



PREFIX ALUMINIUM  
SUPPLIERS OF **\*smart**



## OPEN UP TO NEW IDEAS ...

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The Smart Systems range of windows and doors offers exceptional quality when it comes to performance and design, to transform any home into living space that is truly outstanding.

From the ultra-slim bi-folding doors to iconic steel replica windows, Smart offers unique solutions for every home.

**smart**

MANUFACTURED  
INTHEUK

A small Union Jack flag is held by a hand, symbolizing British manufacturing.

# ALUMINIUM VS. PVC

For many years PVC has always been the product of choice for windows and doors. More recently, aluminium has fast become the desired choice for discerning consumers and enhancing commercial projects. Here, we look at the differences between aluminium and PVC and why aluminium is inevitably the better choice.

## LONGEVITY

Aluminium windows and doors are much more robust than PVC and they don't rot or rust. They can last around 40-50 years with proper care, whereas PVC has a much shorter life expectancy of around 20 years.



## COST

In a nutshell aluminium is more expensive than PVC. However, aluminium is an investment and can be more cost effective as they last much longer and are a much more secure system. Plus they have a much slimmer design.



## STRENGTH

Aluminium is much stronger and more durable than PVC. It is a low density metal, so you can achieve very slimline frames which are sturdy and strong. It can also withstand extreme weather conditions.



## SECURITY

The robustness of aluminium offers superior strength to withstand any attacks. We use top-quality hardware & multipoint shoot-bolt locking mechanisms with the option of 3 locks to completely secure our windows and doors.



## ENERGY EFFICIENCY

Aluminium window and doors are thermally broken and exceed all u-value targets. The materials used have a very high resistance to heat transfer giving improved thermal efficiency.



## COLOUR

Different colour finishes and textures on aluminium can be achieved by powder coating and anodised option which provides longevity of colour and performance. PVC has limited colour finish options which can be easily marked and damaged.



# ENERGY EFFICIENCY

With energy bills on the rise, thermal efficiency remains one of the number one priorities for most homes. Loss of heat plays a major part in the usability and comfort of any living space and as a result causes high energy bills. All the windows and doors are enhanced with innovative polyamide thermal barrier technology which enables all our systems to exceed the energy performance requirements of current UK Building Regulations.

Windows are assessed by the British Fenestration Rating Council (BFRC) and rated using a A to G scale on the basis of their total energy efficiency where an A rated window is more efficient than a G rated window. The rating covers the frame material, the frame design, glass type and all other components that make up the window.

- Building control requires windows to satisfy either a U Value of 1.6 or lower or a WER of C or better.
- Building control requires doors to satisfy either a U Value of 1.8 or lower or a WER of E or better.



# BUILDING REGULATIONS

## Document L

All the windows and doors we offer satisfy Building Regulations Part L for refurbishment and new-build applications. Part L of the building regulations, in tandem with the latest SAP guidance defines how energy efficient buildings should be, and sets building standards to reduce CO2 emissions.

## Document Q

This latest addition to Building Regulations brings security to the forefront by setting out reasonable standards for all doors and windows in all new residences or new doors and windows in older properties. Under the new standards, all new doors and windows should be made to a design that has been shown, by test, to meet the security requirements of PAS24:2012.

All homes must be able to demonstrate that the windows and doors satisfy Building Regulations by producing a certificate of compliance either from an approved installer or your Local Authority Building Control Department.

**Please speak to our technical department if you require further clarification on Document L, Q, M or Building Regulations.**

# WINDOWS

ALITHERM 400 | 800 | HERITAGE | ECO FUTURAL

Aluminium windows are fast becoming the material of choice for homeowners who want a low-maintenance window with high performance levels at an affordable cost. A naturally durable material, aluminium improves the warmth and energy efficiency of your home whilst also looking incredibly stunning. The slim profiles mean more light and less frame providing a contemporary, sleek appearance. With a range of systems to choose from and hundreds of colours and finishes, aluminium windows are the perfect investment for any home.



FRAMING THE FUTURE WITH ALITHERM 400



Combining outstanding value and quality, with class-leading performance and security, Alitherm 400 delivers a range of stylish, energy-efficient window and single and double door options. Fully compliant with Part L of the Building Regulations, this versatile system is perfect for a wide range of both new build and refurbishment projects, including, schools, colleges, hospitals, offices and public sector housing – as well as individual homes. In fact, the system's supreme flexibility makes it the ideal solution for almost **any project**.

Available in fixed, side hung, top hung, tilt & turn and flush casement options.

**Side Hung** Max. Width - 864mm, Max. Height - 1400mm

**Top Hung** Max. Width - 1400mm, Max. Height - 1400mm

**Fixed** Max. Width - 2100mm, Max. Height - 200mm

**Tilt Turn** Max. Width - 1200mm, Max. Height - 200mm

**Glazing:** 24, 28, 32, 36, 40& 45mm



Alitherm 800 windows have a flush sash finish and are the ultimate window for clean and modern aesthetics. The sash (the opening part of the window) sits on the same plane as the rest of the window creating a flush, in-line cutting-edge look to this high performance window system.

Side Hung Max Width - 700mm, Max Height - 1400mm  
Top Hung Max Width - 1400mm, Max Height - 1300mm  
Glazing: 24mm or 28mm double or triple glazed units

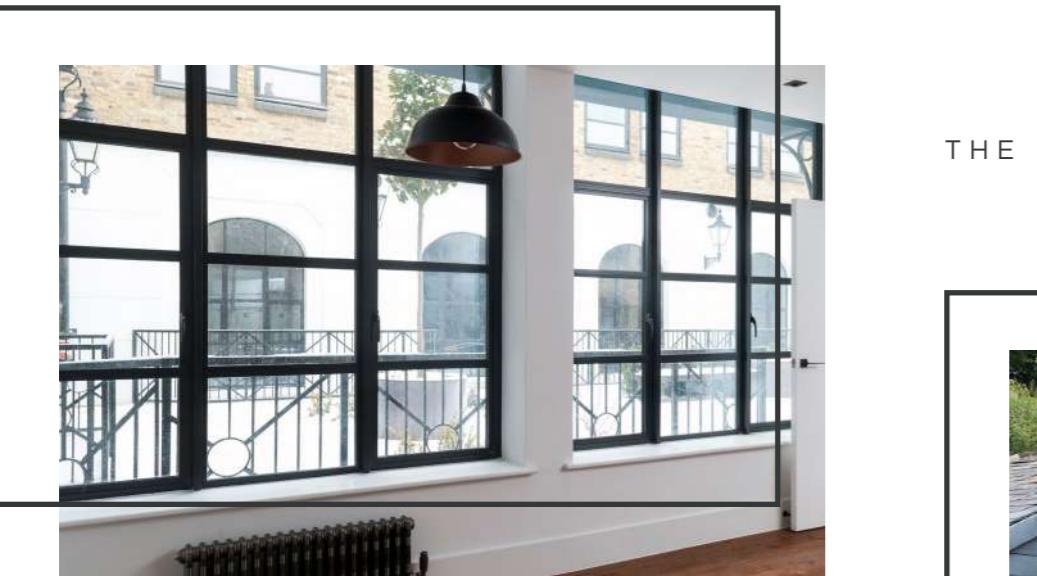
FLUSH SASH FINISH FOR ULTIMATE ELEGANCE



CHOICE OF HARDWARE

*(upgrades available)*

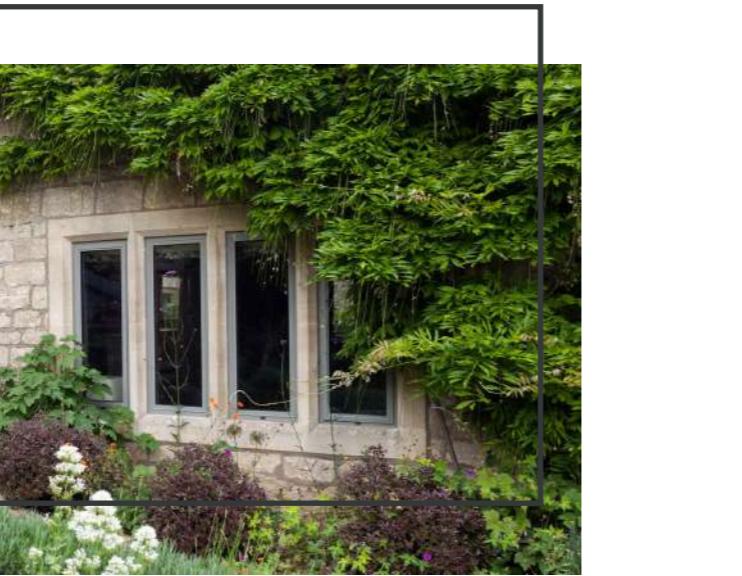




Alitherm Heritage has extremely slim sightlines and is often specified for applications such as listed building renovations. They have been designed as a direct replacement for steel windows. This system can also be used for single, double and bi-folding doors to create a slimline, contemporary alternative.

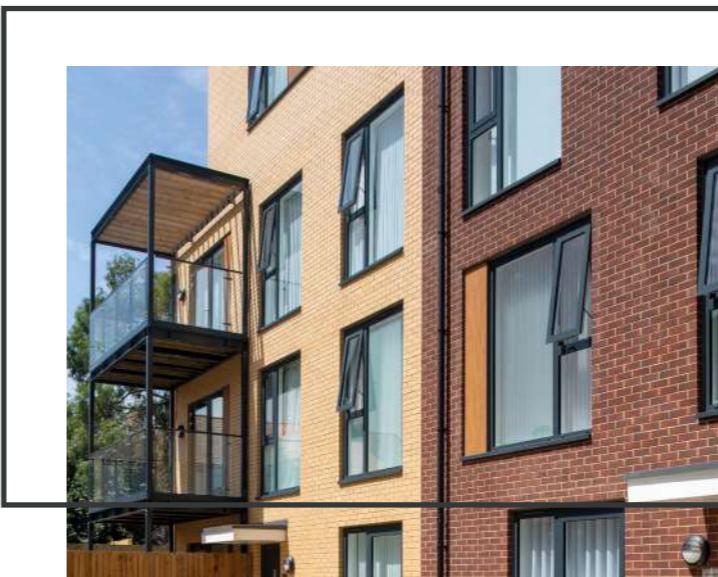
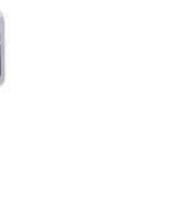
U-value 1.5 | WER B | Frame Depth 49mm | Sightlines 59mm  
 Side Hung Max Width - 600mm, Max Height - 1400mm  
 Top Hung Max Width - 1400mm, Max Height - 1400mm  
 Fixed Max Width - 2100mm, Max Height 2100mm  
 Glazing: 24, 28, 32 & 36 double or triple glazed units

#### THE PERFECT ALTERNATIVE TO STEEL

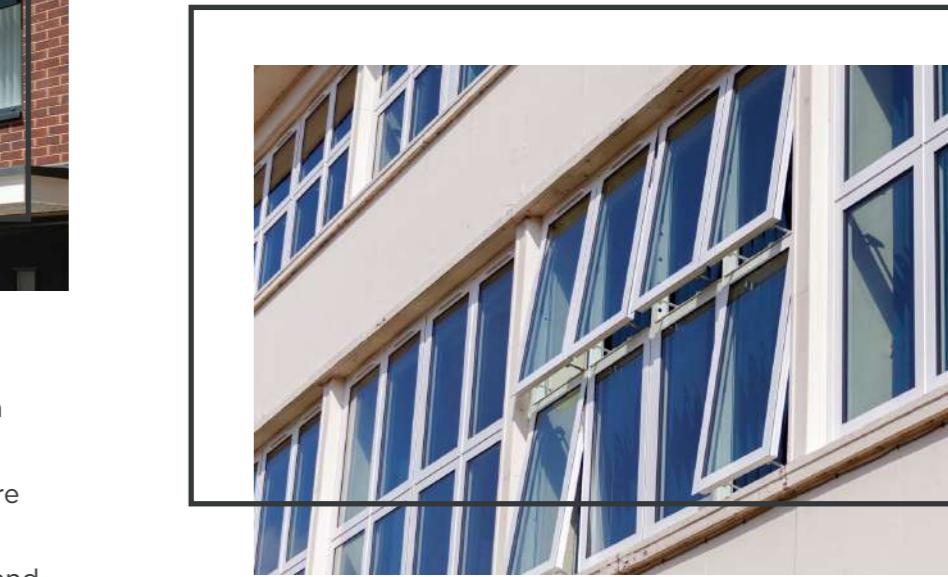


VARIED RANGE OF HARDWARE  
*(upgrade available)*

Ask to see our Heritage brochure



VERSATILE, HIGH PERFORMANCE WINDOWS



Eco Futural windows are a versatile, elegant range of high performance windows suitable for use as tilt & turn, pivot casement, fixed and open out casement windows. They are most common for contemporary domestic properties or commercial applications including education, healthcare and retail buildings but are also a great alternative for residential properties too including apartments.

U-value 1.4 | WER A | Frame Depth 65mm  
 Please ask for Width & Height dimensions

CHOICE OF COLOURS



# DOORS

VISOFOLD 1000 | 6000 | VISOGLIDE | DESIGNER | SIGNATURE

Our wide range of aluminium doors create vast openings in an instant, bringing alfresco living to life at the turn (or pull) of a handle. Due to the natural strength of aluminium, our aluminium doors can be made much slimmer than PVC which results in larger glass areas. We also offer aluminium entrance doors which not only enhance the appearance of any home but also bring further security, energy efficiency and style to the property.





Visofold 1000 smooth sliding bi-folding doors offer impressive opening apertures that can unite internal and external areas creating unique living and social areas. Suitable for both residential and commercial applications. They slide effortlessly with the option to fold the sashes internally or externally.

U-value 1.4W/m<sup>2</sup>K using 1.0 W/m<sup>2</sup>K centre pane

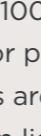
Frame Depth 70-82mm | Sightlines 122mm

Fixed Max Width - 1200mm, Max Height 2500mm

Slide Folding Max. Width - 1200mm, Max. Height - 2500mm

Max Weight 100kg (all sizes/weights are per sash)

As seen on  
Channel 4's  
'Old House,  
New Home'

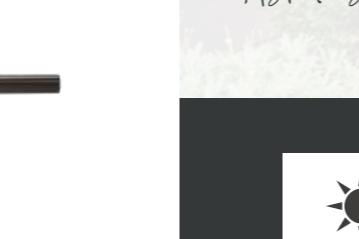


### THE UK'S MOST POPULAR BIFOLD



### VARIED RANGE OF HARDWARE

*(upgrades available)*



Visofold 1000's flexibility makes it the ideal choice for projects where large, uninterrupted openings are required, with the system providing maximum light and space to give unimpeded views.

### KEY FEATURES

- Slim sightlines
- Profile available in square or rounded edge
- Fabricated using mitred corners
- Quickglaze bead & integrated gaskets
- New hooded trickle vents
- Gearbox enhancements
- Improved magnetic latches
- New shootbolt handles
- Heritage option available

Visofold doors are available in a choice of standard or non-standard colours, including metallic, wood-structure, dual colour and our unique Sensations range of textured finishes.

Ask to see our swatches!



U Value  
1.4W/m<sup>2</sup>K



Certified  
PAS24: 2012



Certified  
BS 6375



Dual  
COLOUR



Multipoint  
LOCK



Max Sash Width  
1200mm



Max Sash Height  
500mm



Max Sash Weight  
10kg



Sash Sightline  
12mm

## | VISOFOLD 6000



The Visofold 6000 bi-folding doors have much slimmer, narrower sightlines and frames (94mm compared to Visofold 1000 which has 122mm sightlines) therefore maximising light and space to give unimpeded views. With high-security glazing, robust locking mechanisms, and an unrivalled colour range, these doors can be tailored to meet your specific requirements.

U-value 1.5W/m<sup>2</sup>K using 1.0 W/m<sup>2</sup>K centre pane

Frame Depth 76 or 82mm | Sightlines 94mm

Slide Folding Max Width - 1000mm, Max Height - 2200mm

Max Weight 100kg (all sizes/weights are per sash)

## OUR SLIMMEST BI-FOLD



BLU™ UPGRADES AVAILABLE



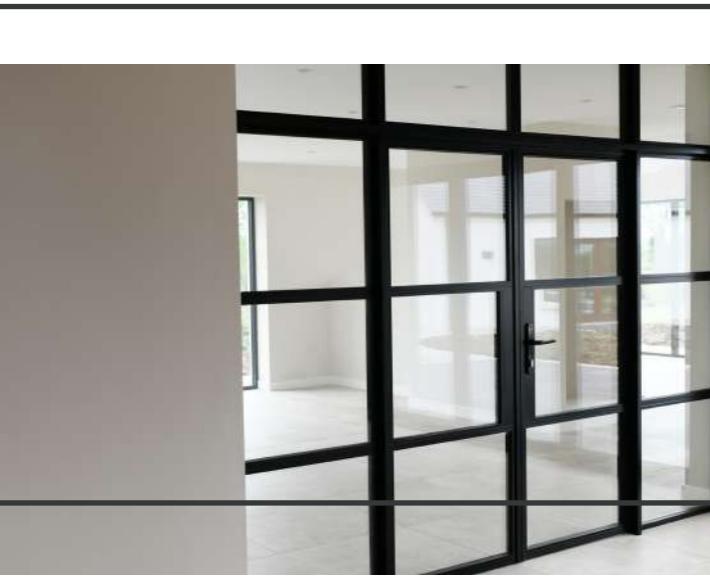


Heritage bifolds are a high quality, high performance slide, folding door developed to match the slim profiles and Art Deco design of traditional steel doors. They provide a modern like-for-like replacement for steel materials and deliver exceptional thermal performance associated with modern aluminium systems. Ask to see a copy of our Heritage brochure for more information or to see our full range!

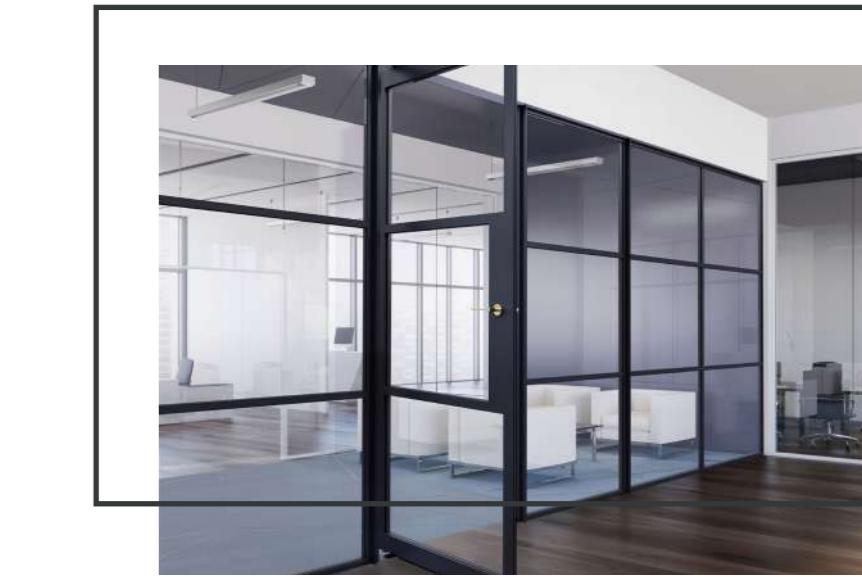
## CHOICE OF COLOURS &amp; FINISHES



## REPLICA OF TRADITIONAL STEEL DOORS



## CREATING SPACE, ELEGANTLY AND EFFICIENTLY



The AluSpace Interior Screening System has been developed to create light and airy internal environments. AluSpace can be used to divide or delineate both residential and commercial spaces of any shape and size, while at the same time providing an effective acoustic barrier. With a choice of hinged single and double doors, as well as pivot and sliding options to accompany the fixed glazed screen, this flexible and versatile system provides almost limitless design possibilities.

- Fixed** - Max. Width 1400mm, Max. Height 2500mm
- Hinged** - Max. Width 900mm, Max. Height 2200mm
- Pivot** - Max. Width 2000mm, Max. Height 2500mm
- Sliding** - Max. Width 1200mm, Max. Height 2500mm
- Glazing** - 6, 8 or 18mm

## | VISOGLIDE PLUS



Visoglide Plus sliding doors maximise light to provide fantastic views of your outdoor space. These sliding doors feature beautiful slim sightlines (53mm), open and close with ease, are lightweight, low maintenance and remain smooth and secure. There is also the option to upgrade to 'soft close' meaning they close smoothly and quietly, without even noticing their presence.

U-value 1.6 | Frame Depth 100mm | 117mm (OF) 83mm (IL)  
Sliding Door Max Width - within height & weight limitations  
Sliding Door Max Height - 2500mm per sash  
Max Weight 250kg - 38mm double or triple glazing

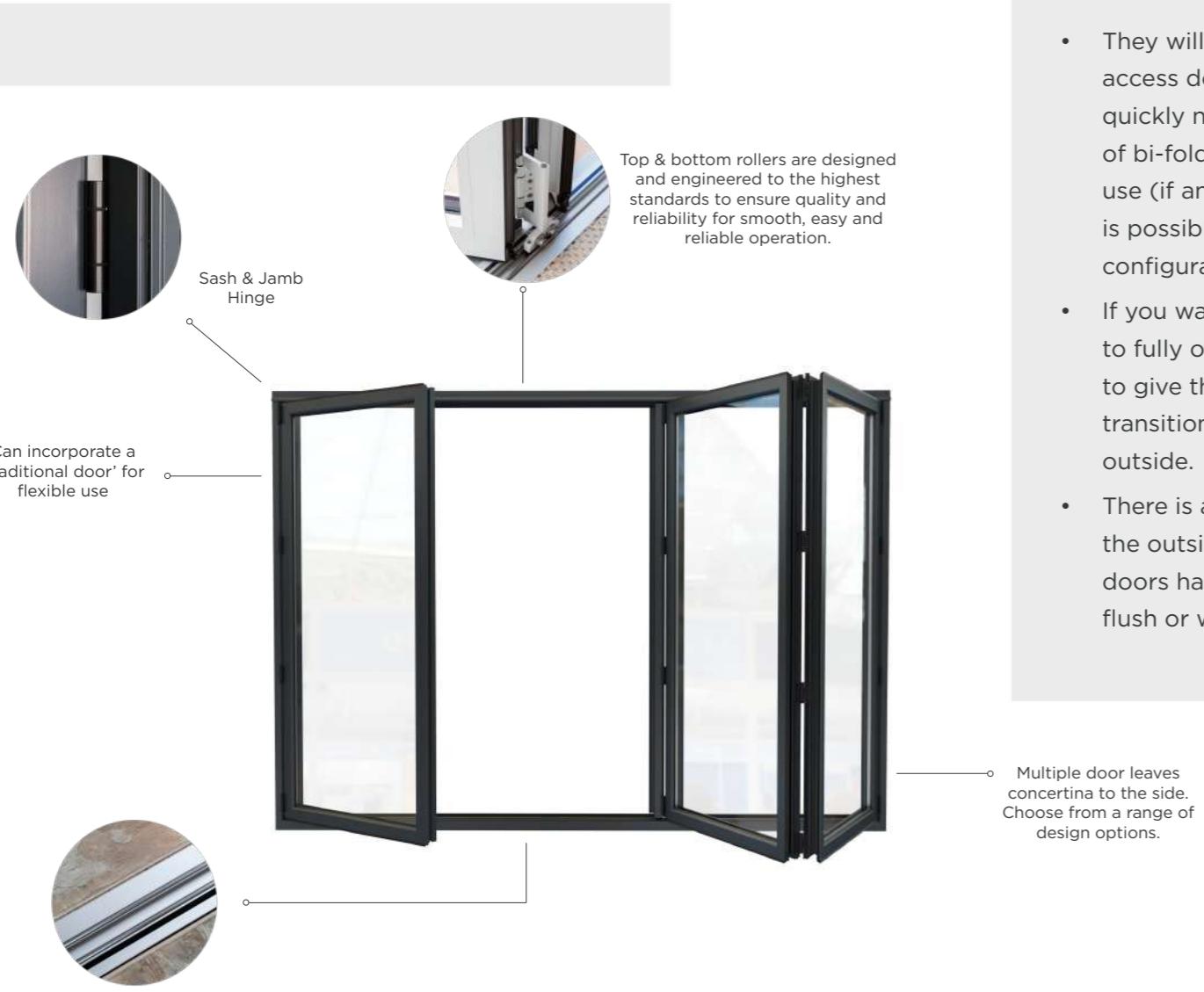
## SMOOTH-SLIDE GLIDING DOORS



## UPGRADE YOUR HARDWARE



## | FOLD OR SLIDE?



### BI-FOLDING DOORS

A choice of rebated or low level thresholds is available. Where the situation allows, thresholds can also be recessed into the floor level.

## CONSIDER IF...

- They will be used as an access door too. You can quickly nip in and out of bi-folds for everyday use (if an access door is possible with your configuration.)
- If you want to be able to fully open the doors to give the seamless transition from inside to outside.
- There is a step down to the outside as folding doors have the choice of flush or weathered tracks.

### SLIDING DOORS

Where the situation allows, the threshold can be recessed into the floor level.

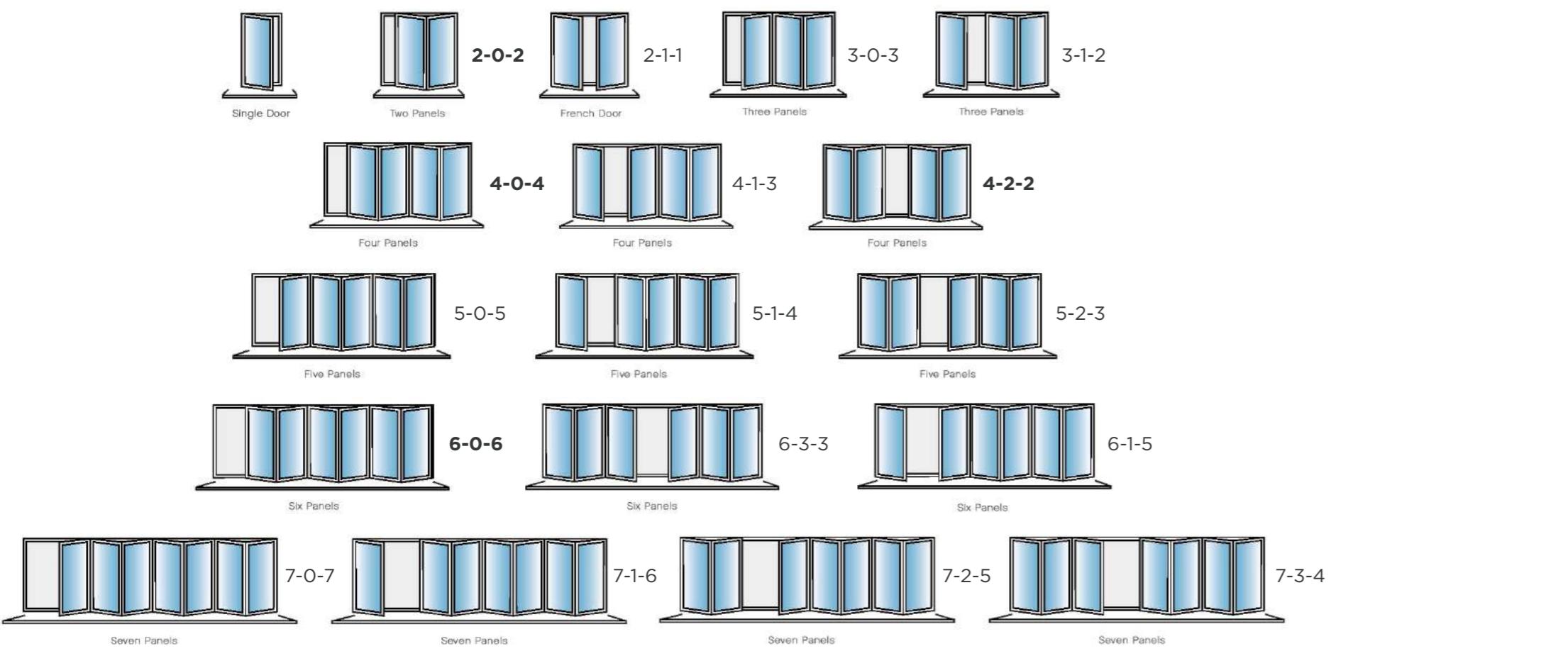


## CONSIDER IF...

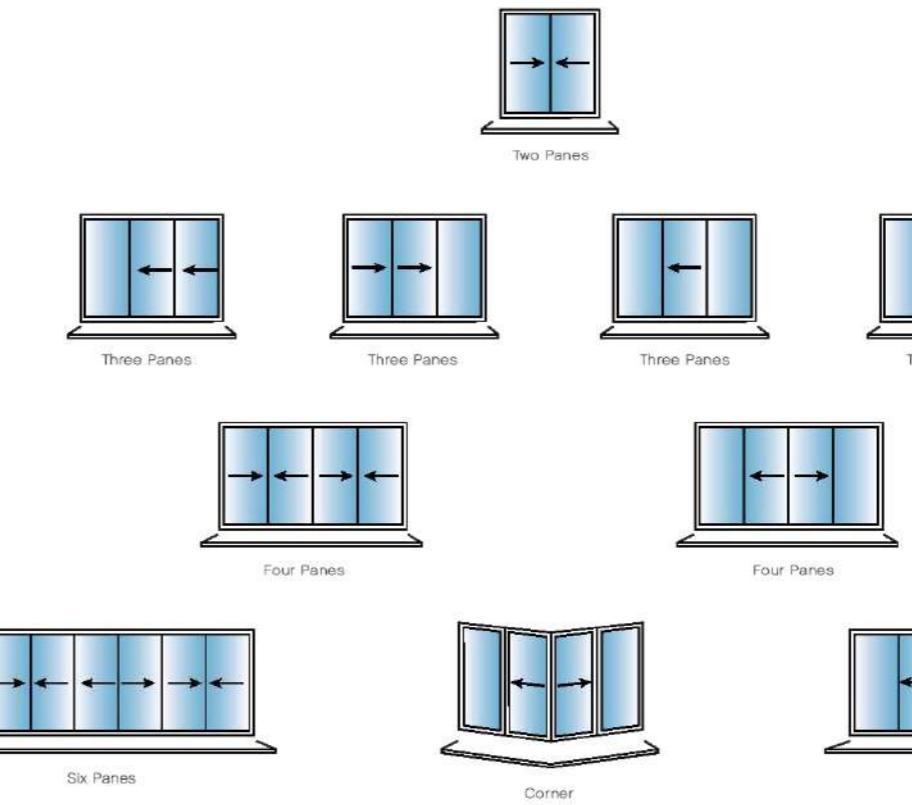
- It's important to have a higher glass to frame ratio. You can fit more glass in a sliding door than you can bi-folds.
- If it restricts thermal valve requirements.
- You have limited space - sliding doors don't need the same space that bi-folds need when they are folded back.

**Bi-folding doors** feature multiple door leaves which concertina to one or both sides of the frames. Bi-folding doors are available with a Master Door which can be used as an access door alone without having to fold back all the other doors.

\*please note the configurations in bold have no option for an external access or traffic door.



**Sliding doors** open and close in line with the large panes stacked one behind the other.



This is just an example of designs, please speak to us about further design options.

## | SIGNATURE DOORS



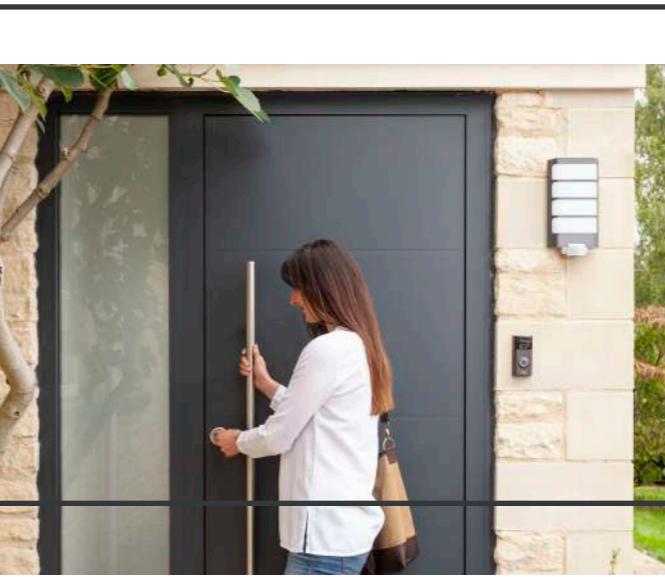
This stunning collection of aluminium entrance doors combines elegance and style, with outstanding performance. Signature Doors have been designed to complement homes of every description – from the very modern to ultra traditional.

The Signature Door range is the result of extensive research and careful design. Having closely examined all the entrance doors currently available and assessed their various strengths and weaknesses, Smarts have developed the next generation, British made aluminium composite entrance door, which delivers all the great features that homeowners want.

## NEXT GENERATION ALUMINIUM COMPOSITE DOORS

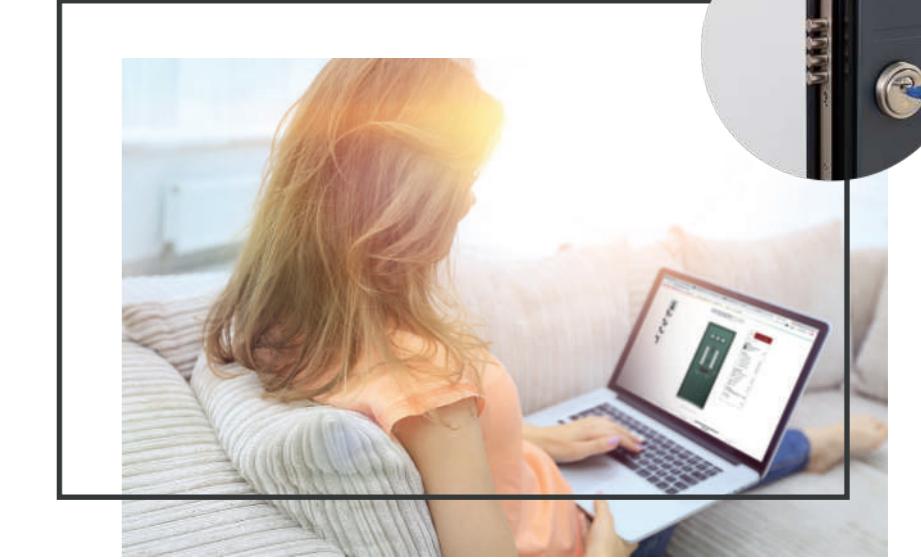


## | DESIGNER DOORS



Designer Doors are our most prestigious door offering. Whichever door you choose, you can be sure of its outstanding performance, with high-quality locking mechanisms and precision construction combining to give unbeatable strength and security. There is a wide range of designs from Traditional & Victorian, to Georgian, Edwardian and Contemporary Chic. There is also an extensive range of colours and door furniture to choose from to guarantee the perfect finishing touch.

## ULTIMATE DESIGNER ENTRANCE DOOR



*Use the online door designer to design your dream door*



# HARDWARE & UPGRADES

Door furniture will have a major impact on the overall appearance of your doors and windows. All our windows and doors come with a standard choice of handles and hardware which are fully compliant and of high quality providing excellent security. However, you can also choose to upgrade to our range of BLU™ hardware should you want that something a little different or high-end.



WINLOCK WINDOW HANDLES - STANDARD ON ALL WINDOWS



UK HARDWARE



UPGRADE BLU™ - REGENT



UPGRADE - BLU™ - CONTEMPORARY & OPERA

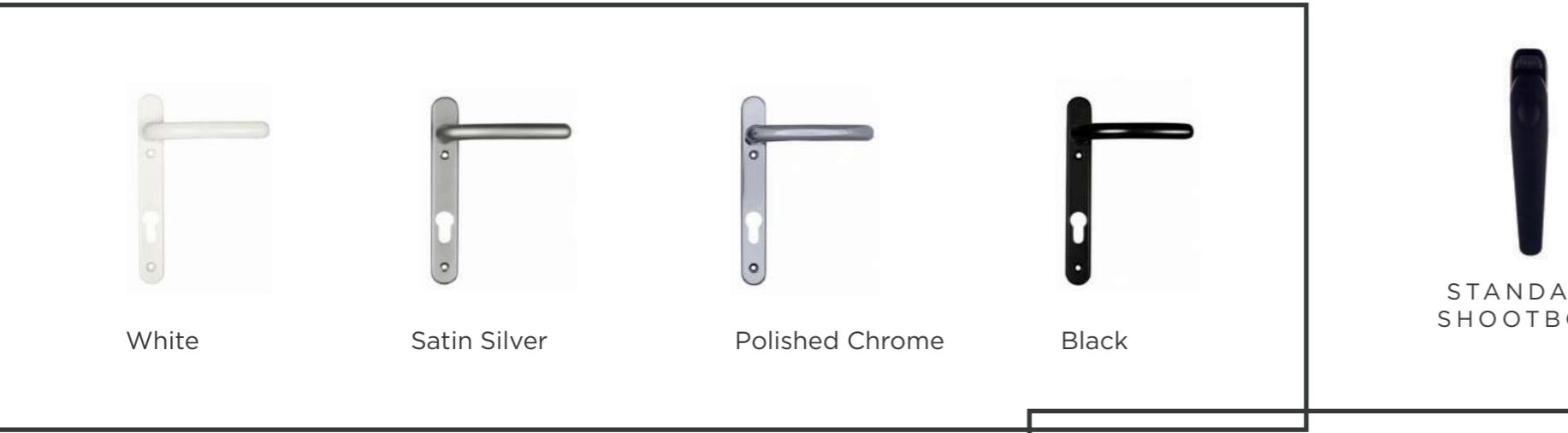
UPGRADE - MONKEYTAIL

\*Monkeytail casement stays also available but only on Heritage systems



We offer a range of upgrades from the **BLU™ performance range**. They are designed and manufactured to the highest standards of 316 Marine Grade stainless steel to withstand the most challenging environments - particularly coastal locations where corrosion is a major issue.

## | DOOR HARDWARE



LEVER LEVER HANDLES - STANDARD ON ALL DOORS



BLU™ SHOOTBOLT  
UPGRADE



Black or white      Polished Chrome



\*only available on lift & slide doors



# SECURITY & LOCK UPGRADES

The standard locking mechanisms & hardware used by us are already fully compliant with current regulations and of a high quality providing excellent security. However, here is the option to enhance security should you choose to do so by upgrading to a Ultion Lock. The moment that Ultion detects forced entry it activates an attack lock directly into the central cam, this is 'Lock Down Mode'. Even if the most determined intruder gets past Ultion's two sacrificial sections they won't get to the attack lock because it is protected deep inside a solid molybdenum core and secured with a dedicated retaining pin.

Ultion has passed all major British standards test for security. It meets the highest TS007 standard (3 star) without needing to be bolstered with support of cylinder protectors or extra secure door handles. Sold Secure Diamond is a test developed in conjunction with The Master Locksmith Association. Test's designed by locksmiths.



All our door systems are available with a Ultion Lock upgrade



ULTION 

The Ultion lock comes with a £1000 Snap Guarantee. Should a burglary take place within 10 years from the point of installation and entry was achieved by snapping a Ultion lock, they will pay you the homeowner £1000. To activate the guarantee, they will need to complete registration within 28 days of the doors being installed.

| LIFE IS BETTER IN COLOUR

STANDARD COLOURS



SENSATIONS



COTSWOLD



NATURALS



Ask to see our swatches!

Although the colours in this brochure are accurate, they are only for illustrative purposes and not 100% binding in colour.

# PREFIX ALUMINIUM

SUPPLIERS OF <sup>•</sup>**smart**



[WWW.PREFIXSYSTEMS.CO.UK](http://WWW.PREFIXSYSTEMS.CO.UK)