

SLIDING AND FOLDING DOOR SYSTEMS

Bringing together internal and external environments has been a trend that has seen the development of a wide range of products that enable the opening of large expanses of a building. AluK has led the way in designing a complete range of folding and sliding door options that allow specifiers to design buildings that engage with their environments.

However, it is also essential that these products perform to the standards expected and deliver comfortable living and working environments. The flexibility that these innovative systems offer in combining indoor and outdoor life enables building occupants to live their lives the way they choose.

Our systems combine the strength and lightweight properties of aluminium with form and function of the

highest standard. Reliability and security are key drivers in the design of any sliding or folding door system. AluK systems have been rigorously tried and tested to exceed many standards and are certified under the 'Secured by Design' scheme for security and exceed severe exposure categories for weather tightness.

Combining narrow profiles and high thermal performance, our systems offer wide expanses of glazing that allow the light to flood into rooms, whilst maintaining internal temperatures and weather tightness when closed. Through a wide range of standard and optional features we are able to meet the needs of specifiers and designers in achieving the right look and performance for their project.



SLIDING AND FOLDING DOOR SYSTEMS



BSC94 SLIDING DOOR SYSTEM

The BSC94 aluminium sliding door is a multi-configuration in-line system that allows you to specify and design the most suitable solution for your project. The system is available with fixed lights or sliding doors, as well as single, double and triple track options. Outstanding thermal performance and the highest quality fittings ensure reliable and comfortable operation.

DESIGN FEATURES

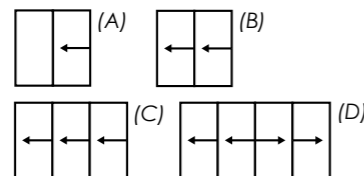
- Three chamber inline slide or lift and slide system
- Up to six sliding configurations
- Available in Single, Double and Triple track options
- Thermally enhanced extrusions incorporating glass fibre reinforced polyamide strips
- Robust and durable design allowing up to 200kg panel weight inline sliding and 400kg in a list and slide configuration
- Certified under 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



BSC94 SLIDING DOOR SYSTEM TECHNICAL SPECIFICATIONS

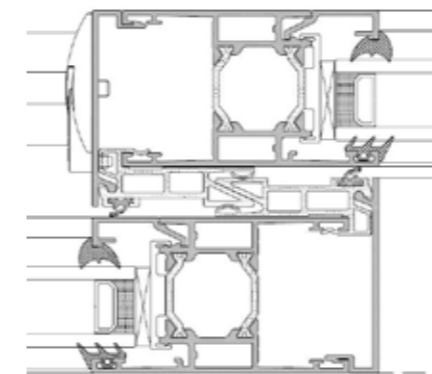
This flexible sliding door system offers specifiers a range of configurations and options to deliver the most suitable solution for your project. In-line and Lift and Slide options, multiple track configurations, an extensive range of hardware and a range

of door styles, colours and finishes provide the flexibility and performance that designers are looking for when specifying entrance solutions. Anodised finishes are also available with marine grade guarantees on request.

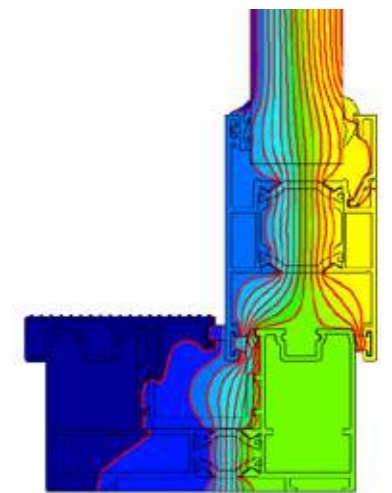
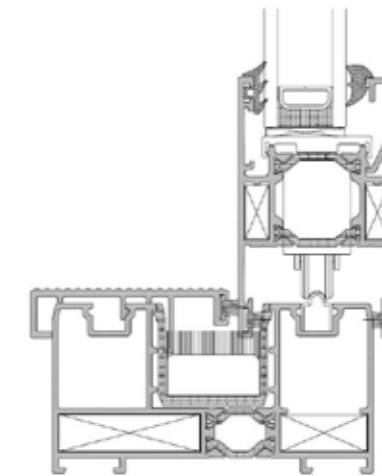
SPECIFICATIONS	INLINE SLIDING	LIFT AND SLIDE
Performance & Accreditation		
U-Value (Double Glazing)*	1.7 W/m²K	1.8 W/m²K
U-Value (Triple Glazing)**	1.5 W/m²K	1.5 W/m²K
Green Guide Rating	C Rated	C Rated
Acoustic Performance (dB)	Rw (C;Ctr) 36 (-1;-3) dB	Rw (C;Ctr) 36 (-2;-6) dB
Air Tightness (Pa)	Class 4	Class 4
Water Tightness (Pa)	Class 7a	Class 7a
Wind Load (Pa)	C4	C4
Security	EN 1627	EN 1627
Configurations		
Opening	Sliding	Lift and Slide
1 Pane	•	•
2 Pane	•	•
3 Pane	•	•
4 Pane	•	•
Size Limits		
Max Vent Weight	200 Kg	400 Kg
System Features		
Frame Options	94mm	94mm
Dual Colour Option	•	•
Multi-Point Locking	•	•
Glazing Options	Internal	Internal
Glazing Thickness	20mm - 31mm	20mm - 31mm

CAD CROSS SECTIONS AND THERMAL PROFILE

Interlock detail



Cill detail



* U-Values based on CEN size door (2000mm x 2180mm) using 1.2 W/m²K double glazing with warm edge Swisspacer V bar. All weather test data taken from BS EN 6375-1 (Part of Pas 23) based upon highest performing door configuration. Sound insulation values are Rw reduction values and are based on tests using acoustic glazing.

Please note: NBS Specifications are available for all products and BIM Components for many. Please visit www.aluk.co.uk to download CAD files, BIM Components and NBS Specifications.



BSC70 SLIDING 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 stylish system has been rigorously tested for weather tightness and is suitable for a range of applications including retail, residential, hospitality and commercial.

DESIGN FEATURES

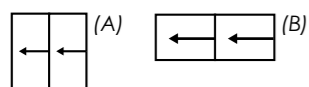
- 70mm frame depth
- Narrow profile offering minimal sight lines 42mm interlock
- Wrap around glazing
- Four stainless steel wheels ensures smooth and consistent operation
- Available in a range of handle style options

OPTIONS

- Two pane sliding door or window
- Four point locking
- Inline track system
- Full range of suited hardware available
- Maximum glazing 28mm
- Available in single or dual colour option, polyester powder coating and anodised finishes

CONFIGURATIONS

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



BSC70 SLIDING DOOR SYSTEM TECHNICAL SPECIFICATIONS

This flexible sliding window and door system offers specifiers a competitively priced solution with slim profile sightlines. Available with two pane sliding door or window options and inline operation,

the system can be specified in a wide range of colours and with a comprehensive selection of hardware. Anodised finishes are also available with marine grade guarantees on request.

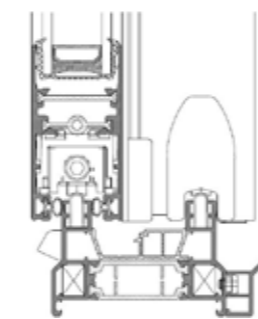
SPECIFICATIONS	INLINE SLIDING
Performance & Accreditation	
U-Value (Double Glazing)*	1.7 W/m²K
Green Guide Rating	A Rated
Acoustic Performance (dB)	33 dB RW
Air Tightness (Pa)	Class 3
Water Tightness (Pa)	Class 7B
Wind Load (Pa)	Class B2
Security	Pending
Configurations	
Opening	Sliding
2 Pane	•
Size Limits	
Max Vent Weight	160 Kg
System Features	
Frame Options	70mm
Dual Colour Option	•
Multi-Point Locking	•
Glazing Options	Wrap Around
Glazing Thickness	28mm



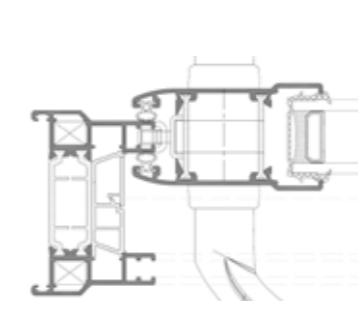
Sliding Door System

CAD CROSS SECTIONS AND THERMAL PROFILE

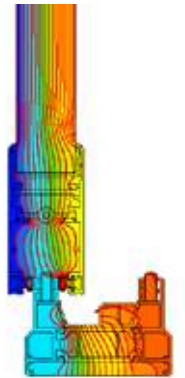
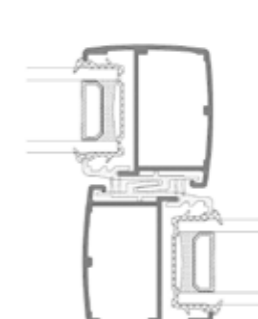
Cill Detail



Jamb Detail



Interlock Detail



* Door U-Values based on CEN size ≤ 3600mm² using 1.0 W/m²K double glazing with warm edge Swisspacer V bar. Corresponds to the BRE Global Green Guide online generic specification for commercial windows and achieves a summary rating of A-B. www.thegreenguide.org.uk Element Number 831500023/813100001. Sound insulation values are Rw reduction values and are based on tests using acoustic glazing.

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BSF70 FOLDING DOOR SYSTEM

Versatile and flexible, the market leading BSF70 aluminium folding door system is available in a wide range of configurations to create the look you desire. Multiple doors can be combined with open-in or open-out options, in a variety of styles to create a wide expanse of opening. The narrow profile ensures that maximum glazing is achieved, flooding rooms with light.

DESIGN FEATURES

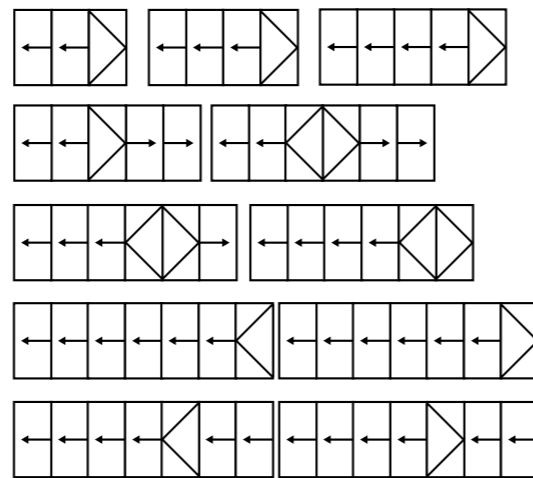
- Internally beaded with a soffline or square detail to all external doors and panels
- Chamfered and square bead options
- Four stainless steel wheels ensures smooth and consistent operation
- Unique, flush line pop-out handle that allows maximum door opening and square stacking panels
- Low threshold option which can be configured to achieve DDA and Part M compliance
- Certified under Secured by Design scheme

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
- Full range of bespoke hardware available
- Glazing sizing range of 28mm – 44mm
- Available in single or dual colour option, polyester powder coating and anodised finishes

CONFIGURATIONS

The BSF70 folding 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 FOLDING DOOR SYSTEM TECHNICAL SPECIFICATIONS

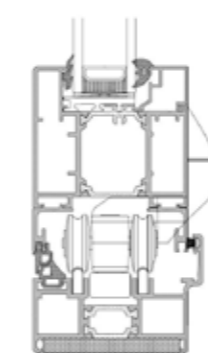
Combining high security hinges and locking mechanisms with a unique high strength roller designs, the BSF70 aluminium folding door system provides the security and reliability demanded in high traffic applications. Doors can be manufactured to replace

whole walls and a full range of colours are available, including single or dual aspect. Anodised finishes are also available with marine grade guarantees on request.

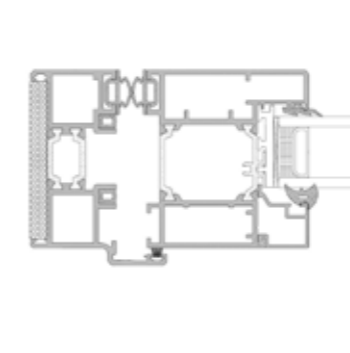
SPECIFICATIONS	FOLDING SLIDING	SINGLE & DOUBLE DOOR
Performance & Accreditation		
U-Value (Double Glazing)*	1.7 W/m²K	1.8 W/m²K
U-Value (Triple Glazing)**	1.6 W/m²K	1.4 W/m²K
Green Guide Rating	A Rated	A Rated
Acoustic Performance (dB)	Rw (C;Ctr) 36 (-1;-3) dB	Rw (C;Ctr) 36 (-1;-3) dB
Air Tightness (Pa)	Class 4	Class 4
Water Tightness (Pa)	Class 7a	Class 7a
Wind Load (Pa)	Class E2400	Class E2400
Security	PAS 24	PAS 24
Configurations		
Opening	Open In & Open Out	Open In & Open Out
2-2-0	●	--
3-3-0	●	--
3-2-1	●	--
4-4-0	●	--
4-2-2	●	--
4-3-1	●	--
5-5-0	●	--
5-3-2	●	--
5-4-1	●	--
6-6-0	●	--
6-3-3	●	--
6-4-2	●	--
6-5-1	●	--
7-7-0	●	--
7-4-3	●	--
7-5-2	●	--
7-6-1	●	--
Size Limits		
Max Vent Weight	100 Kg	100 Kg
System Features		
Frame Options	70mm	94mm 70mm
Dual Colour Option	●	●
Multi-Point Locking	●	●
Glazing Options	Internal	Internal
Glazing Thickness	24mm-44mm	24mm-44mm

CAD CROSS SECTION AND THERMAL PROFILE

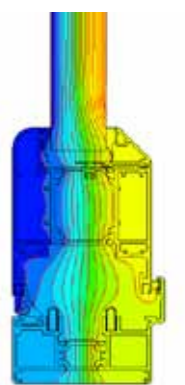
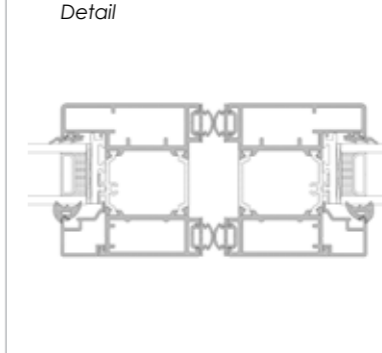
Cill Detail



Jamb Detail



Leaf-Leaf Detail



* Door U-Values based on CEN size ≤ 3600mm² using 1.2 W/m²K double glazing with warm edge Swisspacer V bar. ** U-Values based on CEN size ≤ 3600mm² using 0.7 W/m²K triple glazing with warm edge Swisspacer V bar. All weather test data taken from BS EN 6375-1 (Part of Pas 23) based upon highest performing door configuration. Sound insulation values are Rw reduction values and are based on tests using acoustic glazing.

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