



# The complete answer to door systems

High performance door solutions for new and refurbished buildings



SENIOR **ALUMINIUM** SYSTEMS™



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# door systems that bring environments to life

Senior Aluminium Systems, part of Senior Architectural Systems' family of fenestration solutions, offers a comprehensive range of door products, from commercial to residential applications.

Senior supplies innovative door systems to both commercial and residential construction markets. From dedicated ISO 9001 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.

# the Senior door difference

All our door products are designed with meticulous attention to detail and are available either in aluminium, Hybrid timber/aluminium composite and fibreglass.

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

## *Options*

*Sliding/Folding  
Lift/Slide  
Tilt/Slide  
Single  
Double  
French  
Commercial/  
non-commercial  
Residential  
Open-in  
Open-out*

## *Features*

*Thermal Performance  
Slim Sightlines  
Long Warranties  
Automation Compatible  
BMS Friendly  
Low U-Values  
A-Rating  
Ergonomic Hardware  
Envelope/Interface  
Compatible*

## *Testing*

*Weather Tested  
Security Tested*



# material systems

Senior Architectural Systems offer specifiers and fabricators a wide range of stocked profiles which can be finished in-house to meet site requirements. The highest quality materials are chosen on the basis of responsible sourcing and high recyclability.

Our mission at Senior Aluminium Systems is to offer high performance aluminium glazing systems to meet the needs of every project.



SENIOR **ALUMINIUM** SYSTEMS™

The original and trusted high insulation timber and aluminium composite solution. Developed, manufactured and supplied in the UK.



SENIOR **HYBRID** SYSTEMS™

An innovative range of fibreglass windows and doors, offering impressively high performance and strength alongside class-leading acoustic ratings.



SENIOR **FIBRE** SYSTEMS™

Senior Glass Systems offer high performance glazing products to meet the needs of all new and refurbishment projects.



SENIOR **GLASS** SYSTEMS™



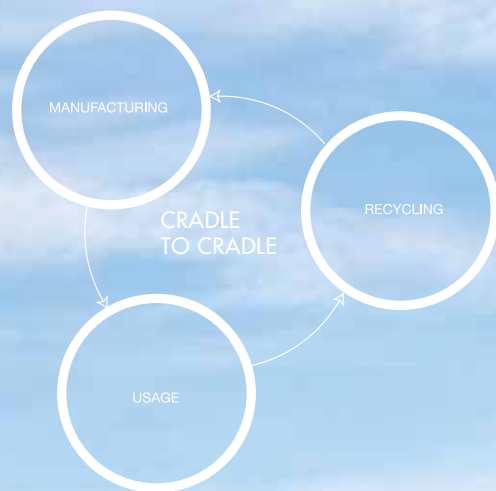
# taking the environment seriously

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.

We minimise the risk of any chemical releases during production and our systems in aluminium, wood, glass and fibreglass are perfect for producing low maintenance, energy efficient windows and façades that have a long life.

Our metal of choice is aluminium. It recycles perfectly without losing any of its properties. And best of all for our planet, we make sure that our suppliers of wood always plant more trees than we use.







# helping you achieve **BREEAM<sup>®</sup> 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.



**Management**  
**Health & Wellbeing**  
**Energy**  
**Transport**  
**Water**  
**Materials**  
**Waste**  
**Land Use & Ecology**  
 Pollution  
**Innovation**

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
<b>Total</b>	<b>119</b>	

# aluminium door systems



Senior Architectural Systems provides high performance aluminium door solutions designed for personnel access, emergency escape, automatic entrances and sliding doors.

Commercial, residential 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.



### Overview

Four systems are available, **SPW300** medium thermal performance, **SPW400** sliding folding door system, **SPW600/e** high/enhanced thermal performance, and **Hybrid** a high performance timber/aluminium solution.

Products that look and perform well are essential. Senior door systems are constructed using environmentally friendly aluminium and, depending on the system selected, can incorporate glazing ranging from a 4mm single pane to 56mm double glazed units. By varying the glazing specification and system/profile selection, high insulation and specific overall U-values can be achieved.

Also available are the SD and SPW500 door options, suitable for high usage applications where a heavy duty solution is desirable and with options for thermal and non-thermal performance as required.

### Flexibility

Senior entrance door systems are compatible with Senior SCW, SCW+, SMR800, SMR900 and the Hybrid range of curtain wall systems. They are available in single or dual colour finish. Dependent on the range specified, Senior entrance door systems are available with single, double, inward and outward opening options.

A full range of door hardware is available, including butt hinges, letter plate and multi-point locking for added security, including solutions to meet British security standards.

Senior entrance door systems are designed and focused on the UK market, seamlessly conforming to UK architecture and Building Regulations. We are able to react to any last minute design changes, giving you greater flexibility.

### Powder coating

With a dedicated colour coatings division, which is one of the UK's largest, Senior provides a single source solution. Featuring state-of-the-art vertical and horizontal lines and a full pre-treatment facility, Senior offers a cost-effective, highly efficient and time-sensitive turnaround service.



### Options

Senior aluminium doors are available in a wide selection of configurations.

Single. Double. Commercial.  
Residential. Open In/Out.  
Sliding/Folding. Single/Dual Colour.  
Anodised. Mill Finish.

### Environmental

The aluminium door range, when used on projects involved in a BREEAM assessment, or within the Code for a Sustainable Built Environment and the Code for Sustainable Homes, can offer significant benefits. For project specific assistance, please contact our specification team.

### 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:

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



aluminium door systems

/SPW300

/SPW600

/SPW600e

/SD

/SPW500



### **SPW300**

The SPW300 door is a 51mm thermally broken polyamide door system, capable of being manufactured in single, double, inward or outward opening and utilising low thresholds.

### **Configurations**

- / Single & Double Hinged Open In
- / Single & Double Hinged Open Out



### **SPW600 / SPW600e**

A 75mm thermally broken polyamide door system, capable of being manufactured in single, double, inward or outward opening and utilising low thresholds. Available in single or dual colour. SPW600e offers further thermal improvement achieving BFRC ratings.

### **Configurations**

- / Single & Double Hinged Open In
- / Single & Double Hinged Open Out



### **SD**

Designed to provide a high performance commercial door and framing solution capable of being manufactured in single, double and emergency door types and utilising low thresholds and a variety of options including radius anti-finger trap stiles. Proven over many years usage.

### **Configurations**

- / Single & Double Hinged Open In
- / Single & Double Hinged Open Out
- / Single & Double leaf, Single & Double action Pivot
- / Sliding
- / Sliding Folding Open In
- / Sliding Folding Open Out



### **SPW500**

A thermally broken polyamide framing system. Designed to provide a high performance commercial door and framing solution capable of being manufactured in single, double and emergency door types and utilising low thresholds and a variety of options including radius anti-finger trap stiles.

### **Configurations**

- / Single & Double leaf
- / Single & Double action Pivot
- / Sliding



### **SPW400**

SPW400 is a thermally broken polyamide door system with low thresholds and no intermediate stiles for slim sight lines. It is capable of two to eight multi-pane configurations, and available single or dual colour.

### **Configurations**

- / Sliding Folding Open In
- / Sliding Folding Open Out



# hybrid door systems



The original and trusted timber/aluminium composite solution. Manufactured and supplied in the UK, Hybrid is a high insulation composite timber and aluminium door range, complemented by a matching window and curtain wall system.

Hybrid combines the advantage of the long life and low maintenance of aluminium externally with the high insulation, environmentally focused benefits of responsibly sourced engineered timber internally.





### Overview

The Hybrid family consists of the Series 1 range of traditional composite doors, covering inward opening, outward opening, sliding/folding and in-line sliding.

Hybrid combines the advantage of the long life and low maintenance of aluminium externally with all the benefits of engineered timber internally. The product is designed and manufactured within the UK, and is fabricated by a fully trained network of UK companies. The range meets and exceeds all current standards, making it an ideal solution for both new-build and refurbishment projects where site measurement is required.

### Flexibility

Senior's entrance door systems are compatible with Senior aluminium products and the Hybrid range of curtain wall systems. They are available in single or dual colour finish. Dependent on the range specified, Senior entrance door systems are available with single, double, inward and outward opening options.

A full range of door hardware is available, including butt hinges, letter plate and multi-point locking for added security.

Senior entrance door systems are designed and focused on the UK market, seamlessly conforming to UK architecture and Building Regulations. We are able to react to any last minute design changes, giving you greater flexibility.

### Colours and finishes

Externally, choose from any RAL colour, to complement and bring out the best in any application. Internally, Hybrid can be specified in natural spruce, traditional oak or painted.



### Options

Senior Hybrid doors are available in a wide selection of configurations.

Single. Double/French. Open In/Out. Lift/Slide. Tilt/Slide. Sliding/Folding. Spruce/Oak/Painted Finish.

### Environmental

The Hybrid door range, when used on projects involved in a BREEAM assessment, or within the Code for a Sustainable Built Environment and the Code for Sustainable Homes, can offer significant benefits. For project specific assistance, please contact our specification team.

### 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:

[support@seniorarchitectural.co.uk](mailto:support@seniorarchitectural.co.uk)  
or call, +44 (0)1709 772 600



hybrid door systems

/SERIES1  
/SINGLE  
/DOUBLE  
/LIFT/  
/SLIDE



### Single

Low maintenance aluminium exterior, paired with high thermal performance PEFC certified timber internally. The range is fully compatible with the Senior Hybrid Series 3 curtain wall system.

### Options

- / Open In
- / Open Out
- / Spruce
- / Oak
- / Painted Finish Internally



### Double/French

Low maintenance aluminium exterior, paired with high thermal performance PEFC certified timber internally. The range is fully compatible with the Senior Hybrid Series 3 curtain wall system.

### Options

- / Open In
- / Open Out
- / Spruce
- / Oak
- / Painted Finish Internally



### Sliding/Folding

A contemporary styled sliding folding door giving the benefit of maximum light to any room. Low-maintenance aluminium and aesthetically pleasing timber offers a sustainable, thermally efficient and aspirational solution.

### Options

- / Open In
- / Open Out
- / Multiple Configurations
- / Spruce
- / Oak
- / Painted Finish Internally



### Lift/Slide

The Hybrid lift and slide door is an effortless solution for any environment. With all the benefits and compatibility of the Hybrid range it offers large panes maximising light and space.

### Options

- / Horizontal Sliding
- / Lockable at any point
- / Night Vent Facility
- / Spruce
- / Oak
- / Painted Finish Internally



### Tilt/Slide

The Hybrid tilt/turn door benefits from a tilt vent option which may be required as part of an opening doorway. Effortless gliding and large panes give maximum light to any application.

### Options

- / Horizontal Sliding
- / Night Vent Facility
- / Spruce
- / Oak
- / Painted Finish Internally



# glazing systems



Complementing Senior Architectural Systems' portfolio of high quality products, Senior Glass Systems contributes to the group's total fenestration solution by producing quality, high specification insulated glass units.



### Overview

Senior Glass Systems provide high performance glazing solutions for new and refurbished buildings.

The comprehensive range of products have been developed to suit most environments, including educational establishments, commercial and retail applications, transport terminals and health service buildings.

From its dedicated 40,000 sq.ft. base in Scarborough, Senior Glass Systems manufactures a broad range of thermally efficient glazing solutions using high performance products from leading suppliers.

The company aims to source materials from local suppliers wherever possible. A host of real-life energy saving initiatives, such as heating via warm air from the toughening furnace, and recycling waste glass and grey water, underlines Senior Glass Systems strong environmental stance.

### Technology

An in-house high-technology toughening furnace allows Senior Glass to toughen most glass types, sizes and thicknesses, ensuring complete control of the production process. Senior Glass Systems utilises Edgetech's Super Spacer® TriSeal™ systems to generate improved U-values, curtail noise transition and dramatically reduce seal failures.

### Products

Our wide range of products includes insulated vision glass units, non-vision panels and toggle glazed units, all of which can be manufactured from almost any glass available in the UK, from solar control to acoustic laminate. To meet the requirements of CE Marking, all glass supplied is in accordance with EN 1279-5 and EN 12150-2. Declarations of performance are available upon request.

### End-to-end solution

Backed by an investment in one of the most advanced and streamlined manufacturing plants in the UK, Senior Glass Systems provides a turnkey, time-sensitive, cost-effective and reliable solution to glazing requirements, from initial order through to delivery to site using its own fleet of vehicles.



### Products

Insulated Vision Glass Units. Toggle Glazed Units. Non-Vision Panels.

All products can be manufactured from almost any glass available in the UK, from solar control to acoustic laminate. Please contact us to discuss your particular requirement.

### Environmental

Senior Glass products, when used on projects involved in a BREEAM assessment, or within the Code for a Sustainable Built Environment and the Code for Sustainable Homes, can offer significant benefits. For project specific assistance, please contact our specification team.

### Independent testing

Senior Glass Systems is acutely conscious of quality, and is working towards BS EN ISO 9001, BS EN ISO 14001 and BS EN ISO 18001 certification. All glass is supplied in accordance with EN 1279-5 and EN 12150-2. Declarations of performance available upon request.

### Technical support

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

[ordering@seniorglass.co.uk](mailto:ordering@seniorglass.co.uk)  
or call, +44 (0)1723 580 010



Case study | Health

## Goscote Palliative Care Centre, Walsall

*Hybrid curtain wall  
Hybrid windows  
SPW600 doors*

NHS Walsall's recently completed £5.4 million, 12-bed Palliative Care Centre has been constructed around an envelope of Senior's Hybrid curtain wall and window system, and fully compatible SPW600 thermally broken entrance doors.

The engineered timber of Hybrid is a perfect match for the timber-clad bullnose pillar, which is a major design feature at the entrance to the building.





Case study | Education

## Campsmount Technology College Doncaster

*SPW600 windows  
SPW500 & SD doors  
SCW+ & SMR800 curtain wall*

Campsmount Technology College was the pilot project for Wates Construction's innovative Adapt Schools Solutions design approach. Following a fire in 2009, the 7500m<sup>2</sup> replacement new build cost £10.7 million and was designed with flexible learning in mind. Aluminium systems provided by Senior Architectural were chosen as the most suitable to meet

the needs of the project both in cost and performance. The visually arresting design features breakout and breakthrough teaching spaces and flexible classrooms, a large atrium and dance hall with state of the art springboard flooring. Outwood Academy Adwick and De Warenne Academy are also benefitting from the new design approach which reduces the procurement and build periods.





Visitor Reception  
Campsmount  
Reception  
All visitors report to Reception  
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Case study | Health

## Oaklands Care Village, Derbyshire

*Hybrid Series 3 curtain wall  
SCW curtain wall  
Hybrid glazed roof*

The partnership of Derbyshire County Council, Trident Housing Association and South Derbyshire District Council has come together to provide a £20 million development of 88 purpose-built one and two bedroom extra care apartments with 24/7 on site care, available to rent or buy, giving people the chance to live independently and stay together as a couple.

The design of the village incorporates a glazed roof and double height curved screen using Senior Architectural Systems' unique timber composite Hybrid Series 3 curtain wall system flooding the main community area with natural daylight. This community area boasts a health and well being zone, a cafe/bistro and bar open to residents and the public, a gym, shop and a hairdressing salon.





Case study | Commercial  
**Norfolk Showground  
Exhibition Centre  
Norwich**

*SPW300 & SPW600 windows  
SD doors  
SMR900 curtain wall*

Norfolk's largest indoor venue has been given a dramatic facelift, and is now providing 3,000m<sup>2</sup> exhibition and entertainment space for up to 4,000 people. The distinctive two-storey circular entrance foyer makes a stunning first impression with its 21st century design.

A new reception and complete redesign of the interior of the building gives a truly modern feel. Aluminium systems by Senior Architectural were chosen as the most suitable to give the required performance and appearance in such a heavily utilised environment.





Case study | Health  
**Pannelcroft Extra  
Care Village,  
Birmingham**

*SPW600 windows & doors  
SFG shopfront to internal street  
SMR900 curtain wall*

The Extra Care Charitable Trust has recently completed its latest scheme to provide 180 one and two bedroom apartments in Newtown, Birmingham. The development provides a wonderful environment for supportive living to the over 55's irrespective of their care needs.

Senior Architectural Systems was chosen as the preferred manufacturer for the many aluminium windows and doors throughout the complex, including flush glass systems used in the main atrium and communal areas through to Secure by Design windows and doors for the individual accommodation.



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Doncaster: 1996/026



Enhanced Security Window BS 7950  
**Certificate Number 068**  
Aluminium Windows BS 4873  
**Certificate Number 072**  
Enhanced Security Doorsets PAS 23 & 24  
**Certificate Number 088**



ALUMINIUM

HYBRID

FIBRE

GLASS



SENIOR ARCHITECTURAL SYSTEMS

Senior Architectural is a major UK supplier of fenestration solutions, specialising in providing aluminium, timber, glass and fibreglass 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.