria. While our standard colour chart offers 100 of the most popular shades to choose from, customers can also select shades from our more comprehensive colour swatch containing more than 380 shades based on the NCS colour system.

New build commercial projects can often demand exteriors that require the inclusion of corporate colours. In which case, we can tint our finishes, or supply paint for our Mineral Render, to British Standard, RAL and other manufacturers' colours, creating bespoke shades for any individual construction need.

We can also offer a colour matching service designed specifically for refurbishment and renovation projects. Developed to seek the closest match possible to existing substrates including brick, stone, timber or concrete allowing a seamless, professional finish to be achieved.



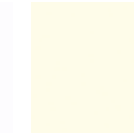
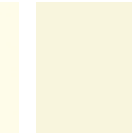
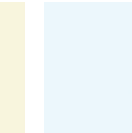
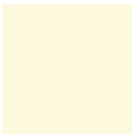
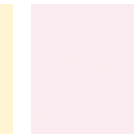
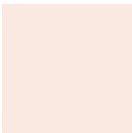
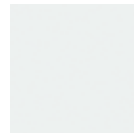
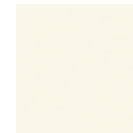
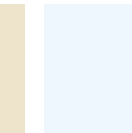
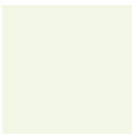
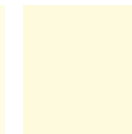
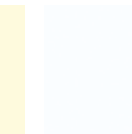
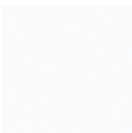
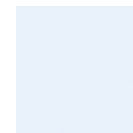
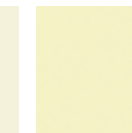
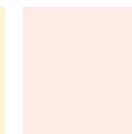
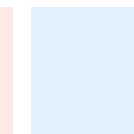
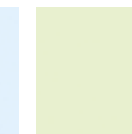




Silicone, Acrylic and Mineral Render 100 Standard Colours

We have a comprehensive range of 100 standard colours that are available for our Silicone, Four Seasons and Mineral Render Products.



						
White	0500N	0502G50Y	0502R50B	0502Y	0502Y50R	0505B20G
						
0505G90Y	0505Y10R	0505Y20R	0505Y30R	0505Y90R	0507B	0507Y40R
						
0507Y80R	0603R80B	0603Y40R	0804Y10R	0907R90B	0907Y30R	0510B10G
						
0510G30Y	0510R30B	0510Y10R	0510Y20R	0510Y30R	0510Y40R	1000N
						
1002Y50R	1005R50B	1005R80B	1005Y10R	1005Y30R	1010Y	1010Y20R
						
1015Y	1015Y20R	0515Y30R	0515Y90R	0515R90B	0520G30Y	0520G90Y





Images of colours have been reproduced as accurately as possible but there is likely to be a slight variation in colour. We always recommend physical samples are ordered prior to purchasing any materials.



Silicone and Acrylic Render Finish Options

We offer two ranges of silicone and acrylic render, both available in different grain sizes to allow the desired texture to be achieved and a variety of appearances to be created. Our 'K' offering is available in four standard grain sizes; 1mm, 1.5mm, 2mm and 3mm, while our 'R' range can be selected in either 1.5mm or 2mm.



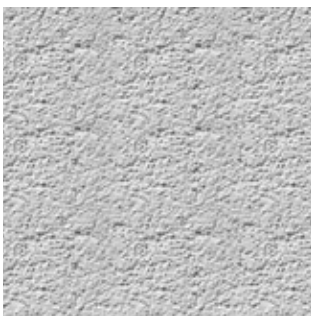
■ 1mm K



■ 1.5mm K



■ 2mm K



■ 3mm K



■ 2mm R

Images of textures have been reproduced as accurately as possible but there is likely to be a slight variation. We always recommend physical samples are ordered prior to purchasing any materials.

Render Protector

To enhance the performance of our thin coat render systems, we recommend applying Wetherby Render Protector.

A unique, highly water repellent coating, our Render Protector provides superior protection against algae, mould, pollution, staining and dirt.

This is an ideal solution for protecting facades located in polluted and damp areas or buildings situated in highly exposed areas. It's suitable for a wide range of substrate materials including silicone, acrylic, mineral render and polymer modified renders.

Render Protector is a low-film-build coating to produce outstanding protective properties:

- ✓ Improves weather resistance
- ✓ Reduces dirt pick up
- ✓ Translucent coating
- ✓ Protects against algae, mould and lichen



Example of beading



Algae on brick





Substrates

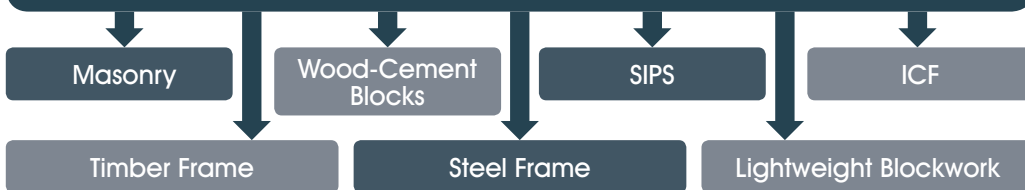
RENDER ONLY

For render only (direct to substrate) applications, our thin coat renders can be applied directly to the following popular substrates:



INSULATED RENDER SYSTEM

If insulation, or a render carrier board is used, our thin coat finishes can be applied to the following substrates:



*Alternative substrates may be used. Please contact our Technical Team for more information.

Insulants



Thermal Performance and U values

Insulation	Thickness (mm)	K Value
EPS	20-400mm+	0.038 W/mK
Enhanced EPS	20-400mm+	0.032 W/mK
Stone Wool	30-270mm+	0.036 W/mK
Phenolic	20-120mm+	0.020 W/mK*

More detailed information on our insulation materials can be found on our website at wbs-ltd.co.uk

*Insulants less than 50mm may have different thermal values.



Approvals & Certifications



BBA Certificate Number 09/4625 - Product Sheet 2 covers Enhanced EPS and Phenolic insulation and Silicone Render finish

BBA Certificate Number 15/5192 - Product Sheet 1 covers Enhanced and Standard EPS insulation with Silicone Render, Acrylic Render, Mineral Render, Mineral Render PLUS and Stone Render finishes



Wetherby Building Systems Ltd are certified with a fully integrated ISO management system for Quality Standard ISO 9001, Environmental Standard ISO 14001, and Health & Safety Standard ISO 45001 (Certificate No. 16512)



Full members of the National Insulation Association



INCA System Designer







Head Office

Wetherby Building Systems Limited
1 Kid Glove Road
Golborne Enterprise Park
Golborne
Greater Manchester
WA3 3GS

Technical Support: 0800 107 32 99
Samples: 0800 107 32 88
wbs-ltd.co.uk



Glasgow

62 Hydepark Street
Glasgow
Lanarkshire
G3 8BW
Tel: 0141 221 8115

Bridgend

Unit 17A
Brynmenyn Industrial Estate
Millers Avenue
Bridgend
CF32 9TD
Tel: 01656 720 422



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.

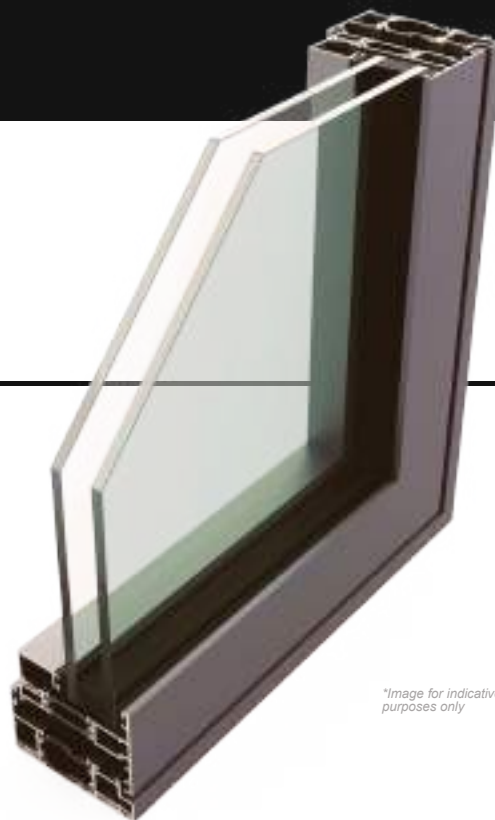
Construction

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.

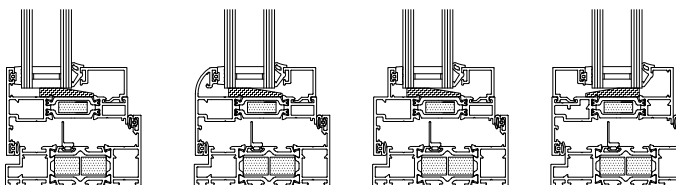
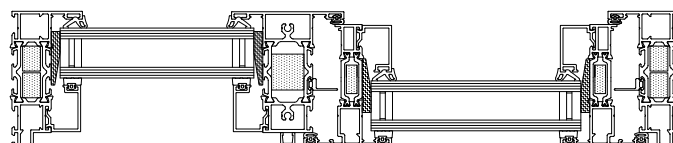


**Image for indicative purposes only*

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/m²K	
Residential CEN standard (Triple Glazed)	1.0 W/m²K	
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.



Secured by Design



Official Police Security Initiative



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 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 prior to manufacture. No responsibility for accuracy is accepted by Senior Architectural Systems. Always refer to the Technical Manual.





the window collection

by Senior Architectural Systems

A stylish and practical range of aluminium
windows that are the perfect fit for any home





delivering quality
fenestration solutions
since 1991





Tried, tested and trusted aluminium windows that perform as well as they look.

Designed to perform as great as they look, our attractive aluminium windows are the ideal alternative to timber and PVCu systems and the perfect addition to properties both old and new. Boasting sleek slim profile aluminium frames that maximise the sense of light and space, our windows are strong and secure, easy to maintain and can help improve energy-efficiency.

04 - 05 the Senior difference
06 - 07 products that perform
08 - 09 Ali VU windows
10 - 11 Ali VU windows: design options

12 - 13 PRe® windows
14 - 15 PRe® windows: design options
16 - 17 colour your thinking
18 - 19 finishing touches



the Senior difference

The largest privately owned fenestration systems house in the UK, delivering quality fenestration solutions since 1991.

Today we offer a flexible range of products that are ideally suited to meet the demands of both traditional and new build homes. Naturally strong and easy to maintain, it's easy to see why aluminium windows are a popular choice and a smart investment.

The strength of aluminium allows our windows to support much larger spans of glazing within a slim frame to give uninterrupted views and greater light diffusion.

Made from responsibly sourced aluminium and fully recyclable, our windows are thermally-efficient to help reduce heat loss from your home and save on energy bills.

We manufacture all our aluminium windows and complementary doors here in the UK to meet the highest safety and security standards.



Sustainable Manufacturing

Large Network of Support

UK Designed and Manufactured

Impressive Performance



**PROUD TO BE
UK OWNED**

"Our motto is to 'give our customers what they want, when they want it', which is why you'll find our range of high quality doors and windows is fully supported by a trusted and reliable network of installers across the UK."

Mark Wadsworth, Managing Director

products that
perform





Beautiful designs that are built to last.

Our attractive aluminium windows offer the best of both worlds, combining style with substance. Helping to perfectly frame views and bathe living spaces in natural light, our aluminium windows also offer exceptional acoustic and thermal performance.

- ✓ **Save money** on your heating bills
- ✓ Help **reduce external noise** pollution
- ✓ **Compliant with approved document L** of the Building Regulations to offer improved energy-efficiency
- ✓ Enjoy cosy and peaceful interiors **whatever the weather**
- ✓ Available in an almost **limitless range of colours** and finishes and **premium quality hardware** available
- ✓ **Tried, tested, and trusted solutions**

Solutions for every style.

Our patented PURE® and slimline Ali VU aluminium windows are available in a choice of opening styles and colour options, for a bespoke finish both inside and out. All our aluminium windows are fully compliant with the latest security regulations, including PAS 24, approved document Q of the Building Regulations and Secured by Design.



Ali VU windows



Thermally efficient, with a high-performance polyamide thermal break

Compatible with both double and triple glazing for extra thermal and acoustic performance. Fully security and weather tested

Fully compliant with Part L and Part Q

Hard-wearing, durable and easy to maintain



AliVU
WINDOW SYSTEMS

Ali VU - our stylish and flexible aluminium window system.

Sleeker than PVCu and easier to maintain than timber, the natural strength of aluminium means larger spans of glazing can be supported in much slimmer frames, giving uninterrupted views and copious amounts of natural light.

- Large spans of glazing can be specified, ideal for maximising the flow of daylight into a room
- Strong yet slim aluminum frames for fewer sightlines
- Available in a wide range of options including heritage, contemporary and slimline
- Available as a top hung, side hung or French casement
- Fully weather and security tested

Ali VU windows: design options

Versatile, affordable and built to last, our Ali VU aluminium top or side hung casement windows offer a range of different design features.

Our Ali VU aluminium windows can be used to create exciting new design schemes or to complement existing architectural features. The Ali VU system is available as a top or side hung casement window and benefits from a slim yet secure aluminium frame which allows you to create light and airy interiors with maximum peace of mind.



The perfect partner to our range of Ali aluminium doors



Available in an almost limitless range of colours and finishes



Durable and easy to maintain



Choice of square or chamfered beads



Radius, flat faced, stepped and flush faced vent options



Fully weather and security tested

AliVU
WINDOW SYSTEMS



Ali VU Casement

Traditional top-hung window

Also available in a side hung option

Casement Style:

This attractive style of window creates a clean and contemporary finish, with the window closing 'flush' to the outer frame.



Ali VU French Window
Elegant design for wider openings

French Window:
 Our Ali VU aluminium windows are also the perfect partner for period properties.

External outerframe options

Contemporary



Softline



Heritage



Flush Contemporary



Flush Softline



Flush Heritage



Contemporary



Ovolo



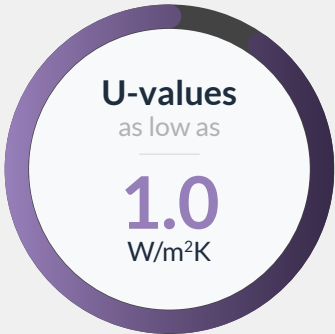
Window type options



Typical Sizes:
 Top Hung: 1400mm x 1400mm
 Side Hung: 950mm x 1400mm

Available in double or triple glazing up to 44mm
System dependent

Fully compliant with Part L and Part Q



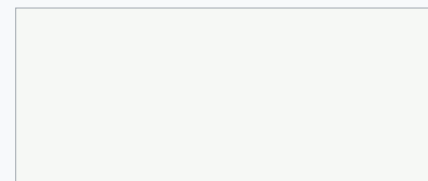


colour your thinking

Grey
7016



White
9910

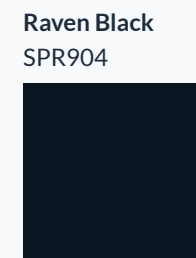
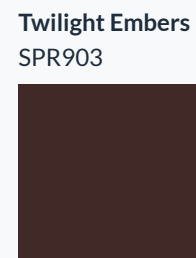
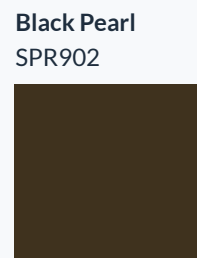
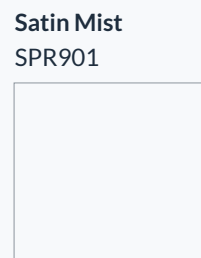
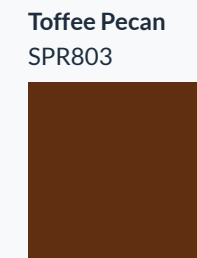
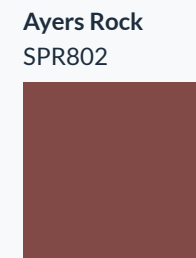
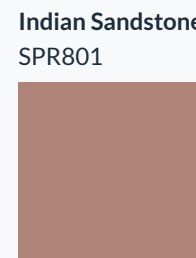
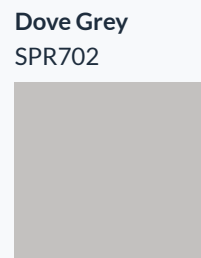
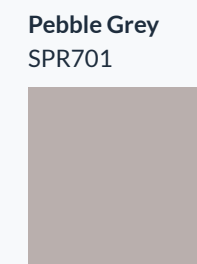
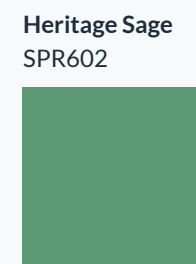
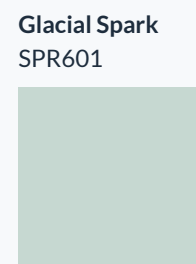
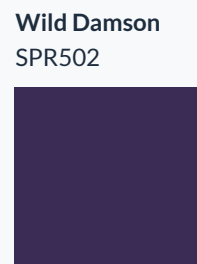
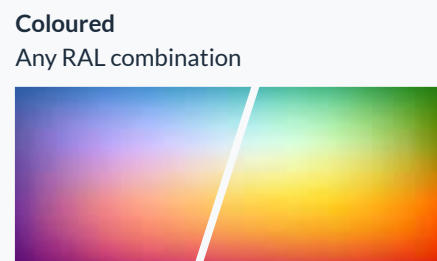
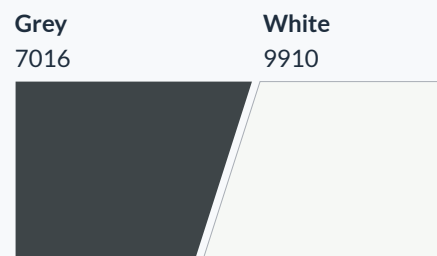
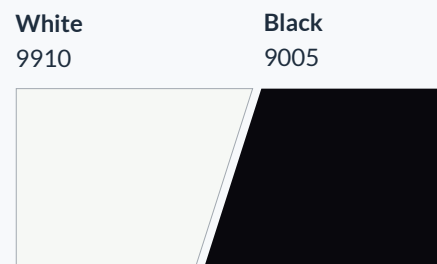


Black
9005



Standard Colours

Choose from two stock standard RAL colours or dual colour grey and white*. If you have a specific colour in mind, we can colour match** for a bespoke solution.



Single and Dual Colours

For single colour options, you can choose from a full range of standard RAL colours. You can even choose to have dual colour, with different colours on the exterior and interior surfaces, and specify a metallic, textured or anodised finish.

Signature Colours

To help you decide on your perfect design our exclusive Signature Collection brings together the most popular and on-trend colours and powder-coated paint finishes. From classic neutral tones to more vibrant shades, our inspirational palette has something for everyone.

Colours shown are representative only, please request a sample before ordering.

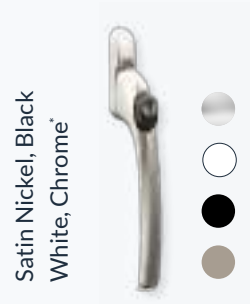
***Minimum order size may apply.*

finishing touches

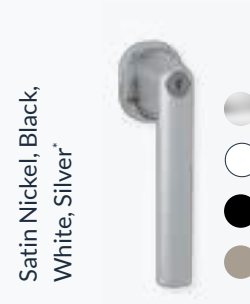




Inline Handle



Tilt Locking Handle



Standard Tilt & Turn Handle



Cranked Handle



Locking Handle



Heritage Handles



Finishing Options

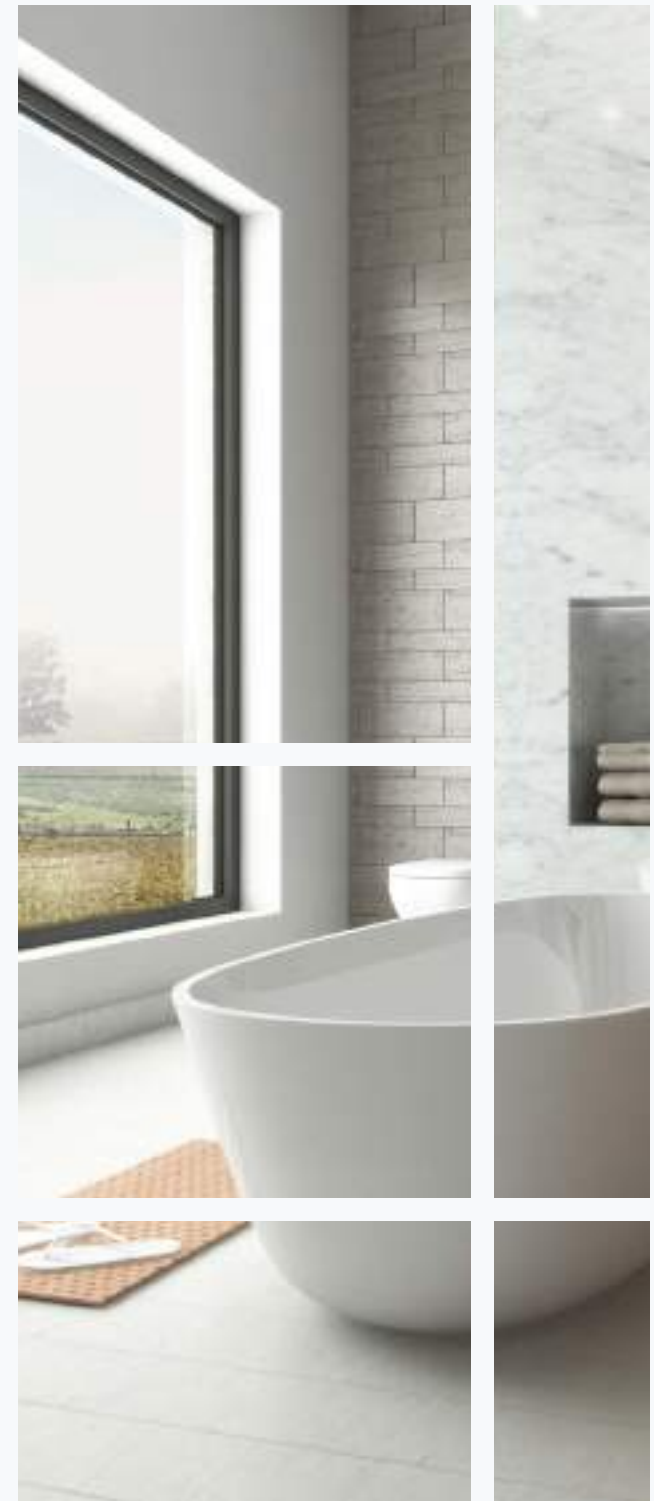
All our aluminium windows can be tailored to suit your individual tastes and unique requirements, with a wide range of safe, secure and stylish handles and vents to choose from.

Handle and Vent Options

From our standard black, white and satin nickel finishes to our contemporary stainless-steel handles, there are styles for every home and budget.



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UK OWNED



Ali FOLD Folding Sliding Door System

Technical Datasheet

Scope

The Ali FOLD folding sliding door system has been designed to meet current and future building regulations, with impressive thermal performances. Ali FOLD is an evolved generation of aluminium door system manufactured in the UK. They combine the long life and low maintenance of powder coated aluminium with a polyamide high performance thermal barrier. Ali FOLD folding sliding doors are capable of accepting glazing up to 48mm thick and is also available with a floating mullion option.

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 FOLD Folding Sliding door sections are available typically in three finishes.

- Polyester Powder Coating to BS EN 12206-1 Part 1 painted in house. Surface finished 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 FOLD is constructed using mitred corners, joined with crimped or mechanical cleats; alignment chevrons assist in clean, accurate mitres. A proprietary sealant is used on all metal joints in line with good practice.

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

Standard Duty

Max door leaf width	1000mm
Max door leaf height	2616mm
Max weight per door leaf	100kg

Heavy Duty

Max door leaf width	1300mm
Max door leaf height	2400mm
Max weight per door leaf	125kg

*Average U-values

CEN standard (Double Glazed)	1.4 W/m²K
CEN standard (Triple Glazed)	1.0 W/m²K

Glazing

Thickness	24mm - 48mm
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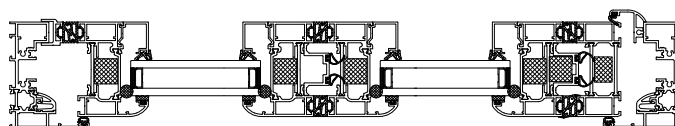
Testing

Security	PAS24 & SBD
**BS6375 -1	✓
BS6375 - 2	✓

**All calculations are based on CEN sized single doors 1230mm x 2180mm ±25% and double door 2000mm x 2180mm ±25%.*

*** Results may vary based on specification. Further details are available upon request.*

Test certifications available upon request.



Secured by Design



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 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 prior to manufacture. No responsibility for accuracy is accepted by Senior Architectural Systems. Always refer to the Technical Manual.



the door collection

by Senior Architectural Systems

An innovative range of aluminium doors
that perform as perfectly as they look



delivering quality
fenestration solutions
since 1991





Tried, tested and trusted aluminium doors that perform as well as they look.

Sleek, stylish and built to last, aluminium doors are the perfect way to accentuate and add value. The attractive aluminium frames and high performance glazing maximise the flow of natural light, giving picture perfect views and easy access to outside spaces as well as creating bright and airy interiors.

04 - 05 the Senior difference

06 - 07 stylish doors, impressive performance

08 - 09 all about Ali

10 - 11 the PRe® choice

12 - 13 folding sliding doors

14 - 15 folding sliding door configurations

16 - 17 sliding doors

18 - 19 sliding door configurations

20 - 21 colour your thinking

22 - 23 finishing touches



the Senior difference

The largest privately owned fenestration systems house in the UK, delivering quality fenestration solutions since 1991.

Today we offer a flexible range of products that are ideally suited to meet the demands of both traditional and new-build homes. Naturally strong and easy to maintain, it's easy to see why aluminium doors are a popular choice and a smart investment. Offering exceptional durability which outperforms traditional timber systems and providing a sleeker, more attractive finish than PVC-U, all of our aluminium doors and windows are manufactured here

in the UK to meet the highest safety and security standards. They are also fully recyclable and energy-efficient so can help reduce carbon footprint and heating bills too.

The strength of aluminium allows our doors to support much larger spans of glazing within a slim frame and this gives uninterrupted views and greater light diffusion.



Sustainable Manufacturing



Large Network of Support



UK Designed and Manufactured



Impressive Performance



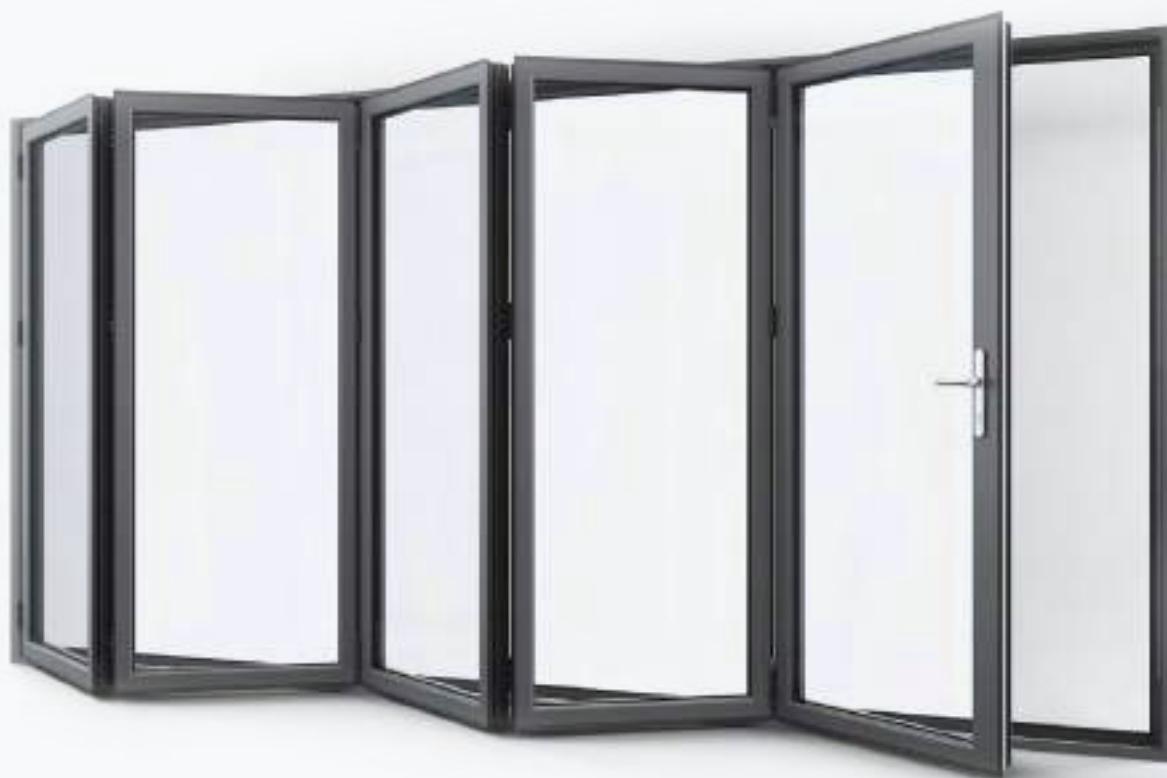
**PROUD TO BE
UK OWNED**

"Our motto is to 'give our customers what they want, when they want it', which is why you'll find our range of high quality doors and windows is fully supported by a trusted and reliable network of installers across the UK."

Mark Wadsworth, Managing Director

stylish doors,
impressive performance





Attractive designs combined with exceptional performance.

Our stylish aluminium doors have been carefully designed and developed to offer excellent thermal and acoustic performance, helping to create living spaces that can be enjoyed all year round.

- ✓ **Save money** on your heating bills
- ✓ Help **reduce external noise** pollution
- ✓ **Future-proof** your home by improving its energy-efficiency
- ✓ Enjoy cosy and peaceful interiors **whatever the weather**
- ✓ Available in an almost limitless range of **colours and finishes** with premium **quality hardware** available
- ✓ **Security comes as standard**

Doors designed for you.

We have a wide collection of aluminium bi-folding patio and sliding doors available in a choice of sizes, configurations, styles and colour options, for a bespoke finish both inside and out. All our aluminium doors are fully compliant with the latest security regulations, including PAS 24, approved document Q of the Building Regulations and Secured by Design.



all about Ali



Slimline version
available to give
maximum daylight and
uninterrupted views

Achieve glazing from
24mm to 48mm
Dependent on specific options

Fully
compliant
with **Part L**
and
Part Q

Featuring a polyamide thermal
barrier to give **low U-values** which
contribute to lower heating costs



Ali
DOOR SYSTEMS

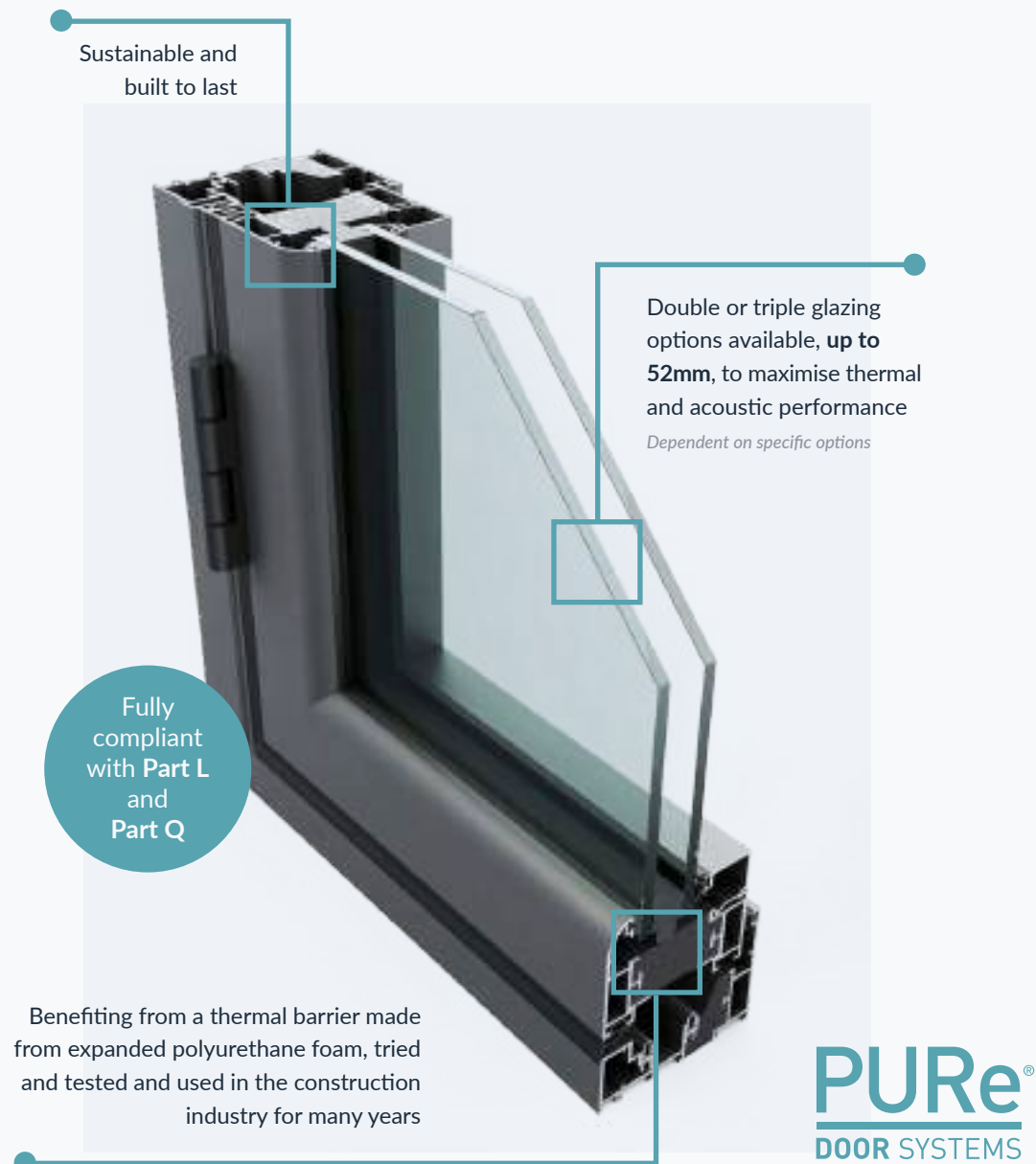
With attractive slimline frames, robust construction and excellent thermal efficiency, our Ali range of aluminium doors is perfectly suited to any residential setting.

Whether you want to maximise the flow of natural light or create a seamless link to gardens and other outdoor areas, our Ali doors are slim, stylish and super-efficient.

- Excellent thermal performance and low U-values
- Durable and easy to maintain
- Tested to PAS 24 and Secure by Design
- Low thresholds available
- Large door leaf openings
- A variety of options and configurations available for greater choice

the PURe® choice





The PURe[®] range takes our already high-performance aluminium doors to the next level, offering even greater energy-efficiency and protection from the elements.

For a hassle-free and cost-effective way of creating a warm and cosy interior whilst reducing heating costs, the energy-efficient PURe[®] range offers the ideal solution.

- Cutting-edge patented system
- First to the UK market to benefit from an enhanced thermal barrier manufactured from expanded polyurethane foam (PUR)
- Tried, tested, and trusted solution
- Exceeds the current requirements of Part L of the Building Regulations
- Impressive thermal performance resulting in ultra-low U-values
- Excellent durability and versatility
- Offering attractive slim sightlines and a choice of design options and configurations

folding sliding doors

We have styles to suit
any space or budget.

From the traditional elegance of single or double 'French doors' to the popular bi-folding or folding sliding styles that provide seamless access to the garden.

Stylish slim frame: the Ali door range offers the popular 'less frame more glass' design option with a heavy duty version available.

Enhanced performance option: the PURE® door range features patented technology to provide even greater thermal and weather performance.

Fully
compliant
with Part L
and
Part Q

Single Door
Open out or open in



Double Door
Open out or open in



Ali
DOOR SYSTEMS



Maximum door leaf width of 1300mm
Maximum door leaf height of 2616mm



Leaf weights up to 125kg



Available in double or triple glazing up to 48mm



Fully weather tested to BS6375-1, BS6375 -2, BS675-3 and security tested to PAS 24 and SBD

Folding Sliding Door
Open out or open in



U-values
as low as

1.0
W/m²K

PUR^e
DOOR SYSTEMS



Maximum door leaf width of 1000mm
Maximum door leaf height of 2616mm



Leaf weights up to 100kg



Available in double or triple glazing up to 48mm



Fully weather tested to BS6375-1, BS6375 -2,
BS675-3 and security tested to PAS 24 and SBD

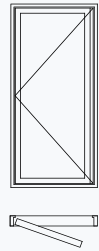
U-values
as low as

0.88
W/m²K

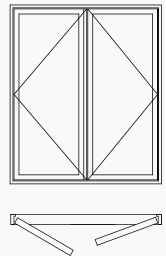
folding sliding door configurations



One pane
Single door
1L / 1R



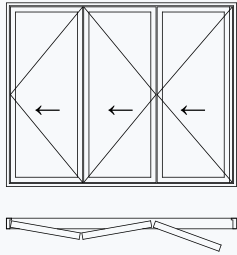
Two pane
Double doors
1L1R



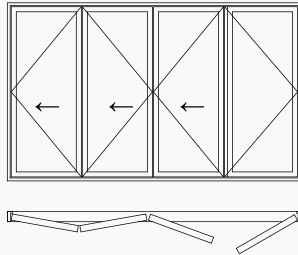
Note: these are just some of the available configurations.

Please contact your technical sales manager for more information.

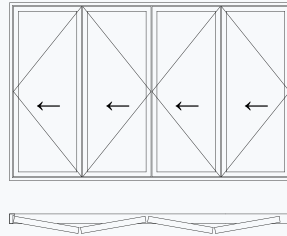
Three pane
Inclusive of single door
3L / 3R



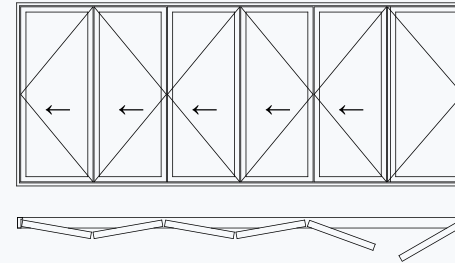
Four pane
Inclusive of double doors
3L1R / 1L3R



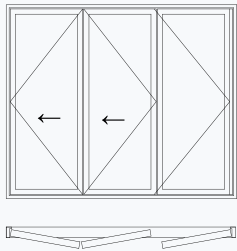
Four pane
Not accessible from outside
4L / 4R



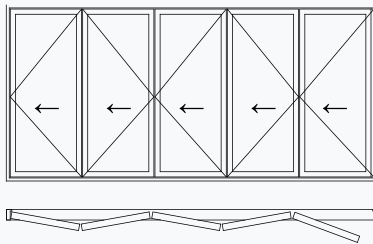
Six pane
Inclusive of double doors
5L1R / 1L5R



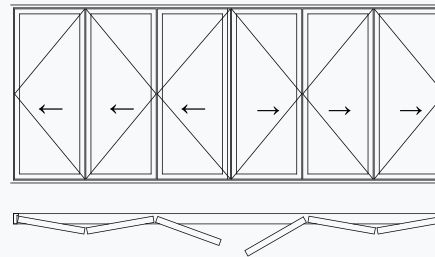
Three pane
Inclusive of single door
1L2R / 2L1R



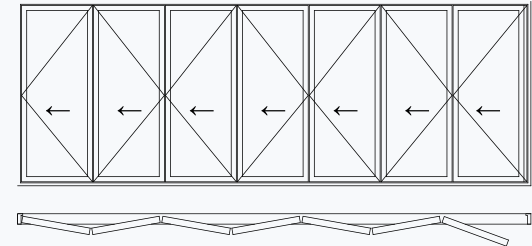
Five pane
Inclusive of single door
5L / 5R



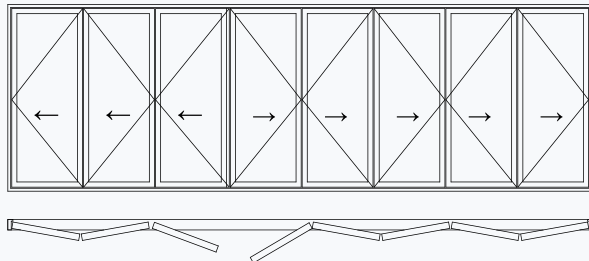
Six pane
Inclusive of double doors
3L3R



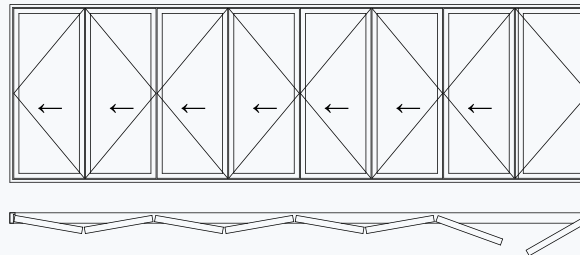
Seven pane
Inclusive of single door
7L / 7R



Eight pane
Inclusive of double doors
3L5R / 5L3R



Eight pane
Inclusive of double doors
7L1R / 1L7R

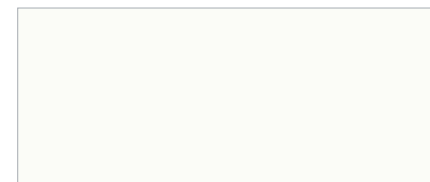


colour your thinking

Grey
7016



White
9910

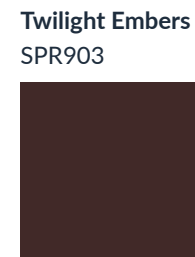
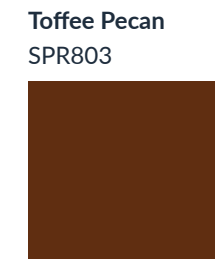
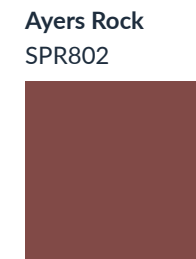
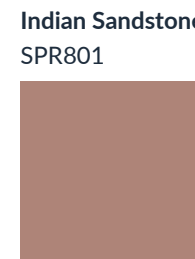
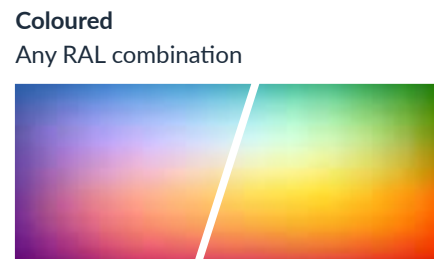
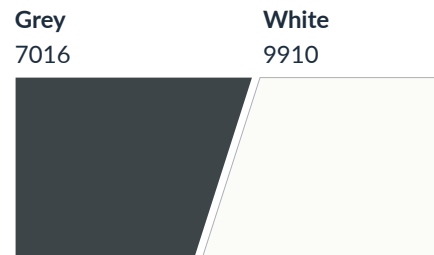
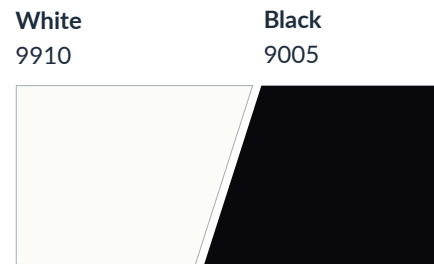


Black
9005



Standard Colours

Choose from two stock standard RAL colours or dual colour grey and white*. If you have a specific colour in mind, we can colour match** for a bespoke solution.



Dual Colours

You can even choose to have dual colour, with different colours on the exterior and interior surfaces, and specify a metallic, textured or anodised finish.

Signature Colours

To help you decide on your perfect design our exclusive Signature Collection brings together the most popular and on-trend colours and powder-coated paint finishes. From classic neutral tones to more vibrant shades, our inspirational palette has something for everyone.

*Colours shown are representative only, please request a sample before ordering.
*Stock/standard colours only available for folding and sliding doors. **Minimum order size may apply.*



finishing
touches



Satin Nickel, Black, White*

Folding Sliding Handle
Bi-fold handle



Intermediate Handle



Patio Handle



Sliding Handle



Stainless Steel*

Folding Sliding Handle**
Bi-fold handle



Intermediate Handle**



Patio Handle**



Bar Pull Handle



Finishing Options

All of our aluminium doors can be further accentuated with a choice of hardware, from handles to hinges, letter plates to locking systems. Guaranteed to last and easy to maintain, our comprehensive range of hardware choices come fully backed by a manufacturer warranty.

Handle Options

The small details can make a big difference, which is why we offer a choice of door handles in a variety of finishes, all of which complement our aluminium windows too.

Threshold Options

Designed to perfectly suit all homes and projects, our aluminium door range is also available in a flexible range of thresholds for easy access.

*Colours shown are representative only. Hinges available in Black or Satin Nickel.

**Part of the Blu range. Contact us for more information.



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SCW

Curtain Wall System

Technical Datasheet

Scope

The SCW curtain wall system has been designed with enhanced thermal performance to meet current building regulations. It is a box and plate, zone drained and pressure equalised system and offers a slim 50mm sightline, with a choice of 3 mullion and 4 transom depths. The system is capable of being fabricated into ladders for quick assembly on site and can accept a variety of glazing types. Other profiles can be incorporated giving flexibility of design.

Materials

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

Finishes

SCW curtain wall sections are available typically in three finishes.

- Polyester Powder Coating to BS EN 12206-1 Part 1 painted in house. Surface finished 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

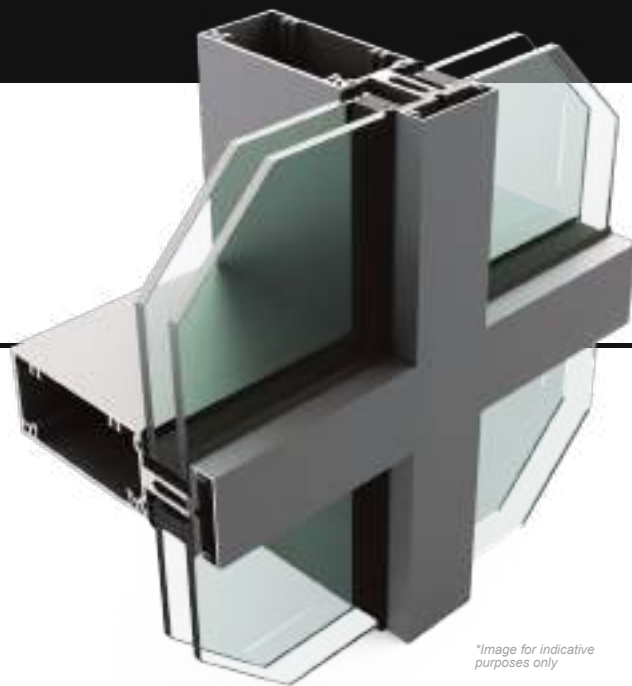
SCW framing is constructed using mechanical methods at butt joints, and assembled using stainless steel self-tapping screws into integral screw ports extruded into the body of the sections, directly through square cut adjoining sections. A proprietary sealant is used on all metal to metal joints and gasket to gasket joints during assembly in line with good practice.

Vertical sections are designed to run through, which enables individual panels to be made separately and assembled on site for large or multi-panel frames.

Sleeves are used for joint and sectional reinforcing or expansion joints on larger spans.

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*

*Average U-values

CEN standard (Double Glazed)

CEN standard (Triple Glazed)

Due to the variety of profiles, mullion spacing, glass and panel specifications on each project; a specific U-value calculation will be required. Please contact your Technical Sales Manager or Architectural Advisor for more information.

Glazing

Thickness

6mm - 28mm

Testing

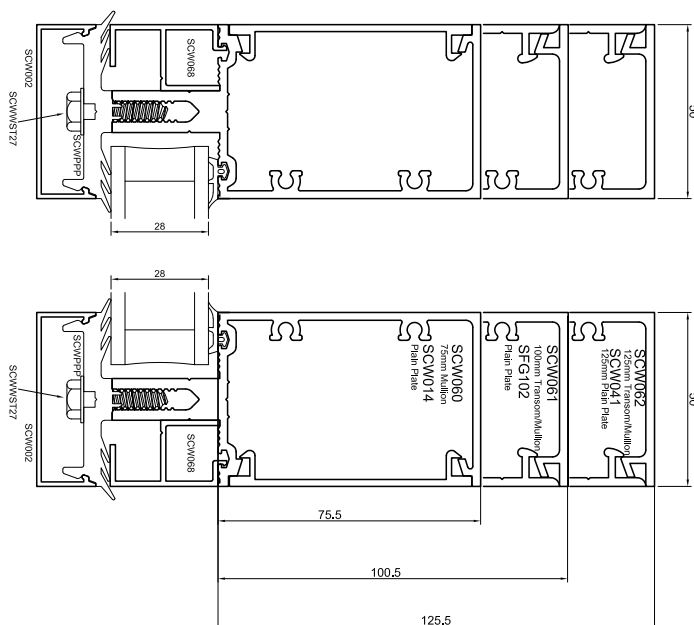
BS6375 -1

Air Permeability 600Pa

Water Tightness 600 Pa

Wind Resistance 2000Pa

Test certifications available upon request.



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 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 prior to manufacture. No responsibility for accuracy is accepted by Senior Architectural Systems. Always refer to the Technical Manual.





CURTAIN WALL SYSTEMS

High performance curtain wall solutions
for new and refurbished buildings



SENIOR ARCHITECTURAL SYSTEMS



MICHAEL MARKS BUILDING
M&S COMPANY ARCHIVE

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curtain wall systems that bring environments to life

Senior Architectural Systems' family of glazing solutions, offers a comprehensive range of fenestration products for commercial and residential applications.

Senior Architectural Systems supplies innovative curtain wall systems to both commercial and residential construction markets. From our dedicated ISO 9000 quality accredited service centres in England, Wales and Scotland, Senior prides itself on providing a responsive and personal customer service with local availability, and on forming long term, mutually profitable relationships with specifiers and fabricators.

All our products are designed with meticulous attention to detail and are available either in aluminium or a hybrid timber/aluminium composite. Our aluminium sections can be thermally broken and powder coated in virtually any colour in our in-house powder coating facility, one of the largest and most technically advanced in the country.

Independently-owned, the ongoing mission at Senior Architectural Systems is to offer high performance aluminium glazing systems to meet the needs of each project so that the fabricator is competitive and the client is totally confident.

The Senior curtain wall difference

Senior's curtain wall systems have been developed and tested to suit most environments, including low, medium and high rise applications. Commercial and retail applications, transport terminals, health service buildings and educational establishments are just a few of the markets in which Senior Architectural Systems has a well earned reputation for service, quality, delivery and technical support.

The systems comprise six suites, with sightlines between 50mm and 52mm* and various mullion and transom depths, including components which can be constructed using stick build and ladder frame methods. The systems are zone drained and pressure equalised, and the SF52 system can also be mullion drained.

As with all Senior Architectural products, our curtain wall systems are manufactured to exacting standards, enabling economy to be combined with strength, achieving many years of aesthetic, low-maintenance performance.

*SF52 system. See page eight for details.

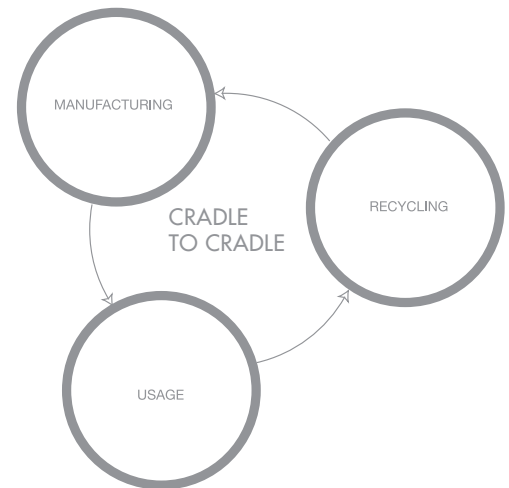




protecting your environment

After more than two decades in business we are well known for our down-to-earth cooperative approach. Fabricators, architects and contractors around the UK tell us that's why they choose to deal with Senior rather than anyone else.

As well as being totally committed to customer service, we actively work with a green agenda, demonstrating our commitment to the environment for now and future generations.



Sustainable systems

Our systems not only look good, but are sustainable too. Extended life spans, low maintenance, with maximum recyclability and outstanding thermal efficiency help to make the best use of the world's finite resources.

Responsible sourcing

Our materials are responsibly sourced from reliable suppliers who have good environmental credentials. And wherever possible we use local UK suppliers to reduce transport miles.

Aluminium systems are manufactured from recycled aluminium and timber is sourced from sustainable forests in main land Europe with full PEFC accreditation. For every tree felled four are planted to ensure no negative impact on the environment.

BREEAM

BREEAM (Building Research Establishment's Environmental Assessment Method) is the world's foremost environmental assessment method and rating system for new buildings, setting the standard for best practice in sustainable building design, construction and operation.

We help architects and specifiers to achieve up to 40 of the 119 BREEAM credits available for new buildings by careful specification of the fenestration material and glass choice from the Senior range of products. Enabling fabricators, installers and contractors to build more sustainable buildings for future generations.

Beyond Senior

Our environmental responsibilities don't end at the factory door. Our Fabricator training includes waste reduction programmes and training on product efficiency and insulation requirements in use, to make sure that current building regulations are met and exceeded where possible.

For specifiers we offer a RIBA approved CPD seminar on 'Designing Sustainable Fenestration Systems' which gives advice on how, with careful design and specification, a BREEAM excellent rating can be achieved.

A bright future

We don't rest on our laurels. Each year we review how we've done and set ourselves new environmental objectives and targets, so that we can continue to improve our environmental credentials year on year.

In addition we are investing heavily in innovative new products with improved U values with the aim of making the passive house a future reality.



Senior Aluminium Systems

SCW curtain wall system





SCW curtain wall has been designed to meet current building regulations. It is a semi-unitised, zone drained and pressure equalized system and offers a slim 50mm sightline, with a choice of three mullion and four transom depths.

The system is capable of being fabricated into ladders for quick assembly on site and of accepting glazing up to 34mm thick depending on weight. Project specific profiles can be incorporated giving flexibility of facade design.

SCW curtain wall is capable of spanning low to high, dependent on the manner of installation.

Construction

Constructed using mechanical methods at butt joints, assembly utilises stainless steel self-tapping screws into integral screw ports extruded into the body of the sections, directly through square cut adjoining component parts. Vertical sections are designed to run through which enables individual panels to be made separately and assembled on site for large or multi-panel frames.

Optional shear blocks are available for joint and sectional re-inforcing, expansion joints and larger spans, over 1200mm.

Finishes

SCW curtain wall sections are available typically in three finishes: polyester powder coating from our specialist state-of-the-art facilities, anodised in a range of colours in either satin or polished finish, or mill finish.

Environmental

When used on projects involved in a BREEAM assessment, or within the Code for the Sustainable Built Environment and the Code for Sustainable Homes (which therefore involves the Green Guide to specification), the SCW system can offer significant benefits.



Material information

All aluminium sections are extruded using Aluminium Alloy 6060 or 6063 T6 to BS EN 755 part 9 2008.

Polyamide thermal barriers are manufactured in accordance with PA66 GF25. Gaskets are manufactured in accordance with BS3734.

Independent testing

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

Weather tested to BS6375.

Technical support

For detailed information on weather ratings, U-values and any other technical matter, please contact our technical department:

**info@sasmail.co.uk or call,
+44 (0)1709 772 600**

helping you achieve **BREEAM[®] credits**

What is BREEAM?

BREEAM (Building Research Establishment's Environmental Assessment Method) is the world's foremost environmental assessment method and rating system for buildings, with 250,000 buildings with certified BREEAM assessment ratings and over a million registered for assessment since it was first launched in 1990. The system sets the standard for best practice in sustainable building design, construction and operation.

Ten categories for a sustainable building

A BREEAM assessment uses recognised measures of performance, set against established benchmarks, to evaluate a building's specification, design, construction and use.

Credits are awarded across ten categories based on the outcomes of the building assessed. The credits are then combined to provide a single score, achieving either a Pass, Good, Very Good, Excellent or Outstanding overall BREEAM rating.

Senior and BREEAM

Senior Architectural Systems product range has been developed with BREEAM at its centre. Our systems are proven to help you achieve a credible BREEAM rating. With many BREEAM rated projects already successfully utilising Senior products, we have a wealth of experience to assist the architect/designer in meeting their sustainability goals.



Categories	Credits Available	Senior Architectural products impact
Management	11	No
Health & Wellbeing	14	Yes
Energy	24	Yes
Transport	9	No
Water	9	No
Materials	13	Yes
Waste	7	Yes
Land Use & Ecology	10	No
Pollution	12	No
Innovation	10	Yes
Total	119	

HEAD OFFICE

Senior Architectural Systems Ltd, Eland Road, Denaby Main, Doncaster, South Yorkshire, DN12 4HA.
Tel: 01709 772 600. Fax: 01709 772 601. E-mail: info@sasmail.co.uk

BRANCHES

Scotland; Unit 4 Dunlop Court, Deans Industrial Estate SW, Livingston, West Lothian, EH54 8SL.
Tel: 01506 407 640. Fax: 01506 407 641.

South; Unit 4 Leeway Industrial Estate, Newport, South Wales, NP19 4SL.
Tel: 01633 277 880. Fax: 01633 277 121.

Senior Glass Systems Ltd, Lakeside House, Hopper Hill Road, Eastfield, Scarborough, YO11 3YS.
Tel: 01723 580 010. Fax: 01723 580 018. E-mail: ordering@seniorglass.co.uk

Visit our showroom at the Building Centre; Ground level, L4, Store Street, London, WC1E 7BT.

www.seniorarchitectural.co.uk



ALUMINIUM

HYBRID

GLASS



SENIOR ARCHITECTURAL SYSTEMS

Senior Architectural Systems is a major UK supplier of fenestration solutions, specialising in providing aluminium, timber and glass glazing systems to the highest standards. This brochure is intended to show what makes Senior's unique and how our products and services can make a difference to customers, clients, their projects and the environment.

Whilst every effort has been made to ensure the accuracy of this publication, no responsibility for content is taken by Senior Architectural Systems Ltd. We strongly recommend the specification for any given application is checked with Senior Architectural Systems before an order is placed. Senior Architectural Systems reserves the right to alter any of the specifications given in this publication without prior notice due to a process of continual development.