



# NEXT-GENERATION DOOR AND WINDOW SYSTEMS

A range of aluminium doors and windows with impressive U-values and thermal performance

**PURE<sup>e</sup>** | DOORS & WINDOWS

**Ali** | DOORS & WINDOWS



**SENIOR** ARCHITECTURAL SYSTEMS





# an innovative range of doors and windows for any application

Senior supplies innovative door and window systems to both commercial and residential construction markets. From our 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.

Our team of experienced architectural advisers, together with our technical services department, are always available to advise on all issues relating to specification, from providing technical data and calculations to value engineering options, helping to take your project from concept to completion.

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DESIGNED TO  
BE DIFFERENT

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# after more than two decades in business we are known for the effectiveness of our approach. We are proud to be different

Since 1991, Senior Architectural Systems has grown to be one of the top fenestration companies in the UK and the UK's largest\* privately owned fenestration systems company.

Our innovative products are offered in a range of material options and are supported by a dedicated powder coating facility, allowing us to guarantee delivery of the complete package.

It is this combination of flexibility and stability that ensures we have the resources, infrastructure, facilities and staff to provide the support you expect, at the design stage, during construction and throughout the ongoing lifetime of the building.

**British based company - all our systems and products are fabricated and supplied from within the United Kingdom.**

Fully accredited systems which enhance any building façade.

**All products are manufactured / fabricated to exacting standards and quality is assured through constantly monitored systems and processes.**

All material processing carried out 'in-house' leading to highly efficient and time sensitive turnaround service.

**Full range of products utilising differing materials.**

Expert technical and specification support available.

**Consideration is always given to materials used in terms of recyclability and sustainability.**

Dedicated ISO 14001, ISO 18001 and ISO 9001 quality accredited service centres in England, Wales and Scotland.





DESIGNED TO  
BE DIFFERENT

# the Senior difference

All our products are designed with meticulous attention to detail.

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.

## *Doors*

*Sliding/Folding  
Lift/Slide  
Inline Sliding  
Single  
Double  
French  
Commercial and  
Non-commercial  
Residential  
Open-in  
Open-out*

## *Windows*

*Casement window  
top hung or side hung  
externally or  
internally glazed  
flat-faced  
Radius faced  
step faced  
bead options  
including feature  
'ovolo' style*

## *Features*

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

## *Testing*

*Weather Tested  
Security Tested  
Cycle &  
Operation Tested*



SENIOR ARCHITECTURAL SYSTEMS

The Senior difference



DESIGNED TO  
BE DIFFERENT

the Senior difference

# > AESTHETICS

With style, performance and a host of design options, the Senior door and window range has it all. Designed in the UK with elegance and practicality in mind, the result is a stunning array of doors suitable for all projects.

As for aesthetics, the Senior door range has it covered. From single to double, inline slide, folding and lift & slide options offering stunning unbroken views, narrow sightlines throughout and matching windows, we have everything to suit both new builds and refurbishments.

Add to that an almost endless choice of colours and finishes from our state of the art powder coating facility, we can guarantee a high quality finish and fast turnaround times.

You can even choose to have dual colour, with different colours on the interior and exterior surfaces.







the Senior difference

# > DESIGN

All our systems and products are designed and manufactured in the UK to exacting standards. The Senior door and window range uses premium quality materials sourced from reliable suppliers with strong environmental credentials to produce a structural integrity that outperforms its rivals.

**Weathertight:** Come rain, wind, hail or snow, Senior doors and windows will remain weathertight. Fully tested to BS6375 part 1, 2 & 3 Annex A, Senior products have been designed to keep the weather out and the warmth in.

**Secure By Design:** Senior doors and windows have been developed to meet the Secure by Design (SBD) standards, which measure the ability to resist forced entry. Independently tested by a UKAS accredited laboratory to PAS24 - 2012, Senior doors and windows have been awarded a Q-Mark certificate, confirming that they meet stringent security standards and are manufactured to a consistent quality. Security hardware is required.



1996/026





DESIGNED TO  
BE DIFFERENT



the Senior difference

# > -- INNOVATION

The Senior door and window range is the next generation of evolved products, designed to exceed current and meet future legislation.

## PUR<sup>e</sup> | DOORS & WINDOWS

The PUR<sup>e</sup> door and window range incorporates high insulation polyurethane foam (PUR) as an innovative thermal barrier - preventing the cold from getting in and the heat from getting out.

This ground breaking patented use of PUR as a thermal barrier means that PUR<sup>e</sup> doors and windows exceed current and will meet future Building Regulations. In fact PUR<sup>e</sup> aluminium doors and windows can give U-values as low as 0.93 W/m<sup>2</sup>K and 0.71 W/m<sup>2</sup>K, respectively, when calculated as a commercial CEN standard.

## Ali | DOORS & WINDOWS

The Ali range of windows and doors have a polyamide thermal break to give impressive efficiency.

Ali FOLD, folding sliding door, uses the same hardware, accessories, and gasketry as the PUR<sup>e</sup> FOLD, which means fabrication and installation couldn't be easier.

Ali VU and Aluminium Series 2 windows offer incredibly slim sightlines allowing the daylight to flood in, whilst keeping the elements out.

Ali FOLD doors can give U-values as low as 1.19 W/m<sup>2</sup>K, with Ali VU windows achieving 1.1 W/m<sup>2</sup>K and Series 2 achieving as low as 0.95 W/m<sup>2</sup>K.



the Senior difference

# > FABRICATION

Innovative features, easy to fabricate and install.

Senior doors and windows are easy to fabricate using existing tooling, and have been cleverly designed to be simple to adjust and install.

Folding sliding, single and double doors feature a fully adjustable hinge stile +/- 3mm, lock keep +/- 3mm and intermediate hinges -1mm for a fully flexible and easy installation. Our intermediate locks have been designed to be accessed quickly and easily without having to remove the door leaves to save you time on site.

Inline sliding and lift & slide doors have done away with complicated and time consuming drainage preparations. Our outerframe track joint system ensures that fabrication has never been easier and allows for multiple panel doors.

Our windows are designed to deliver performance without over-complication. Simple to fabricate, and with a range of punch tooling available they're as quick as they are effective.





the Senior difference

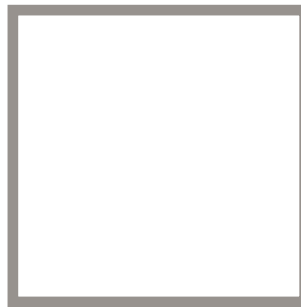
# > OPTIONS

Choose from two stock standard RAL colours and if you have a specific colour in mind, we can colour match for a bespoke solution.

You can even choose to have dual colour, with different colours on the exterior and interior surfaces.

Of course if you prefer an alternative look, we also supply all of our products with a metallic, textured or anodised finish.

With one of the largest and most technically advanced powder coating facilities in the UK, we can guarantee a high quality finish and fast turnaround times.



Standard stock colour  
**RAL 9910**



Standard stock colour  
**RAL 7016**



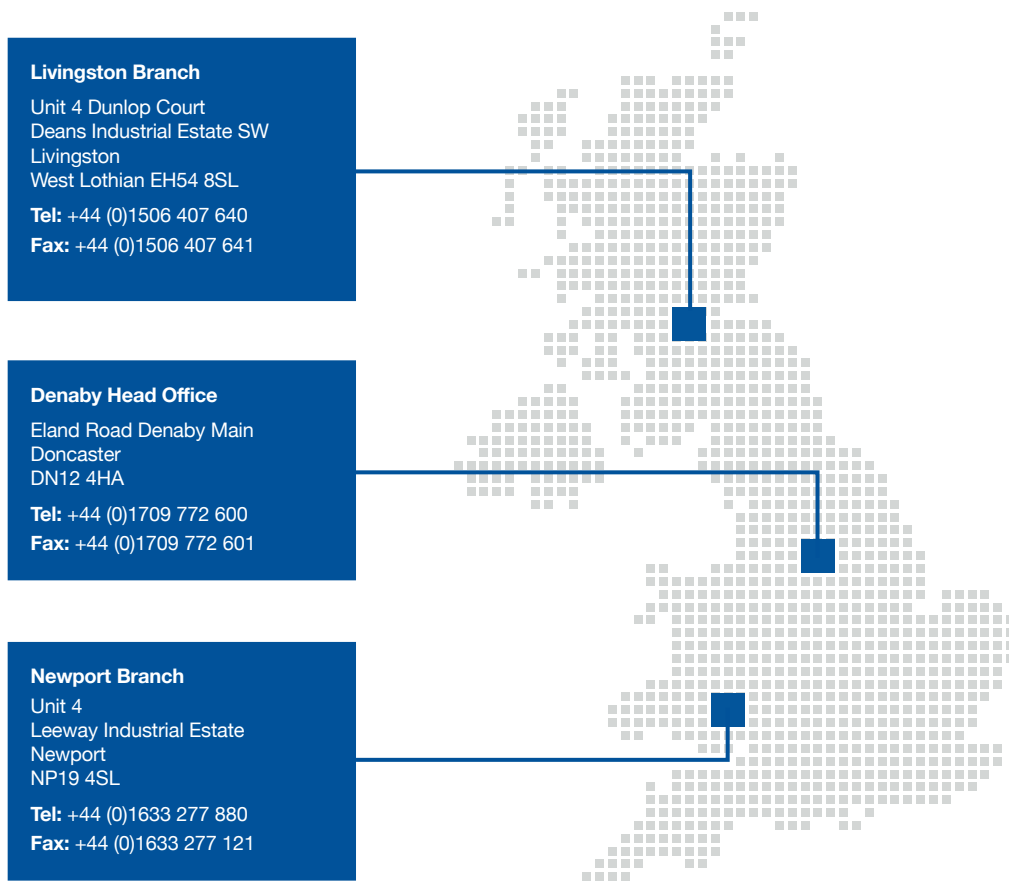




the Senior difference

## &gt; NETWORK

Strategically located service centres in Newport, Wales and Livingston, Scotland, are supported by our main headquarters in Denaby, Doncaster. Each location has its own comprehensive stock holding and established delivery network. This ensures that wherever you are in the UK you will receive the same reliable service.





# PUR<sup>e</sup> FOLD

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## DOOR SYSTEM

**AN INNOVATIVE RANGE OF STYLISH  
FOLDING SLIDING ALUMINIUM DOORS  
WITH UNBEATABLE THERMAL  
PERFORMANCE**



The PUR<sup>e</sup> FOLD door range has been designed to exceed current and meet future building regulations, with impressive U-values and thermal performances.



# > SYSTEMS

A revolutionary range of aluminium folding sliding doors with an innovative enhanced thermal barrier.

## PUR<sup>e</sup>® FOLD folding sliding door system

- Available in leaf sizes up to 1000mm x 2616mm
- Robust design to take leaf weights up to 100Kg
- Rebated low threshold option
- Intermediate weather seals for extra protection from the elements
- Further thermal enhancement available for added energy savings
- High tech roller design ensures years of trouble-free operation
- 40+ years life expectancy\*



**Folding Sliding Door**  
– Open out or open in

\*When installed and maintained in accordance with manufacturer's recommendations.

Typical\* sizes

Max Door Leaf Width	1000mm
Max Door Leaf Height	2616mm
Max Outerframe Width	6000mm
Max Outerframe Height	2700mm
Max Weight Per Door Leaf	100Kg

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

Glazing

Thickness	28mm - 48mm
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PUR<sup>e</sup>  
FOLD  
DOOR SYSTEM

AN INNOVATIVE RANGE OF STYLISH  
FOLDING SLIDING ALUMINIUM DOORS WITH  
UNBEATABLE THERMAL PERFORMANCE

# PUR<sup>e</sup> FOLD single/double door system

- Available in leaf sizes up to 1000mm x 2616mm
- Robust design to take leaf weights up to 100Kg
- Rebated low threshold option
- Single and double doors available in the same sections
- Intermediate weather seals for extra protection from the elements
- Further thermal enhancement available for added energy savings
- 40+ years life expectancy\*



Single Swing Door  
– Open out or open in



Double Swing Door  
– Open out or open in

\*When installed and maintained in accordance with manufacturer's recommendations.

Typical\* sizes

Max Door Leaf Width	1000mm
Max Door Leaf Height	2616mm
Max Single Door Width	1130mm
Max Double Door Width	2162mm
Max Outerframe Height	2700mm
Max Weight Per Door Leaf	100Kg

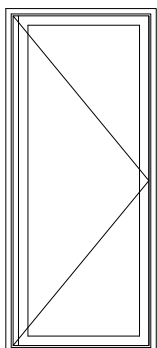
Glazing

Thickness	28mm - 48mm
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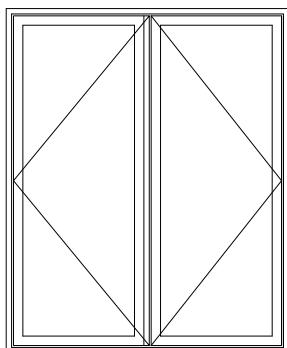
\*For guidance only – when exceeded please consult our technical department

# > CONFIGURATIONS

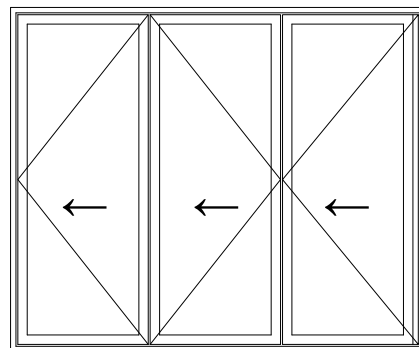
A wide range of configurations are available to meet any project specification or budget. All are available as open-in or open-out options.



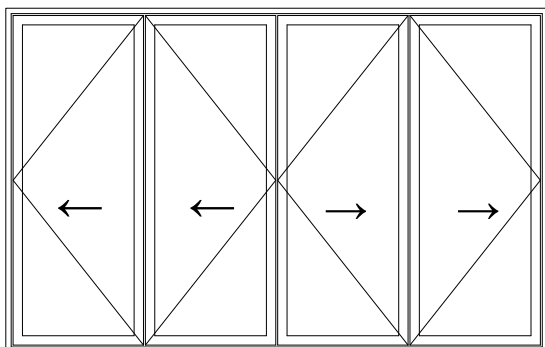
(1L)  
/ Single Door



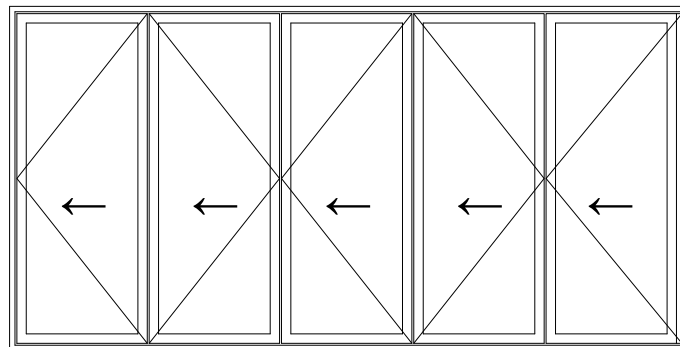
(1L1R)  
/ Double Door



(3L)  
/ 3no leaves folding / sliding left



(2L2R)  
/ 2no leaves folding / sliding left and 2no leaves folding / sliding right

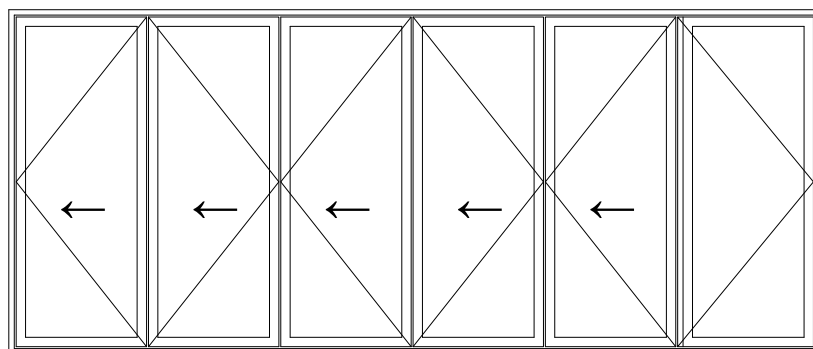


(5L)  
/ 5no leaves folding / sliding left. Inclusive of single door

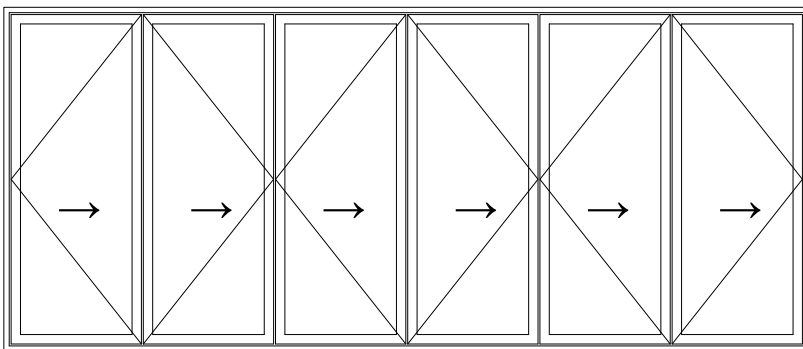
## Further configurations

This is just a selection of possible configurations, for more details on all available configurations please refer to our technical manual or contact our technical support team

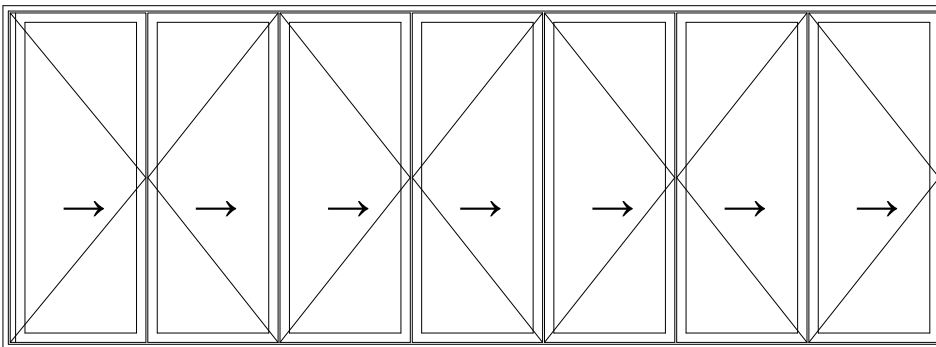
**support@sasmail.co.uk or  
call, +44 (0)1709 772600**



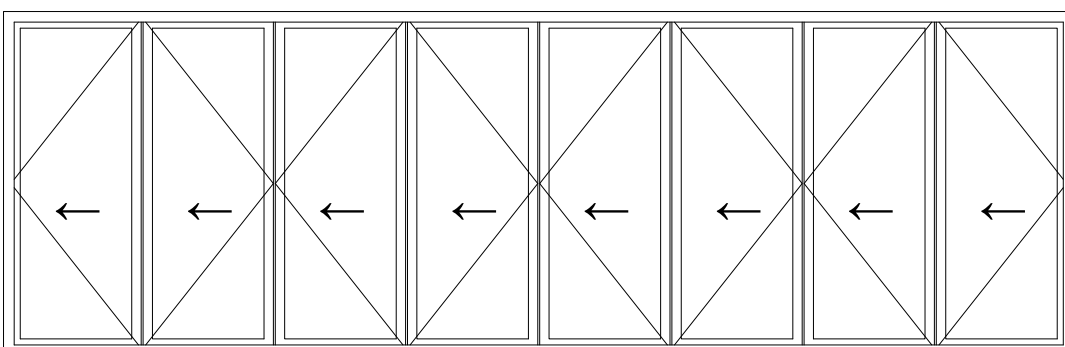
(5L1R)  
/ 6no leaves folding/sliding left. Inclusive of double doors



(6R)  
/ 6no leaves folding / sliding right



(7R)  
/ 7no leaves folding / sliding right. Inclusive of single door



(8L)  
/ 8no leaves folding / sliding left.

# > THRESHOLDS

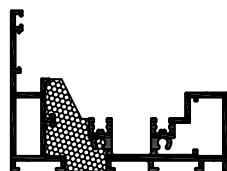
A number of threshold options are available to improve ease of access whilst still standing up to the elements.

Choose from a choice of threshold options including low thresholds for easy, uninterrupted access.

- Low threshold for accessibility
- Fully framed
- 190mm cill
- 150mm cill



SPW499653  
190mm Cill



PUR231230  
Outerframe



SPW65353X  
25mm Add-On





SENIOR ARCHITECTURAL SYSTEMS



# > PERFORMANCE

High thermal performance is at the core of our PUR<sup>e</sup>® door range. Quite literally.

PUR<sup>e</sup>® doors allow U-values well below 0.93 W/m<sup>2</sup>K to be achieved, giving significantly better thermal performance than other aluminium doors currently available on the market.

That means a substantial improvement in the building's carbon footprint and lower energy bills. The PUR<sup>e</sup>® door system is designed to meet the highest thermal standards.

The benefits that the specification of PUR<sup>e</sup>® doors can bring to a project are huge. PUR<sup>e</sup>® doors are competitively priced compared to less thermally efficient aluminium doors. So main contractors can significantly reduce their CO<sub>2</sub> calculations without increasing costs.

This means additional savings in the overall build cost can be made by reducing the need for features such as photovoltaic roof panels or expensive under floor insulation.



#### Weather Rating

Tested to BS6375-1, BS6375-2 and BS6375-3 Annex A

#### Security

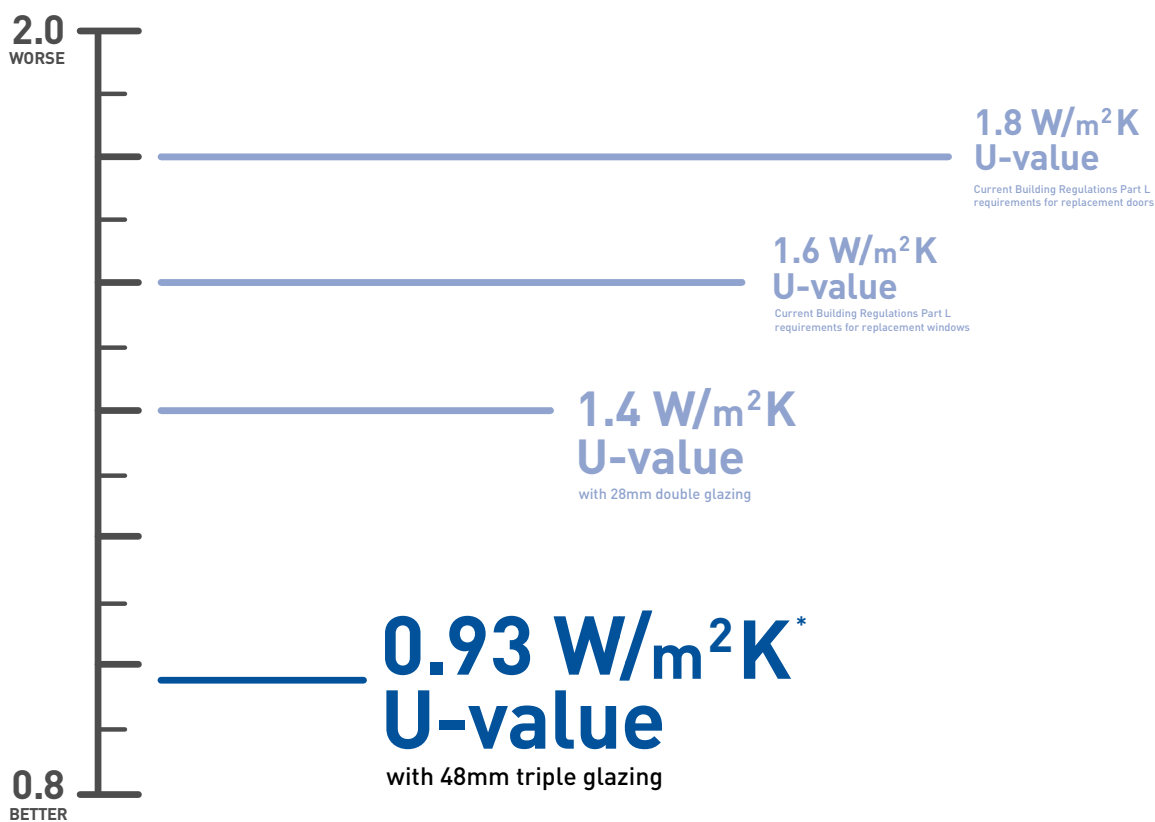
Security tested to PAS24: 2012, security hardware required.  
Q-Mark fully certified.

*For glazing specification please contact our technical department*

#### Technical support

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

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



#### Single/double door system / Average U-values

Single Door. CEN standard - Standard	1230 x 2180mm
28mm Double Glazed Unit	1.45 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.04 W/m <sup>2</sup> K

Single Door. CEN standard - Thermally Enhanced	1230 x 2180mm
28mm Double Glazed Unit	1.43 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.02 W/m <sup>2</sup> K

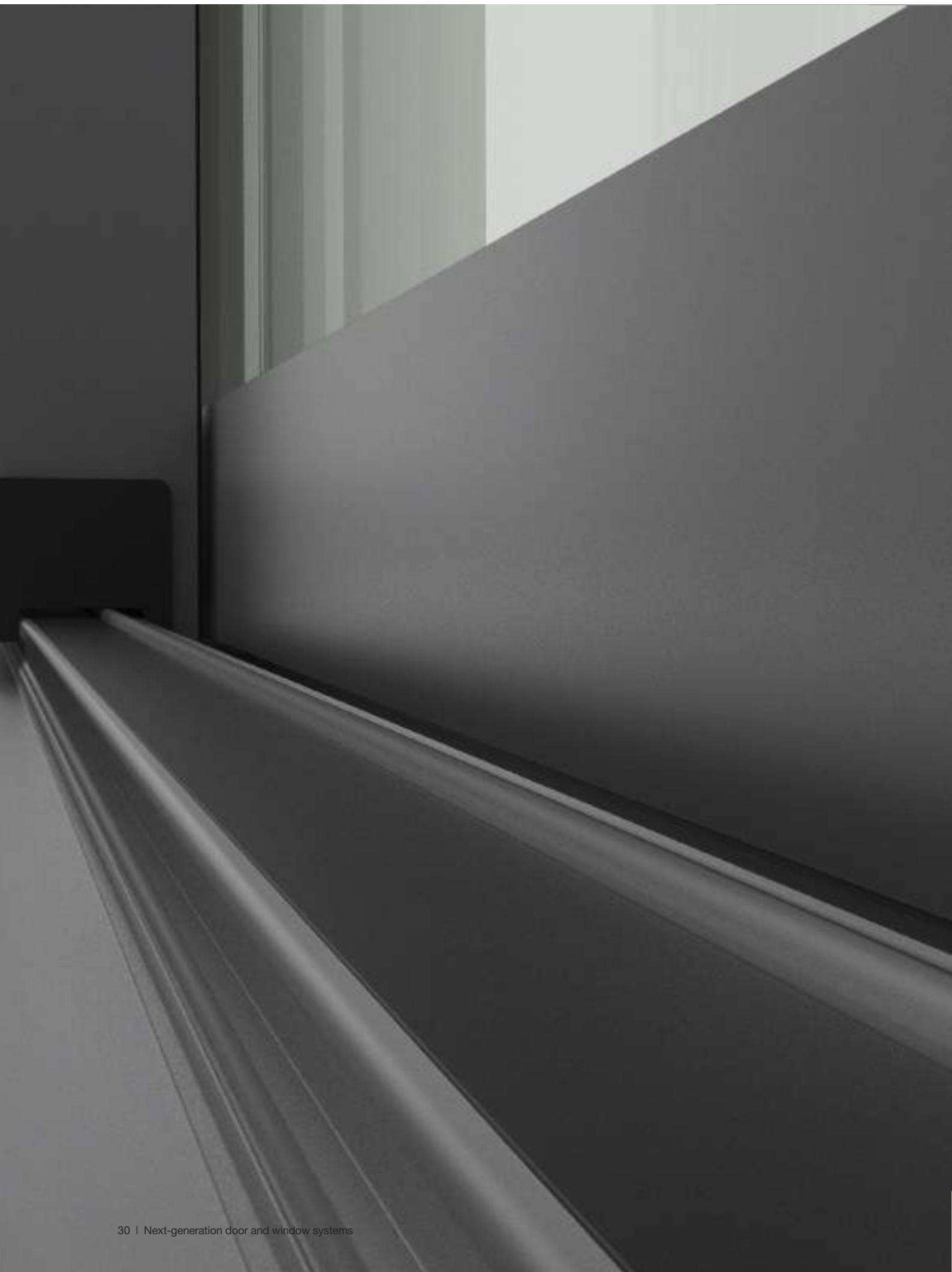
Double Door. CEN standard - Standard	2000 x 2180mm
28mm Double Glazed Unit	1.40 W/m <sup>2</sup> K
48mm Triple Glazed Unit	0.99 W/m <sup>2</sup> K

Double Door. CEN standard - Thermally Enhanced	2000 x 2180mm
28mm Double Glazed Unit	1.38 W/m <sup>2</sup> K
48mm Triple Glazed Unit	0.97 W/m <sup>2</sup> K

#### Folding sliding door system / Average U-values

CEN standard - Standard	2000 x 2180mm
28mm Double Glazed Unit	1.36 W/m <sup>2</sup> K
48mm Triple Glazed Unit	0.95 W/m <sup>2</sup> K

CEN standard - Thermally Enhanced	2000 x 2180mm
28mm Double Glazed Unit	1.33 W/m <sup>2</sup> K
48mm Triple Glazed Unit	0.93 W/m <sup>2</sup> K

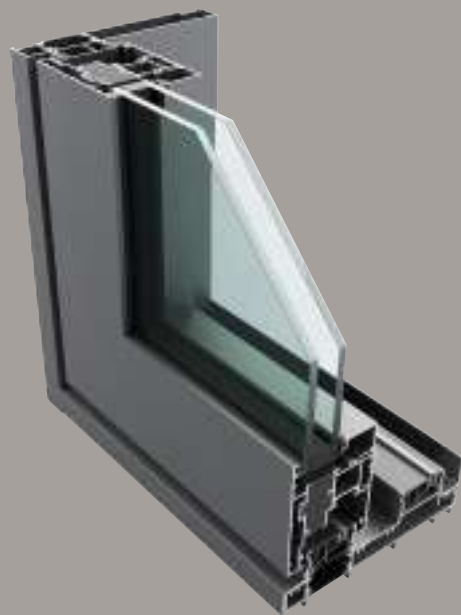


# PUR<sup>e</sup> SLIDE

DOOR SYSTEM

**AN INNOVATIVE RANGE OF STYLISH  
SLIDING ALUMINIUM DOORS WITH  
UNBEATABLE THERMAL  
PERFORMANCE**

> The PUR<sup>e</sup> SLIDE door range has been designed to exceed current and meet future building regulations, with impressive U-values and thermal performances.



# > SYSTEMS

A revolutionary range of aluminium sliding doors with an innovative enhanced thermal barrier.

## PUR<sup>e</sup>® SLIDE inline sliding door system

- Robust design to take leaf weights up to 160Kg
- Full flexibility with heights of up to 3000mm
- Unique jointing method of head and cill allows thermal breaks to always line through with the door, for added thermal efficiency
- Further thermal enhancement available for added energy savings
- Precision engineering to provide effortless glide
- 40+ years life expectancy\*



**Inline Sliding Door**  
- perfect as a residential patio door

\*When installed and maintained in accordance with manufacturer's recommendations.

Typical\* sizes

Max Door Leaf Width	3005mm
Max Door Leaf Height	2916mm
Max Outerframe Width	6000mm to 11938mm**
Max Outerframe Height	3000mm
Max Weight Per Door Leaf	160Kg

\*For guidance only – when exceeded please consult our technical department  
\*\*Dependant on configuration

Glazing

Thickness	28mm - 52mm
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Options

Single, double and triple track options available
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PUR<sup>e</sup>  
SLIDE  
DOOR SYSTEM

AN INNOVATIVE RANGE OF STYLISH SLIDING  
ALUMINIUM DOORS WITH UNBEATABLE  
THERMAL PERFORMANCE

# PUR<sup>e</sup> SLIDE lift & slide door system

- Robust design to take leaf weights up to 200Kg for standard lift & slide, and 300Kg for heavy duty lift & slide
- Full flexibility with heights of up to 3000mm
- Unique jointing method of head and cill allows thermal breaks to always line through with the door, for added thermal efficiency
- Further thermal enhancement available for added energy savings
- Precision engineering to provide effortless glide
- 40+ years life expectancy\*



**Lift & Slide Door**  
- with a heavy duty option for larger sizes

\*When installed and maintained in accordance with manufacturer's recommendations.

## Typical\* sizes

Max Door Leaf Width	3005mm
Max Door Leaf Height	2916mm
Max Outerframe Width	6000mm to 11938mm**
Max Outerframe Height	3000mm
Max Weight Per Door Leaf (Standard Duty)	200Kg
Max Weight Per Door Leaf (Heavy Duty)	300Kg

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

\*\*Dependant on configuration

## Glazing

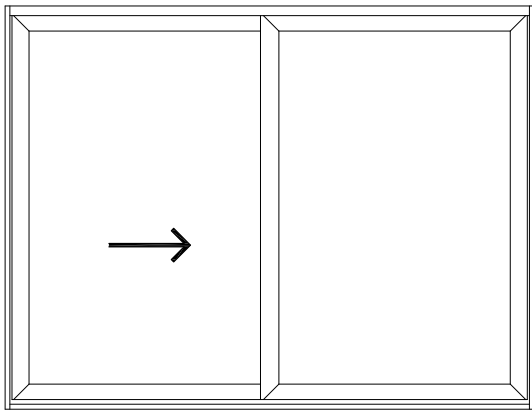
Thickness	28mm - 52mm
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## Options

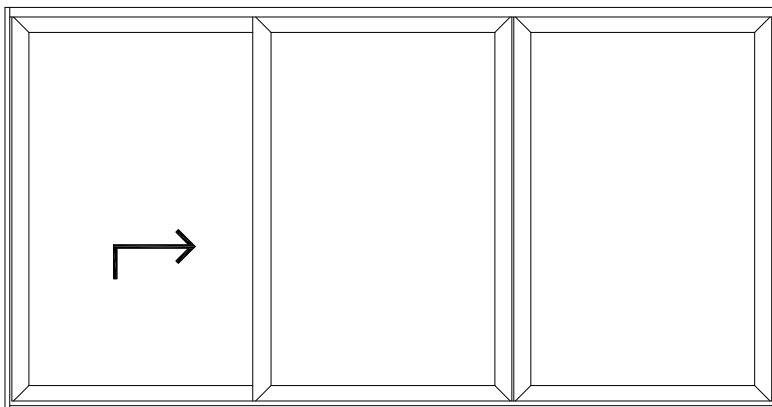
Single, double and triple track options available
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# > CONFIGURATIONS

A wide range of configurations are available to meet any project specification or budget. Available as lift & slide or inline sliding operations.



(XO)  
/ 2 pane inline slide

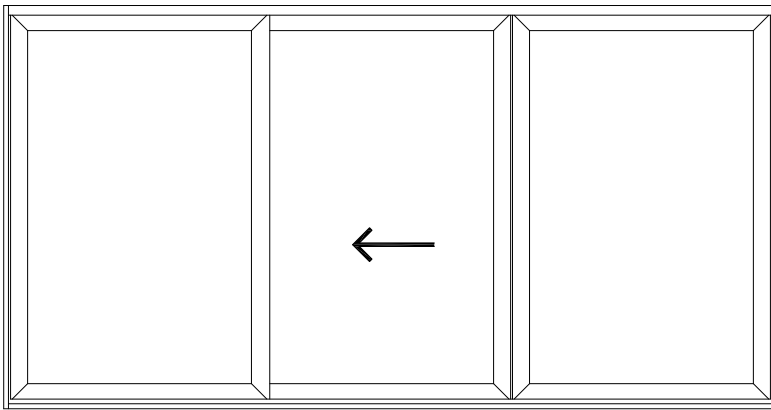


(XOO)  
/ 3 pane lift & slide

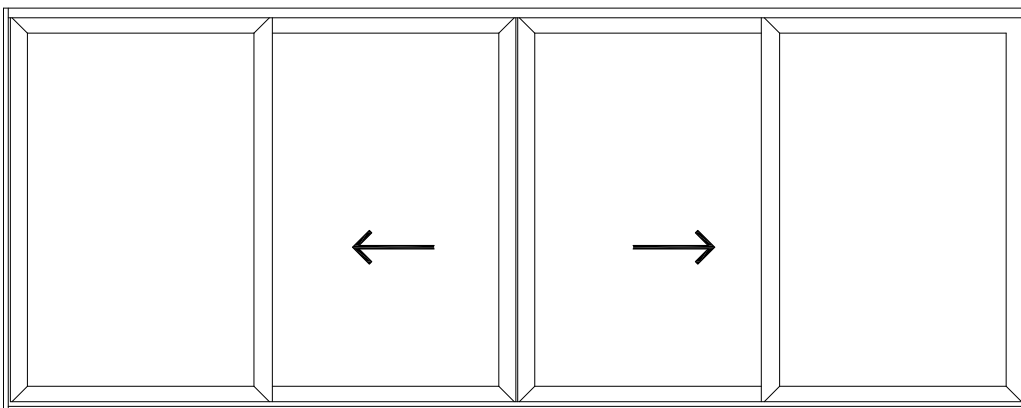
## Further configurations

This is just a selection of possible configurations, for more details on all available configurations please refer to our technical manual or contact our technical support team

**support@sasmail.co.uk or  
call, +44 (0)1709 772600**



(OXO)  
/ 3 pane inline sliding with central pane sliding

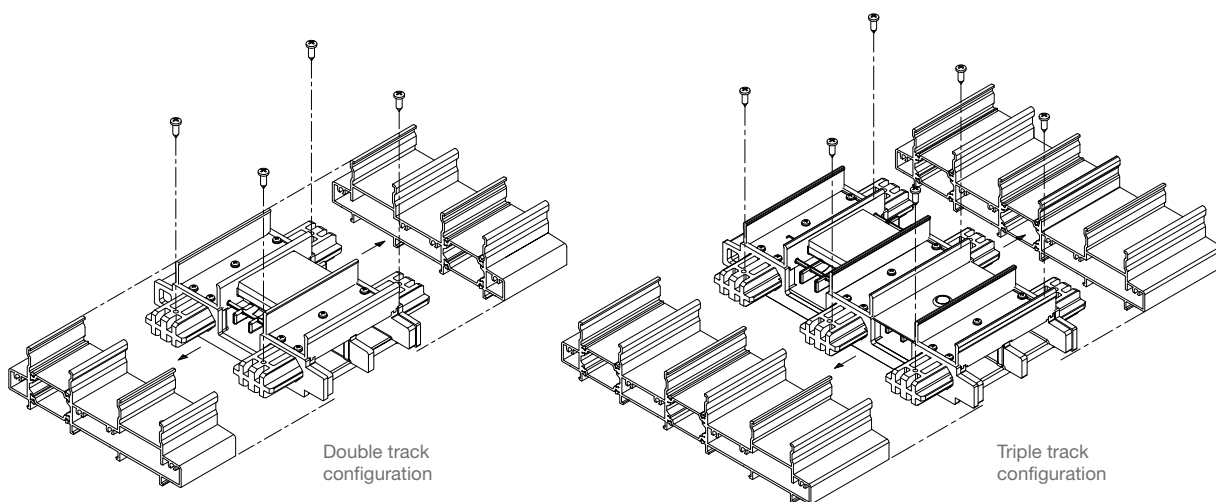


(OXXO)  
/ 4 pane inline sliding with both central panes sliding

# > THRESHOLDS

Allows ease of access whilst standing up to the elements.

The PRe® SLIDE features a unique threshold drainage coupler which allows quick and easy fabrication and removes the need for complex drainage preparation.



## TRIPLE TRACK OPTION

Now available, a new triple track option for both the PRe® Inline Sliding and Lift & Slide doors. Together with an unlimited outerframe width, this opens up a host of possibilities, including wider views, larger openings and beautiful full length sliding glass walls.

Please contact us for more information.



# > PERFORMANCE

High thermal performance is at the core of our PUR<sup>e</sup> door range. Quite literally.

PUR<sup>e</sup> doors allow U-values well below 1.11 W/m<sup>2</sup>K to be achieved, giving significantly better thermal performance than other aluminium doors currently available on the market.

That means a substantial improvement in the building's carbon footprint and lower energy bills. The PUR<sup>e</sup> door system is designed to meet the highest thermal standards.

The benefits that the specification of PUR<sup>e</sup> doors can bring to a project are huge. PUR<sup>e</sup> doors are competitively priced compared to less thermally efficient aluminium doors. So main contractors can significantly reduce their CO<sub>2</sub> calculations without increasing costs.

This means additional savings in the overall build cost can be made by reducing the need for features such as photovoltaic roof panels or expensive under floor insulation.



#### Weather Rating

Tested to BS6375-1, BS6375-2 and BS6375-3 Annex A

#### Security

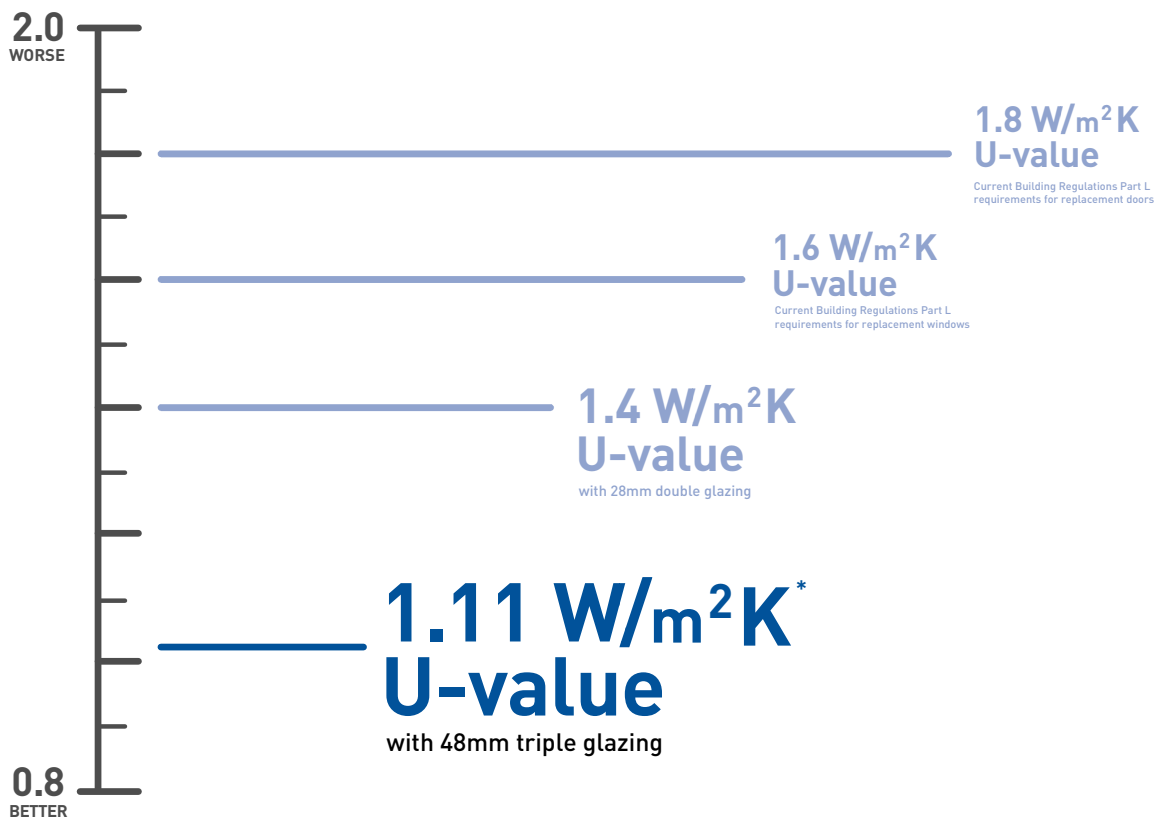
Security tested to PAS24: 2012, security hardware required.  
Q-Mark fully certified.

*For glazing specification please contact our technical department*

#### Technical support

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

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



#### Lift & slide door system / Average U-values

Standard Duty. CEN standard - Standard	2000 x 2180mm
28mm Double Glazed Unit	1.60 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.22 W/m <sup>2</sup> K

Standard Duty. CEN standard - Thermally Enhanced	2000 x 2180mm
28mm Double Glazed Unit	1.48 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.11 W/m <sup>2</sup> K

Heavy Duty. CEN standard - Standard	2000 x 2180mm
28mm Double Glazed Unit	1.67 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.31 W/m <sup>2</sup> K

Heavy Duty. CEN standard - Thermally Enhanced	2000 x 2180mm
28mm Double Glazed Unit	1.51 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.15 W/m <sup>2</sup> K

#### Inline slide door system / Average U-values

CEN standard - Standard	2000 x 2180mm
28mm Double Glazed Unit	1.60 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.22 W/m <sup>2</sup> K

CEN standard - Thermally Enhanced	2000 x 2180mm
28mm Double Glazed Unit	1.48 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.11 W/m <sup>2</sup> K



# AliFOLD

## FOLDING DOOR SYSTEMS

**AN INNOVATIVE RANGE OF STYLISH  
FOLDING SLIDING ALUMINIUM DOORS  
WITH IMPRESSIVE U-VALUES AND  
THERMAL PERFORMANCE**

> The Ali FOLD door range has been designed to exceed current and meet future Building Regulations, with impressive U-values and thermal performance. Available as a folding sliding and hinged door system.



# > SYSTEMS

A stylish, high performance range of aluminium folding sliding doors with a polyamide thermal break to give impressive thermal efficiency.

## Al FOLD folding sliding door system

- Available in leaf sizes up to 1000mm x 2616mm
- Robust design to take leaf weights up to 100Kg
- Rebated low threshold option
- Intermediate weather seals for extra protection from the elements
- Further thermal enhancement available for added energy savings
- High tech roller design ensures years of trouble-free operation
- 40+ years life expectancy\*



**Folding Sliding Door**  
– Open out or open in

\*When installed and maintained in accordance with manufacturer's recommendations.

Typical\* sizes

Max Door Leaf Width	1000mm
Max Door Leaf Height	2616mm
Max Outerframe Width	6000mm
Max Outerframe Height	2700mm
Max Weight Per Door Leaf	100Kg

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

Glazing

Thickness	28mm - 48mm
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# Ali FOLD

## single/double door system

- Available in leaf sizes up to 1000mm x 2616mm
- Robust design to take leaf weights up to 100Kg
- Rebated low threshold option
- Single and double doors available in the same sections
- Intermediate weather seals for extra protection from the elements
- Further thermal enhancement available for added energy savings
- 40+ years life expectancy\*



**Single Swing Door**  
– Open out or open in



**Double Swing Door**  
– Open out or open in

\*When installed and maintained in accordance with manufacturer's recommendations.

### Typical\* sizes

Max Door Leaf Width	1000mm
Max Door Leaf Height	2616mm
Max Single Door Width	1130mm
Max Double Door Width	2162mm
Max Outerframe Height	2700mm
Max Weight Per Door Leaf	100Kg

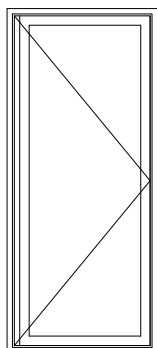
### Glazing

Thickness	28mm - 48mm
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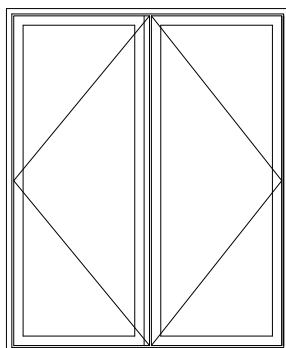
\*For guidance only – when exceeded please consult our technical department

# > CONFIGURATIONS

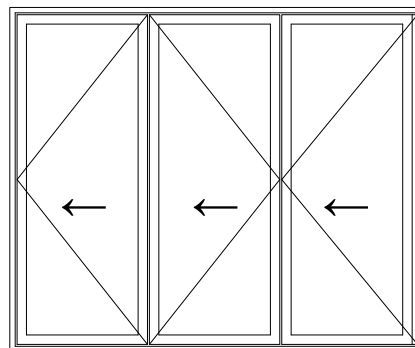
A wide range of configurations are available to meet any project specification or budget. All are available as open-in or open-out options.



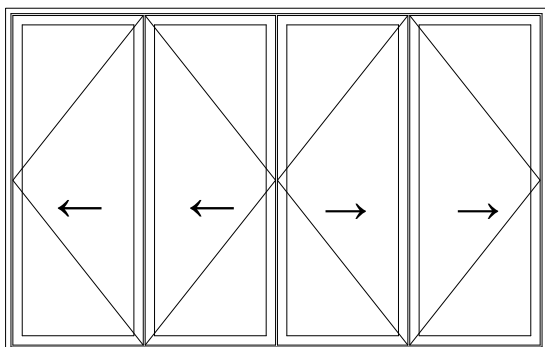
(1L)  
/ Single Door



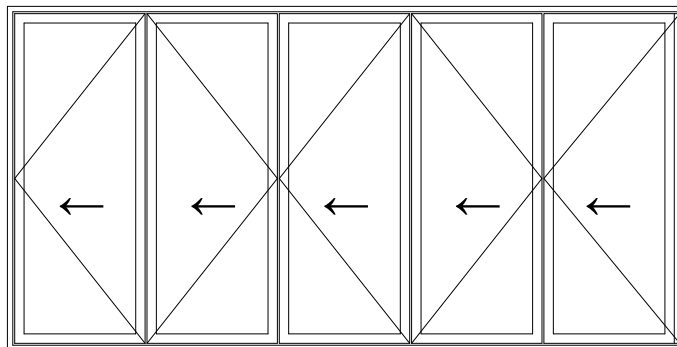
(1L1R)  
/ Double Door



(3L)  
/ 3no leaves folding / sliding left



(2L2R)  
/ 2no leaves folding / sliding left and 2no leaves folding / sliding right

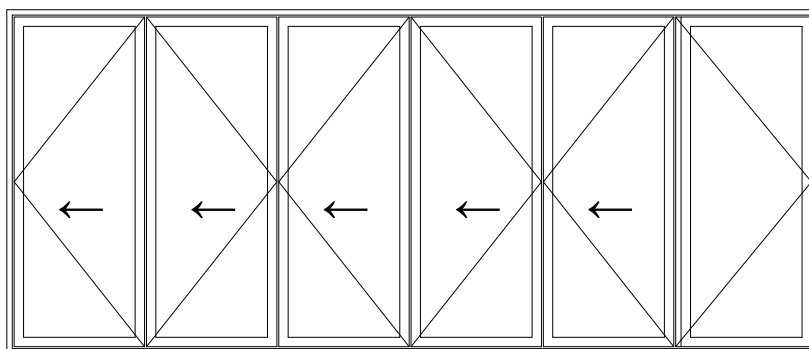


(5L)  
/ 5no leaves folding / sliding left. Inclusive of single door

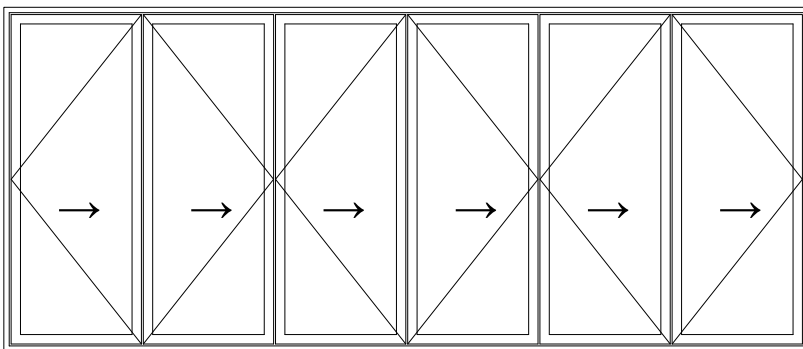
## Further configurations

This is just a selection of possible configurations, for more details on all available configurations please refer to our technical manual or contact our technical support team

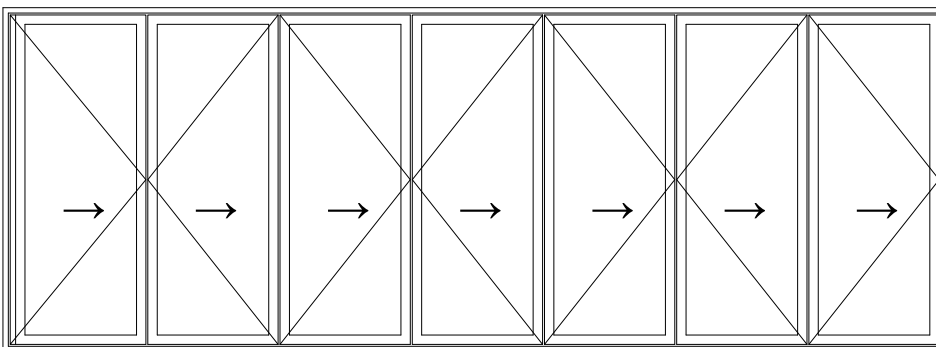
**support@sasmail.co.uk or  
call, +44 (0)1709 772600**



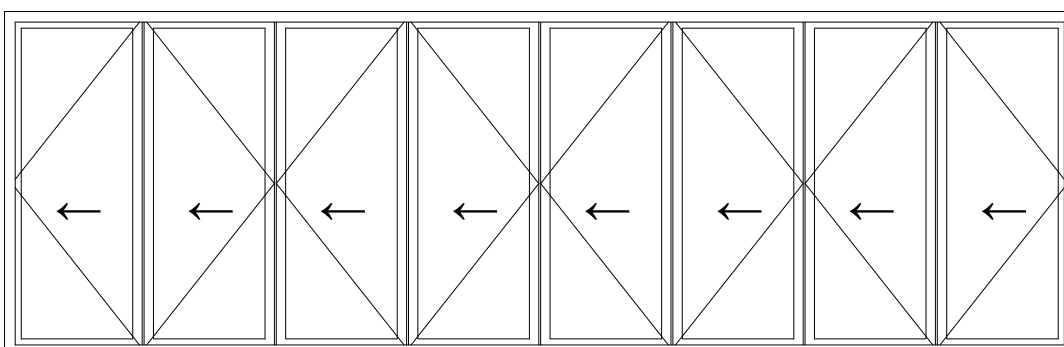
(5L1R)  
/ 6no leaves folding/sliding left. Inclusive of double doors



(6R)  
/ 6no leaves folding / sliding right



(7R)  
/ 7no leaves folding / sliding right. Inclusive of single door



(8L)  
/ 8no leaves folding / sliding left.

# > THRESHOLDS

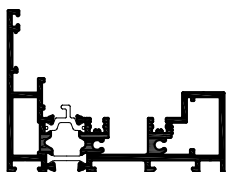
A number of threshold options are available to improve ease of access whilst still standing up to the elements.

Choose from a choice of threshold options including low thresholds for easy, uninterrupted access.

- Low threshold for accessibility
- Fully framed
- 190mm cill
- 150mm cill



SPW499653  
190mm Cill



SPW231230  
Outerframe

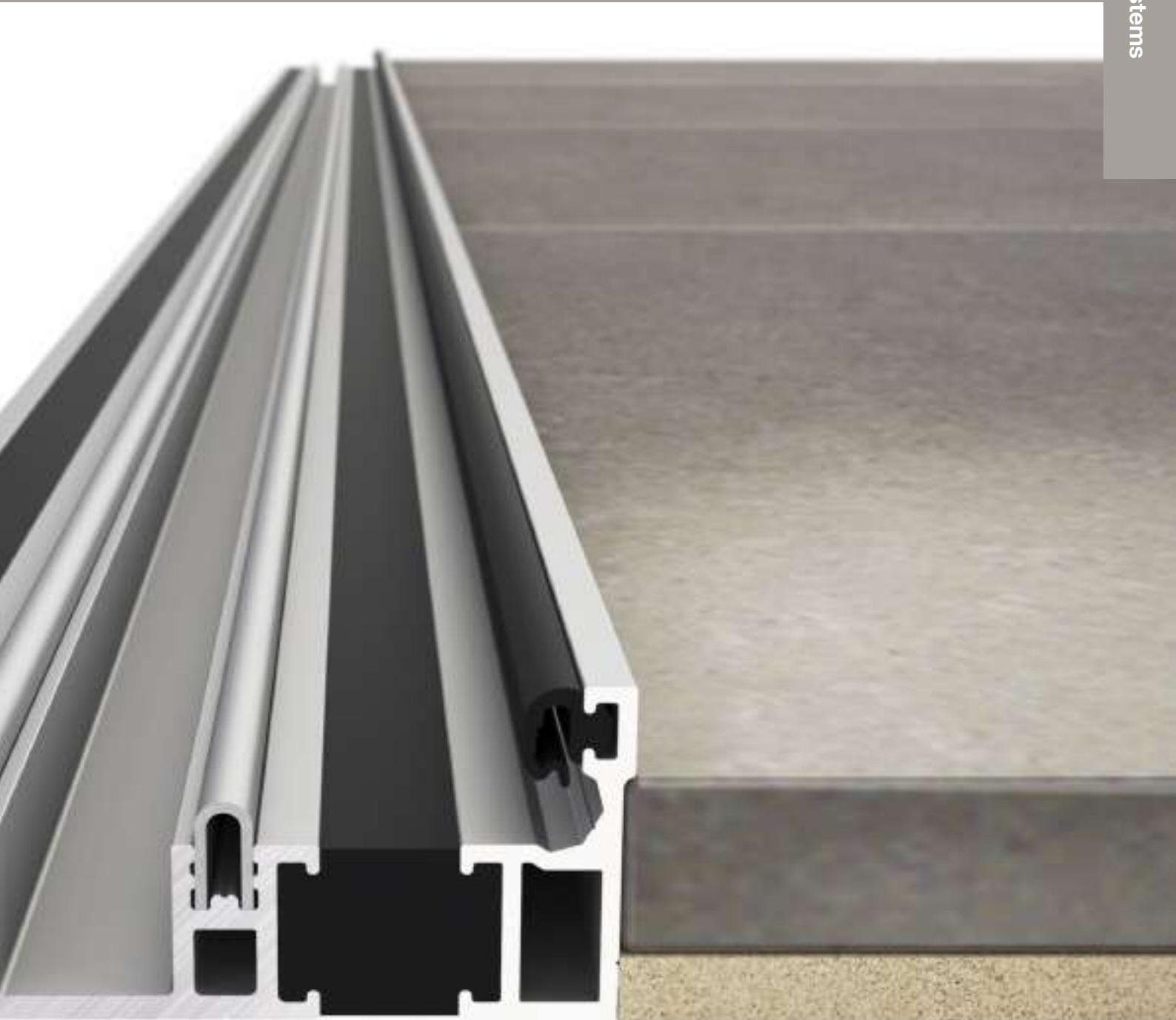


PUR235NT  
Low Threshold



SPW65353X  
25mm Add-On





# > PERFORMANCE

Impressive thermal performance and stylish looks, Ali FOLD doors are ideal for both commercial and domestic use.

With it's high performance polyamide thermal barrier Ali FOLD doors give impressive U-values as low as 1.19 W/m<sup>2</sup>K.

Able to receive triple glazing up to 48mm the Ali FOLD door also gives excellent thermal and acoustic performance.

Our product ranges have been designed with performance in mind and have a proven track record of helping our customers achieve credible BREEAM ratings.

For project specific assistance, please contact our technical sales team.



## Weather Rating

Tested to BS6375-1, BS6375-2 and BS6375-3 Annex A

## Security

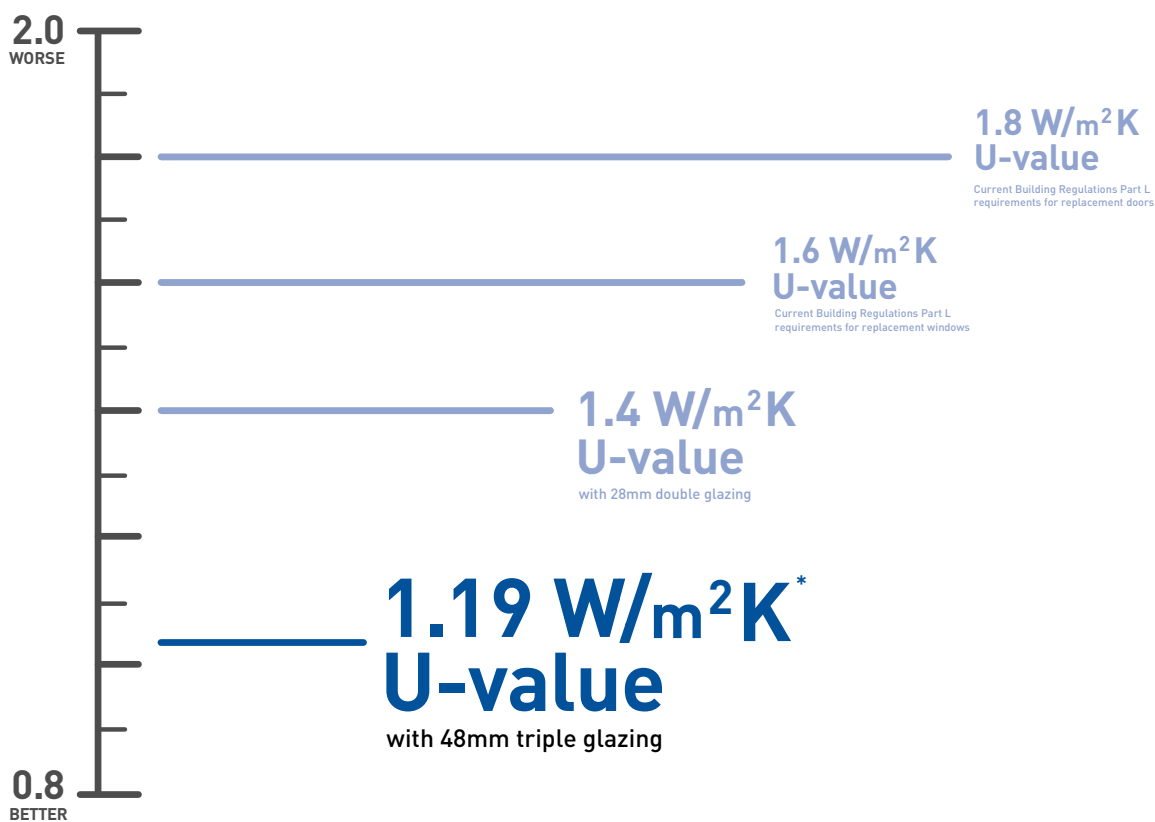
Security tested to PAS24: 2012, security hardware required.  
Q-Mark fully certified.

*For glazing specification please contact our technical department*

## Technical support

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

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



#### Single door - average U-values

CEN standard - Standard	2000 x 2180mm
28mm Double Glazed Unit	1.73 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.31 W/m <sup>2</sup> K

CEN standard - Thermally Enhanced	2000 x 2180mm
28mm Double Glazed Unit	1.71 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.29 W/m <sup>2</sup> K

#### Folding sliding door system / Average U-values

CEN standard - Standard	2000 x 2180mm
28mm Double Glazed Unit	1.64 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.21 W/m <sup>2</sup> K

CEN standard - Thermally Enhanced	2000 x 2180mm
28mm Double Glazed Unit	1.61 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.19 W/m <sup>2</sup> K

#### Double door - average U values

CEN standard - Standard	2000 x 2180mm
28mm Double Glazed Unit	1.79 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.34 W/m <sup>2</sup> K

CEN standard - Thermally Enhanced	2000 x 2180mm
28mm Double Glazed Unit	1.76 W/m <sup>2</sup> K
48mm Triple Glazed Unit	1.32 W/m <sup>2</sup> K



# AliVU

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WINDOW SYSTEM

**A RANGE OF WINDOWS WITH SUPER SLIM SIGHT LINES OFFERING IMPRESSIVE THERMAL PERFORMANCE AND WIDE RANGE OF DESIGN OPTIONS**

Window systems



The Ali VU casement window has been designed to meet current and future building regulations, with impressive U values and thermal performances.



# > SYSTEMS

A revolutionary range of aluminium windows with an innovative enhanced thermal barrier.

## Ali VU casement

- Super slim sightlines allow maximum daylight
- Range of vents available for aesthetic choice: radius, flat faced and stepped face 'crittal style'
- PAS 24 covered on all options in the range
- Range of beads, cills, corner posts and baypoles
- Robust hardware ensures years of trouble free operation, available in a range of finishes
- Thermal improvements available via centre seal and backer rods for added energy savings
- 40+ years life expectancy\*



\*When installed and maintained in accordance with manufacturer's recommendations.

### Typical\* sizes

Top Hung	1400mm x 1400mm
Side Hung	950mm x 1400mm

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

### Glazing

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

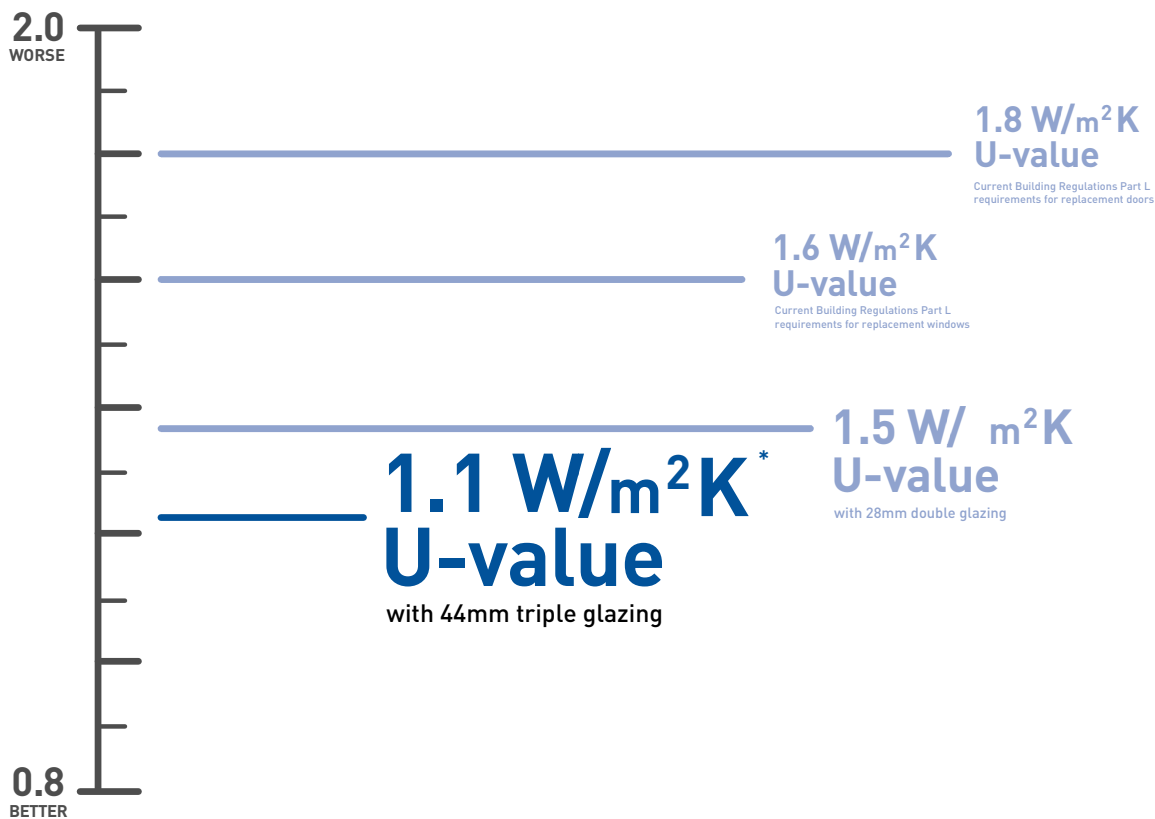
### Technical support

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

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

# > PERFORMANCE

Impressive thermal performance and stylish looks, Ali VU windows are ideal for both commercial and domestic use.





Window systems

Weather Rating  
BS6375 part 1

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

Average U values

Residential CEN standard	1230 x 1480
 28mm Double Glazed Unit	1.5 W/m <sup>2</sup> K
 44mm Triple Glazed Unit	1.1 W/m <sup>2</sup> K

*Figures based on flat-faced vent option*

Testing

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

Window Energy Rating

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



# PUR<sup>e</sup>

WINDOW SYSTEMS

## REVOLUTIONARY RANGE OF ALUMINIUM WINDOWS FEATURING AN INNOVATIVE, PATENTED THERMAL BARRIER ALLOWING ULTRA LOW U-VALUES TO BE ACHIEVED

Window systems



The PUR<sup>e</sup> window range has been designed to exceed current and meet future building regulations, with impressive U-values and thermal performances.



# > SYSTEMS

A revolutionary range of aluminium windows with an innovative enhanced thermal barrier.

## PUR<sup>e</sup> casement window system

- Classic casement window for a traditional look, can be either top hung or side hung
- U-values as low as 0.73 W/m<sup>2</sup>K
- Able to receive double or triple glazing up to 50mm for maximum thermal and acoustic performance
- Open out option particularly useful over sinks, worktops

Also shown:  
Overswing and Tilt/Turn options  
Contact us for more information



Casement option: typical\* sizes

	Width (mm)		Height (mm)
PUR <sup>e</sup> Casement	1500	x	1500

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

### Glazing

Thickness	28mm - 50mm
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For thicker options please consult our technical department

### Options

Available in Casement, Tilt & Turn and Overswing configurations
-----------------------------------------------------------------

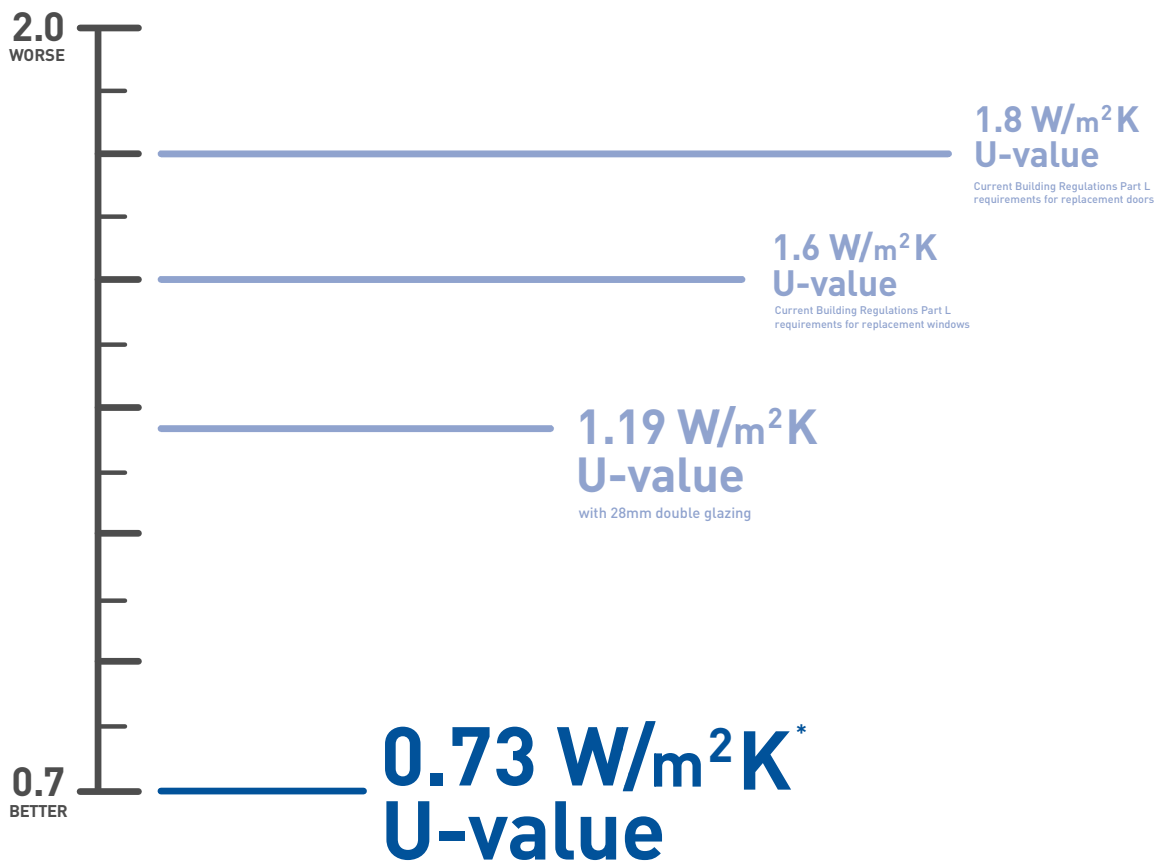
### Technical support

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

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

# > PERFORMANCE

Impressive thermal performance and stylish looks, PRe® windows are ideal for both commercial and domestic use.



Window systems





Casement option: weather Rating  
BS6375 part 1

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

Testing

Tested to PAS24, BS6375-2 and BS6375-3

Casement option: average U values

Residential CEN standard		1230 x 1480
	28mm Double Glazed Unit	1.24 W/m²K
	48mm Triple Glazed Unit	0.76 W/m²K
Commercial CEN standard		1230 x 1480
	28mm Double Glazed Unit	1.19 W/m²K
	48mm Triple Glazed Unit	0.73 W/m²K



# Aluminium Series 2

**CASEMENT WINDOW FEATURING SLIM SIGHTLINES WITH IMPRESSIVE U-VALUES AND HIGH THERMAL PERFORMANCE.**

Window systems

> 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.



# > SYSTEMS

Aluminium Series 2 casement windows feature slimmer sightlines for increased aesthetics and have been designed to exceed current and meet future building regulations.

## Aluminium Series 2

- Inline vents give uniform sightlines throughout the range
- Internal aluminium elements available in engineered timber without the need for additional tooling.
- Range of glazing thicknesses available up to 44mm
- Simple to fabricate and can be easily glazed on site
- 40+ years life expectancy\*



\*When installed and maintained in accordance with manufacturer's recommendations.

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 - 44mm

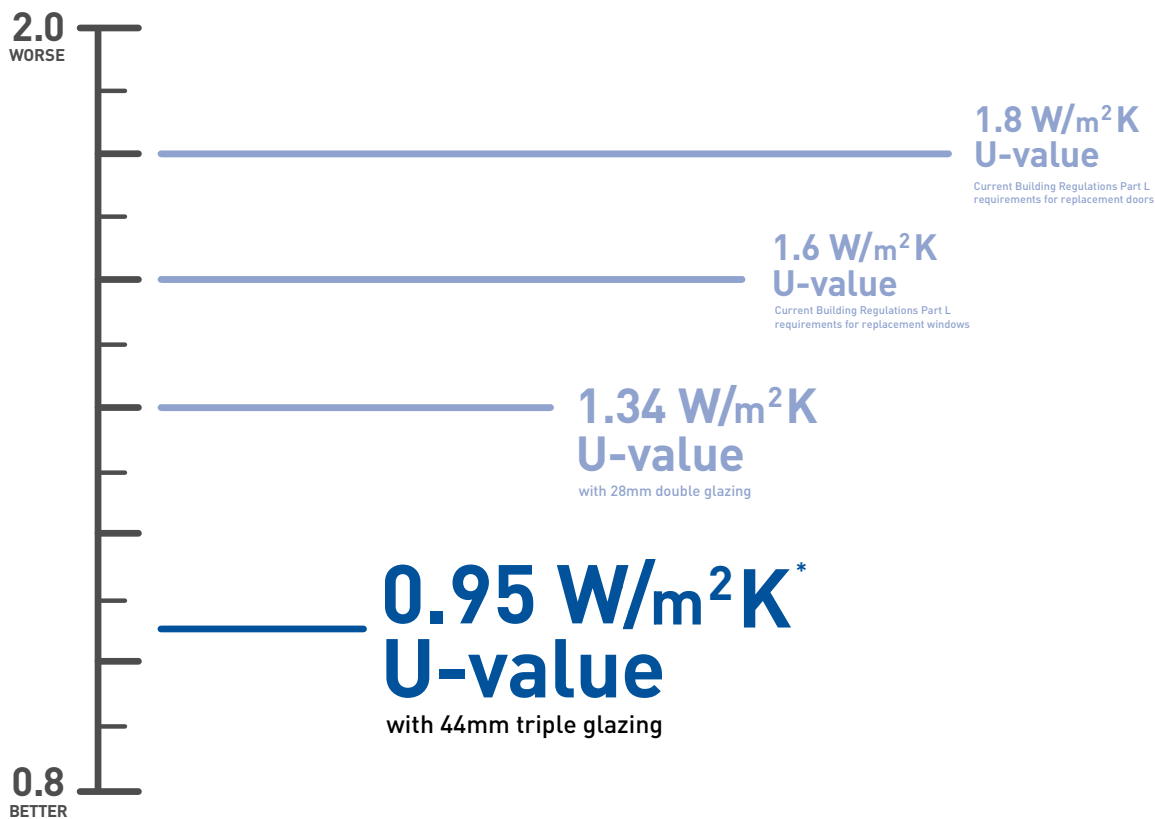
### Technical support

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

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

# > PERFORMANCE

Impressive thermal performance and stylish looks, Aluminium Series 2 windows are ideal for both commercial and domestic use.



Weather rating  
BS6375 part 1



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

Testing



Tested to PAS24, BS6375-2 and BS6375-3

Average U values

Residential CEN standard







	1230 x 1480
 28mm Double Glazed Unit	1.50 W/m²K
 44mm Triple Glazed Unit	1.14 W/m²K

Commercial CEN standard

	1230 x 1480
 28mm Double Glazed Unit	1.34 W/m²K
 44mm Triple Glazed Unit	0.95 W/m²K

the Senior difference

# > AT A GLANCE / DOORS






		CEN U-value	Thermal barrier	Max width outerframe
	<b>PURE® FOLD</b> - single - double	1.02 W/m²K 0.97 W/m²K	Polyurethane Polyurethane	1130mm 2162mm
	<b>PURE® FOLD</b> - folding sliding door	0.93 W/m²K	Polyurethane	6000mm
	<b>PURE® SLIDE</b> - inline slide	1.11 W/m²K	Polyurethane	6000mm – 11938mm*
	<b>PURE® SLIDE</b> - lift & slide	1.11 W/m²K	Polyurethane	6000mm – 11938mm*
	<b>Ali FOLD</b> - single - double	1.29 W/m²K 1.32 W/m²K	Polyamide Polyamide	1130mm 2162mm
	<b>Ali FOLD</b> - folding sliding door	1.19 W/m²K	Polyamide	6000mm



<i>Max leaf size</i>	<i>Max leaf weight</i>	<i>Glazing thickness</i>	<i>PAS 24 certification</i>	<i>Q Mark Accredited &amp; Document Q Compliant</i>	<i>BS6375 Part 1, 2 &amp; 3 Annex A</i>
1000mm x 2616mm	100kg	28mm - 48mm	Yes	Yes	Yes
1000mm x 2616mm	100kg	28mm - 48mm	Yes	Yes	Yes
3005mm x 2916mm	160kg	28mm - 52mm	Yes	Yes	Yes
3005mm x 2916mm	200kg (300kg heavy duty option)	28mm - 52mm	Yes	Yes	Yes
1000mm x 2616mm	100kg	28mm - 48mm	Yes	Yes	Yes
1000mm x 2616mm	100kg	28mm - 48mm	Yes	Yes	Yes

the Senior difference

# > AT A GLANCE / WINDOWS

		CEN U-value	Thermal barrier	Jointing method
	<b>Ali VU</b> - casement	1.1 W/m <sup>2</sup> K	Polyamide	Crimped cleat
	<b>PURe®</b> - casement	0.73 W/m <sup>2</sup> K	Polyurethane	Mechanical or crimped cleat
	<b>PURe®</b> - tilt/turn	0.71 W/m <sup>2</sup> K	Polyurethane	Mechanical or crimped cleat
	<b>PURe®</b> - overswing	0.93 W/m <sup>2</sup> K	Polyurethane	Crimped cleat
	<b>Aluminium Series 2</b>	0.95 W/m <sup>2</sup> K	Polyamide	Crimped cleat

<i>Typical* vent size</i>	<i>Sightlines</i>	<i>Glazing thickness</i>	<i>PAS 24 certification</i>	<i>Q Mark Accredited &amp; Document Q Compliant</i>	<i>BS6375 Part 1, 2 &amp; 3 Annex A</i>
Top hung 1400 x 1400mm	Fixed light 38.5mm	Outerframe/ flatfaced vent 28mm - 44mm Stepped/radius vent 28mm - 36mm	Yes	Yes	Yes
Side hung 950 x 1400mm	With vent 66mm				
Top hung 1500 x 1500mm	Fixed light 55mm	28mm - 50mm	Yes	Yes	Yes
Side hung 1000 x 1500mm	With vent 104mm				
1500 x 1500mm	Fixed light 55mm	28mm - 50mm	Yes	Yes	Yes
	With vent 102mm				
1500 x 1738mm	Fixed light 55mm	28mm - 50mm	Yes	Yes	Yes
	With vent 104mm				
Top hung 1584 x 1584mm	Fixed light 54mm	28mm - 44mm	Yes	Yes	Yes
Side hung 1000 x 1584mm	With vent 54mm				

the Senior difference

# > OTHER PRODUCTS



## SPW600e Windows

SPW600e is a three chamber, 75mm polyamide thermally enhanced aluminium window system offering versatility (wide variety of window styles) and is available in single or dual colour.



## Hybrid Windows & Doors

A leading range of timber and aluminium composite windows and doors that can be used independently or in combination with the Hybrid curtain wall system.

A Hybrid Series 2 window suite is also available, featuring slimmer sightlines for increased aesthetics.



## SPW501 Doors

Commercial thermally broken aluminium door with enhanced design options offered by a clip and flush mullion section. Available in a choice of widths.



### **PURe® Windows**

A revolutionary range of aluminium windows with an expanded polyurethane thermal barrier giving exceptional thermal performance.



### **Aluminium Curtain Wall**

A range of curtain walling systems, providing a wide variety of aesthetics and excellent thermal performance for both ground floor and high rise projects.



### **Hybrid Curtain Wall**

Unique UK manufactured timber aluminium composite curtain wall system, fully CWCT compliant. Wide variety of design alternatives.

## 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](mailto: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.

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

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



# bringing buildings to life



**SENIOR** ARCHITECTURAL SYSTEMS

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

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