



PRODUCT PORTFOLIO -
RESIDENTIAL

ALUK[®]

INTERNATIONAL BRAND, LOCAL EXPERTISE

AluK is a leader in the design and engineering of aluminium building systems, providing the residential market with excellent window and door systems.

For more than forty years round the world, and more than twenty years in the UK, AluK has designed cutting-edge products for the building industry and our technical support can help you complete your projects with confidence.

Our high performance systems are ideal for the housing sector, meeting the needs of both modern and traditional residences with narrow sightlines, stunning details, and a range of design options to suit your customers.

Offering straightforward fabrication and installation, all of our products are quality assured and we have achieved ISO 9001 and ISO 14001 certification.

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INNOVATION IN DESIGN AND MANUFACTURE

Through in-depth research and development, AluK has created a full range of systems that meet and in many cases exceed industry standards and certification, including PAS24 and 'Secured by Design'. They also deliver acoustic, energy and security benefits – providing you with high quality products perfect for your customers' needs.

All of our building systems use aluminium as the core material, offering a strong basis for your residential projects. Aluminium is known for being lightweight and low maintenance, creating

stunning windows and doors that last and are quick and easy to fabricate and install.

Our systems are tested in both our own and third party accredited facilities, where we ensure they pass a series of rigorous tests including: water, wind and airtightness; durability; thermal insulation; and acoustic insulation, so you can rest assured that the products you use are fit for purpose.



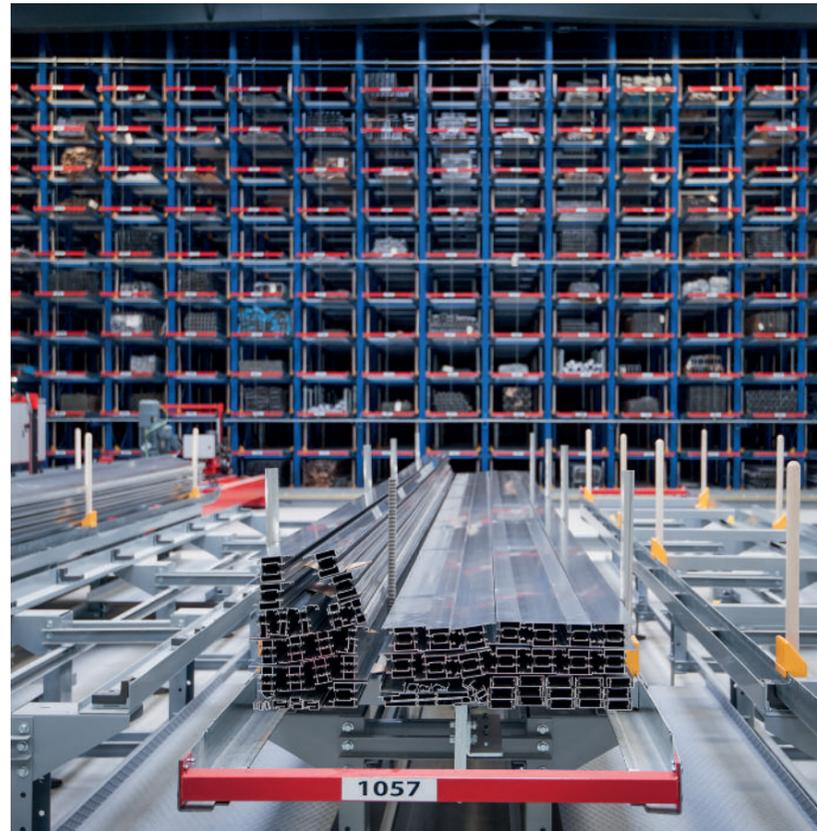
'High performance systems offering stunning design features.'

FABRICATION SUPPORT AND TECHNICAL INNOVATION

At AluK we believe in supporting our partners in delivering the best solutions to their customers. Our goal is to provide you with the support you need to help your business grow and be a success. Through the delivery of innovative products, technical and customer support, and training, we are confident that our partners will have the tools in place to develop and grow their business through the AluK brand.

Delivering superior performance, quality, functionality and appearance, AluK provides our partners with products that lead the market and answer your customer demands.

Our dedicated technical and sales support teams are available to provide timely and expert advice where required. Whether you need technical drawings for a bespoke project or have a specific customer enquiry, we can help you deliver the right service every time. AluK offers all our partners training on our systems at a range of locations across the UK.



'Dedicated technical support delivering excellent products.'



WINDOW SYSTEMS

AluK's aluminium window systems are strong and lightweight, making them ideal for housing.

Our systems meet the high standards you need for your projects, offering security and excellent performance across a full range of possible frame profiles.

Providing clean lines and slim profiles, our windows are available in a wide range of colour options, design features, and formats, allowing you to create the perfect look, whether traditional or modern, for both new build and refurbishment projects.



➤ 58BW WINDOW SYSTEM

The 58BW window system is the perfect choice for residential projects, offering a cost effective, high performance solution in a wide range of configurations and design options, including single or dual colour option, polyester powder coating and anodised finishes. This system is available in a stunning variety of traditional and contemporary formats, including Chamfered, Ovolo, and Bay, with a range of glazing and hardware options, giving you the flexibility you need.



Ovolo

Our traditional Ovolo windows combine a timeless look of sculpted beading with ground-breaking technology, providing a classic, yet sustainable glazing solution. Certified under 'Secured by Design', Ovolo is a high performance, robust and reliable window made of inherently strong aluminium, offering reliability and security.

- Traditional sculpted Ovolo beading
- Internally or externally glazed options
- A range of frame depths to suit the home
- Three chamber window system for exceptional stability
- Both aluminium and PVC groove hardware available
- Single or dual colour options, polyester power coating and anodised finishes
- All certified under the Secured by Design scheme



Chamfered

Highly flexible and adaptable, our Chamfered range is ideal for a traditional glazing look.

Using innovative technology and sustainable aluminium, our chamfered windows improve safety, increase thermal performance and complement the style of any home.

The stylish but traditional Chamfered window comes with a variety of configurations and advanced functionality to meet your requirements, so you can rest assured that you have chosen the perfect solution.



- Traditional Chamfered design
- Internally or externally glazed options
- A range of frame depths to suit the home
- Three chamber window system for exceptional stability
- Both aluminium and PVC groove hardware available
- Single or dual colour options, polyester power coating and anodised finishes
- Customisable components to reach desired thermal performance specification
- All certified under the Secured by Design scheme



Bay Windows

All our window systems are ideal for the creation of Bay Windows, offering a solution with a classic profile and innovative design.

Made from high-performance aluminium, our Bay Window systems are a sustainable and reliable solution, are certified under 'Secured by Design' and provide the perfect solution for traditional and modern bay windows.

- Traditional Chamfered or Ovolo windows
- Internally or externally glazed options
- A range of frame depths to suit the home
- Three chamber window system for exceptional stability
- Both aluminium and PVC groove hardware available
- Single or dual colour options, polyester power coating and anodised finishes
- Customisable components to reach desired thermal performance specification
- All certified under the Secured by Design scheme



➤ 58BW ST STEEL REPLACEMENT WINDOW SYSTEM

The 58BW ST window system provides an ideal solution for the replacement or replication of existing steel windows. The system is available in a range of styles and can be top, bottom or side hung to meet your needs. The design replicates the narrow sight lines associated with steel windows whilst providing fantastic performance and security.

Design Features

- Slim sightlines to match existing steel windows
- Unique polyamide thermal break design to improve performance
- Accommodates standard hardware including friction stays and shoot bolt locking
- Certified under the Secured by Design scheme

Options

- Accommodates 24mm - 28mm glazing units for thermal and acoustic performance
- Double beaded option allows internal glazing without the use of dummy vents
- Dedicated fixing straps for ease of installation
- Full range of customisable hardware available
- Available in single or dual colour option, polyester powder coating and anodised finishes

- Internally beaded for ease of site glazing on high-rise applications
- Integrated deep head profiles for ease of trickle ventilation

Configurations

- Top or Side Hung
- Outward Opening
- Fixed Lights



Flat Line Vent



Steel Look Putty Line Vent



Steel Look Stepped Edge Vent





DOOR SYSTEMS

Safe and very secure, AluK aluminium door systems include high quality multi-point locking mechanisms and a range of other security features. Combined with the natural strength of aluminium, our door systems are some of the most secure available on the market, offering protection from the elements whilst letting the outside in.

Ideal for residential projects, our door systems are available in a complete range of colours and finishes, single and dual aspects, and inward or outward opening options. They also come in a range of glazing depths and many have a low threshold option which meets Part M of the Building Regulations.

➤ 58BD ENTRANCE DOOR SYSTEM

This three chamber system has been designed to offer the highest levels of performance and a choice of configurations and options to fit your project, including a comprehensive range of standard and RAL colours (single or dual colour). Anodised finishes are also available with marine grade guarantees on request.

The 58BD+ entrance door system uses our patented Spidertechnology® ABS strips that allow you to achieve high thermal insulation. The system has been certified under the Secured by Design scheme and includes high security multipoint-locking systems and a range of door furniture.

Design Features

- Three chamber window system for exceptional stability
- Integrated system
- Both aluminium and PVC groove hardware available
- Wide range of styles and configurations to choose from
- A variety of finishes and detailing are available to suit your project
- Customisable components to reach desired thermal performance specification
- All certified under the Secured by Design scheme

Options

- EPDM insulation can be inserted to create a multi-chambered "insulation block" between frame and vent profile and prevent localised convection
- A continuous insulation strip in PE foam can be introduced between the glazing and aluminium profile during glazing to significantly reduce heat loss
- All opening vents can be restricted to 100mm openings
- Full range of hardware and security locking mechanisms available
- Glazing sizes of 25mm – 65mm
- Available in single or dual colour options including anodised finishes

Configurations

- Single & Double Casement
- Side Hung & Bottom Hung (Open In)
- Tilt/Turn & Turn/Tilt
- Tilt & Slide
- Vertical & Horizontal Pivots
- Parallel opening vents
- Lifetime Homes (LTH)



➤ 58BD+ DOOR SYSTEM

The next generation in our residential door range combines very clean lines with superior protection from the elements. This three chamber system has been designed to offer the highest levels of performance, with a maximum vent weight of 150kg and improved glazing thickness. With a choice of configurations and options to fit your project, the 58BD+ system's door sash is flush with the internal and external outer frame.

Finishes include a comprehensive range of standard and RAL colours (single or dual colour); anodised finishes are also available with marine grade guarantees on request. This system is PAS 24 tested and includes high security multipoint-locking systems and a range of door furniture.

Design Features

- Slim sightlines of 109mm
- Green Guide Rating A
- Max leaf weight of 150kg
- The door sash is flush with the internal and external outer frame
- Pas 24
- 58mm - 70mm frame depth matching other AluK door and window systems
- Glazing widths of 24mm – 40mm

Options

- Available in single and dual colour
- Feature, ovolo or square frame options
- Choice of square or chamfered bead

Configurations

- Open In Single Door
- Open Out Single Door
- Open In Double Door
- Open Out Double Door





SLIDING AND FOLDING DOOR SYSTEMS

AluK's sliding and folding door systems are the right solution for homes that want to bring the outside in.

Made from aluminium, our systems have been tried and tested to exceed many standards, including severe exposure categories for weather tightness.

Our wide range of standard and optional features means you can create the doors you want, without compromising on reliability and security.



'Outstanding sliding and folding door systems bringing the outside in'



➤ BSC70 PATIO DOOR SYSTEM

Versatile and robust, the BSC70 aluminium in-line sliding door system combines narrow sight lines, thermal performance and reliable, secure hardware. Available in a wide range of window and door configurations, colours and finishes, this system has been rigorously tested for weather tightness and is suitable for housing jobs.

Design Features

- 70mm frame depth
- Narrow profile offering minimal sight lines 42mm interlock
- Wrap around glazing
- Four stainless steel wheels ensures smooth and consistent operation
- Maximum glazing 28mm

Options

- Two pane sliding door or window
- Four point locking
- Inline track system
- Full range of suited hardware available
- Available in single or dual colour option, polyester powder coating and anodised finishes



➤ BSC94 PREMIUM SLIDING DOOR SYSTEM

The BSC94 aluminium sliding door is a multi-configuration in-line system that lets you fabricate a solution that meets the needs and design requirements of your customers. The system is available in single, double and triple track options, and a full range of colours and finishes (including polyester powder coating and anodised). Outstanding thermal performance and the highest quality fittings ensure reliable and comfortable operation.

Design Features

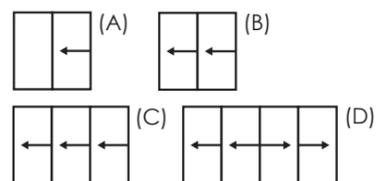
- Three chamber inline slide or lift and slide system
- Up to six sliding configurations
- Thermally enhanced extrusions incorporating glass fibre reinforced polyamide strips
- Robust and durable design allowing up to 200kg panel weight inline sliding and 400kg in a list and slide configuration
- Certified under the Secured by Design scheme

Options

- Accepts 20mm - 31mm Double Glazed Units
- Inline or Lift and Slide
- Single, Double or Triple Track options
- Available in single or dual colour option, polyester powder coating and anodised finishes
- Complete range of hardware and security features

Configurations

- (A) One Panel Sliding
- (B) Two Panel Sliding
- (C) Three Panel Sliding
- (D) Four Panel Sliding
- Fixed lights
- Sliding door
- Single, double or triple track



Configurations

- (A) Two pane sliding door
- (B) Two pane sliding window





BSF70 BI-FOLD DOOR SYSTEM

The market leading BSF70 aluminium bi-fold door system is a very flexible system available in a wide range of configurations. Unique, flush line pop-out handles allow for square stacking panels when the folding doors are in the open position to maximise space, while multiple doors can be combined with open-in or open-out options, which, combined with narrow profiles, create a fantastic look as well as ensuring great operation. The BSF70 can be finished in a range of anodised or polythene powder coat dual aspect colours that can complement many external styles.

Design Features

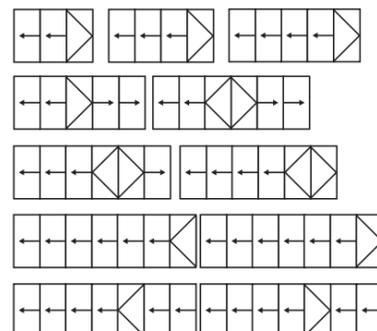
- Internally beaded with a softline or square detail to all external doors and panels
- Four stainless steel wheels per carriage ensures smooth and consistent operation
- Unique, flush T-handle that allows maximum door opening and squared stacking panels
- Tested to PAS 24 and certified under Secured by Design scheme
- Glazing sizing range of 24mm – 40mm

Options

- Doors and panels can be used in a variety of configurations, style and design
- All configurations are available in both open-in and open-out options
- Available in single or dual colour option, polyester powder coating and anodised finishes
- Chamfered and square bead options
- Low threshold option which can be configured to achieve DDA and Part M compliance

Configurations

The BSF70 bi-fold door system is available in a wide range of configurations as demonstrated below. Panels can be stacked inside or outside, to the left or right, or split stacked on both sides.



BSF70 HD BI-FOLD DOOR SYSTEM

Robust and durable, the BSF70 HD provides reliable and consistent operation, holding glass loads of up to 130kg per panel and endurance tested to 25,000 cycles in accordance with BS EN 1527.

The flexible design allows additional panels with open-in or open-out options, while an alignment pin has been built in to ensure accurate and permanent positioning of the doors for easier installation.

The BSF70 HD system is available in a wide variety of configurations, options, and finishes, including anodised or polythene powder coat dual aspect colours.

Design Features

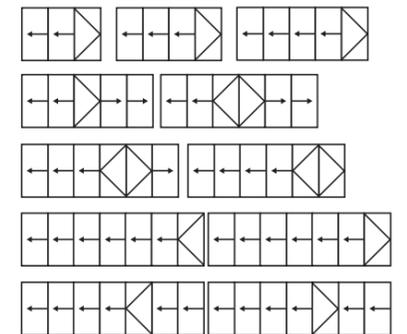
- Each panel can hold a glass load of up to 130 Kg
- Internally beaded with a softline or square detail to all external doors and panels
- Four stainless steel wheels per carriage ensures smooth and consistent operation
- Unique, flush T-handle that allows maximum door opening and squared stacking panels
- Tested to PAS 24 and certified under Secured by Design scheme
- Glazing sizing range of 24mm – 40mm

Options

- Doors and panels can be used in a variety of configurations, style and design
- All configurations are available in both open-in and open-out options
- Available in single or dual colour option, polyester powder coating and anodised finishes
- Chamfered and square bead options
- Low threshold option which can be configured to achieve DDA and Part M compliance

Configurations

The BSF70 HD bi-fold door system is available in a wide range of configurations as demonstrated below. Panels can be stacked inside or outside, to the left or right, or split stacked on both sides.



FEATURES AND DESIGN CONSIDERATIONS

There are many design considerations to think about when fabricating or installing our systems. Our support team is available to talk through any of these aspects to help your projects become a success.

1. System essentials

Making sure that the system you are using meets the basic needs of your project is essential. Here are some of the elements to consider:

- Ventilation Requirements
- Safety Considerations
- Fenestration Configuration
- DDA Compliance
- Cleaning
- Security Measures

Our building systems are highly flexible, helping you fabricate products that are ideal for your projects.

2. System performance

It is also important to think about your performance requirements when choosing and fabricating one of our window or door systems. There are a range of performance criteria that should be considered:

- Thermal Performance
- Acoustic Performance
- Windload
- Environmental Conditions
- System Usage

AluK offers a range of systems that meet and exceed current performance standards and provide you with the right system and performance.

3. Finishings and fixings

The choice of the right finish, colour and hardware for your project will have an impact upon the final aesthetic and security of the building. Finishings and fixings to be considered:

- External Environment
- Planning Requirements
- Security Required
- Style of Fittings
- Warranties and Guarantees
- Anodised or Powder Coated Surface Texture
- Standard or Special Colour
- Marine, High Humidity, Industrial and Environmental

Whatever your requirements, AluK has a complete range of design options and RAL colours for our window and door systems.

4. Features

Other features to be considered include:

- Structural Loads
- Movement Considerations
- Interface and Integration
- Glazing Requirements
- Infill Support and Weight
- Air Seals and Drainage
- System Configuration

Our team is available to guide you through the technical requirements of your system, helping our partners to fabricate solutions that provide the best performance.

5. Testing and certifications

Testing before installation makes sure that your system meets current and future standards. Elements to be considered include:

- Performance Standards
- Security Certification
- Fire Certification
- Equality Act (DDA) Compliance
- Bespoke System Testing
- Integration with other Systems

Our in-house research and development team has the expertise and equipment to test and design our systems, ensuring that both standard and bespoke solutions are fit for purpose and answer your needs.



CASE STUDIES



Mountclaire Court

Whether building an extension, renovating an existing home or embarking on a new build, the installation of windows and doors plays a crucial role not only from the design point of view, but also in terms of safety and performance.

The clients were looking for a solution that would allow them to expand their living space and maximise the amount of natural light in the house. Providing wide expanses of glazing, AluK's BSF70 Bi-fold Door System makes use of the property's large floating corner to create a beautiful open plan area that can be easily integrated with the garden whenever required.

This trend is continued with the BSC94 4 Pane Sliding Door System, 58BW TBT Tilt and Turn Bay Window System, and the 58BW ST Slimline Casement Window System which was specified for its slim sightlines, increasing the flow on natural light and enhancing the feeling of space.

It is estimated that approximately 20% of energy lost from a building is through its windows and doors. Installing thermally efficient window and door systems such as AluK 58BW ST or BSC94 means a more comfortable home where heat loss during winter months is reduced, lowering the homeowners' energy bills and carbon footprint.

Jason Wilder, Director, CWG Choices Ltd, comments: "AluK aluminium window and door systems cater for variety of looks and styles; in this particular project our clients were looking for a modern and contemporary design with metallic finish which we delivered thanks to the range of colour options available. Combined with the outstanding thermal, acoustic and security performance of AluK systems, we were able to complete the build to the highest standards."



4Views

Overlooking the City of Winchester, this stunning house has been designed to create a positive feel and ambience. Based on the principle that a connection with nature is beneficial to the body, the house provides a space for reflection, offering inspiring views over the city and the beautiful countryside.

For the project AluK BSC94 (Duo Rail) and BSC94 (Triple Track) Sliding Door System, as well as 58BW ST (Duo Rail) Steel Replacement Window System were specified. These have then been used for extensive glazing of walls, roof lights and for the open central garden entrance to allow natural light to flood the upper floor, enhance the feeling of space and ensure natural ventilation and free flow of fresh air.

Inherently strong and long-lasting, aluminium stands up to the challenges of everyday life. AluK's building systems have been designed to offer customers the highest thermal performance levels, keeping the heat inside the house, reducing energy bills as well as carbon footprint.

Laura Locke, architect at AR Design Studio comments: "At AR Design Studio we are always looking to create innovative contemporary design with clean, refined materials and detail. We look to create high quality, modern, elegant and functional design solutions. This is why we used AluK building systems at 4Views and frequently choose AluK products for other projects."



Award winning project, 4Views, was awarded the Sunday Times for the British Home Awards 2014.





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