



Innovation, not imitation

The Luminia F82 bi-fold door has been designed with style and performance front of mind. It cleverly combines the intimacy of inside spaces with the freedom of outside living, without ever compromising on performance, safety or security.

And like all AluK aluminium façade systems, it continues to push the industry forward by delivering unrivalled innovation and installation simplicity.

For starters, it delivers an industry-best 1.3 U-value thermal performance for double glazed units and 0.9 U-value for triple glazed.

It boasts contemporary flush hardware, while the elegant slimmer symmetrical sightlines of the frame and panels provide larger glazing area than others on the market, flooding the home with more natural light.

As ever, we believe the highest levels of safety and security should be as standard, not an aspiration. It is why the F82 conforms to the latest British Standards and Building Regulations.

AT A GLANCE:

- **Exceptional wind and water performance –** highest possible water resistance test results
- Floating corner creates a seamless transition between inside and outside – uninterrupted view.
- **> Unique flush pop-up handle -** fully cycle tested for around 80 years reliable use
- > Integrated clip-in cills reduce the sightlines further



Smooth operator Everything about the Luminia F82 has been developed with homeowner demands and ease of use in mind. The system is designed with heavyduty slim stainless-steel rollers as standard and also boasts a unique gearbox for reliable operation. The HD rollers can carry weights of up to 150kg, allowing larger sash sizes up to 1200mm wide by 3000mm high for a truly light-filled space. The unique flush pop-out T-handle provides ease of operation, removing the need for additional unsightly handles and maintaining the minimal, flush aesthetic. The handle has been rigorously cycle tested at 25,000 operations, which equates to approximately 80 years of reliable use. Now, as well as selecting your handles in black, white, silver and grey, you can complement your room design with our new brushed stainless-steel pop-up handle and traffic door handle. THE TOUGHEST HARDWARE Hardware fitted to the doors has been corrosion tested to 480hrs (Grade 5 - EN1670:2007)

Room with a view

Outside space has never been more important and appreciated, and installing bifold doors gives you the opportunity to enjoy your view and create a seamless link between your home and garden. With greater glazing areas and the desirable slimmer sightlines that the F82 is renowned for, you can flood your rooms with more natural light.

The introduction of a new floating corner takes that ability to bring the outside in a step further, offering you uninterrupted views of your garden space with the same smooth operation, total security and unrivalled weather performance that you'd expect from the unique F82.



Safe and secure

To ensure total peace of mind, the F82 has been put through its paces to ensure it conforms to all the latest British Standard and Building Regulations for thermal, security and safety, including PAS24**

For added security, the Luminia F82 features a 5-point multi-locking mechanism with top and bottom bolts on the traffic door.

And for extra safety, magnetic catches that hold the doors in place whilst being operated. As well as an anti-crush system, using gaskets, to prevent fingers getting injured when the doors are closing.





Intelligently simple

We have a passion for innovation at Aluk. The Luminia F82 bi-fold continues the trend. Larger glazing panels, faster fabrication and installation thanks to fewer parts and profiles, while panel size options of up to 3000mm high* provide complete project flexibility.

To speed up fabrication, we've reduced the number of parts and profiles without compromising on the ease of installation. For simplicity, you can fabricate the F82 with just four profiles, helping reduce your stock holding.

Exceptional performance

The F82 has been engineered to deliver outstanding performance thanks to its innovative features:

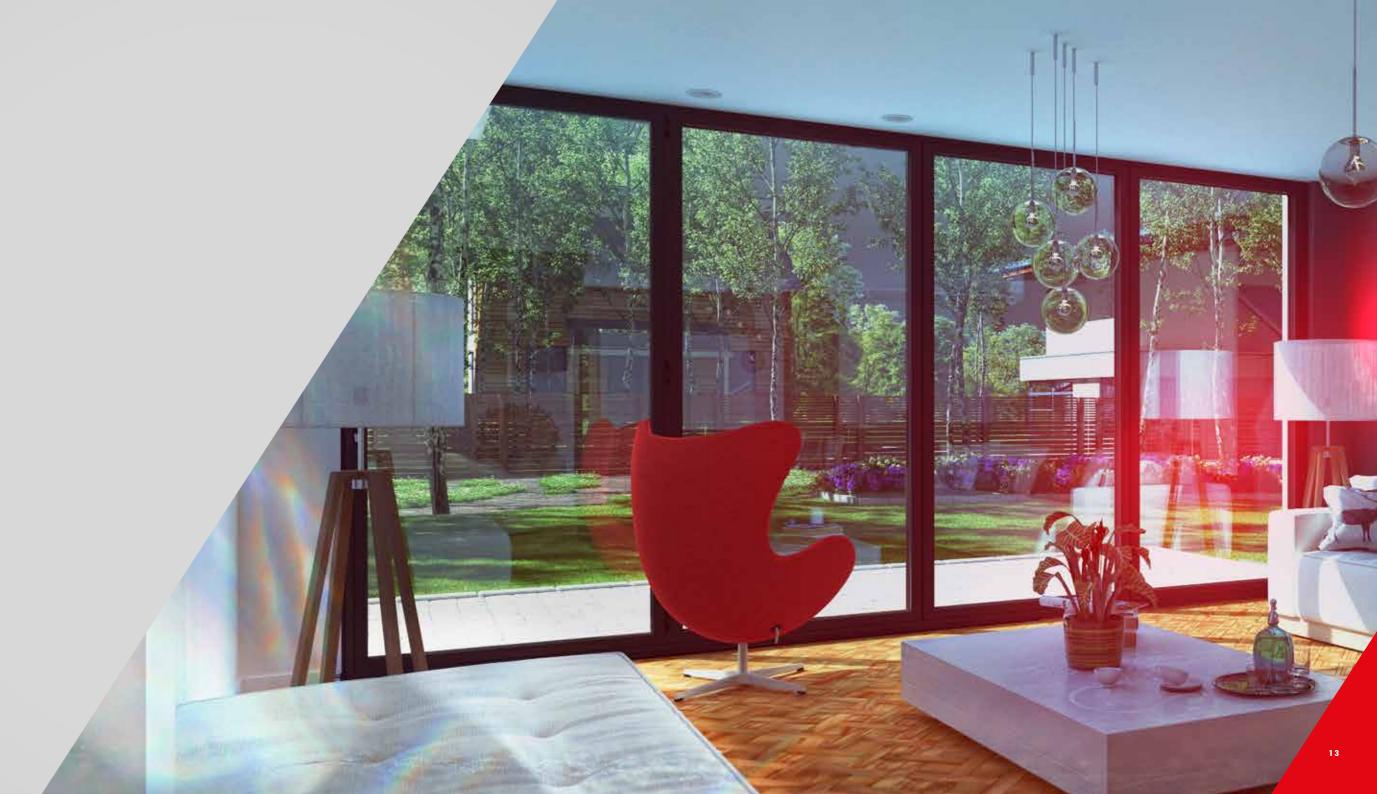
- Unique pop-up handle, cycle tested to 25K operations which equates to around 80 years of reliable use
- > HD bottom rollers for smoother operation
- The jamb and interlock seal provides enhanced wind and water tightness, offering extra protection against extreme weather conditions

Design Flexibility:

- Floating corner achieve a truly seamless outside/ inside design with this exciting new option to the F82 range.
- Integrated cills developed with a new outer frame profile. Reduce the sightlines further by clipping the cills onto either side of the outer frame, rather than sitting on top of the frame with the new integrated cill profile. This new outer frame and integrated cill option presents a cost saving of up to 45% on a standard 3metre bifold.
- Sub cill range position the F82 onto varying widths of constructions using the 225mm, 150mm or 95mm options.
- New 110mm mid rail To compliment the existing 55mm mid rail – now as well as creating panels, you can insert a transom into the door or create solid panels in single and double doors for a uniform aesthetic.

The F82 still offers the same great features for fabricators

- ▶ HD rollers with a 150kg capacity allowing you to make 3600mm wide bifold doors in 3 panes.
- Ability to make single and double doors in the same material, retaining PAS 24 certification.

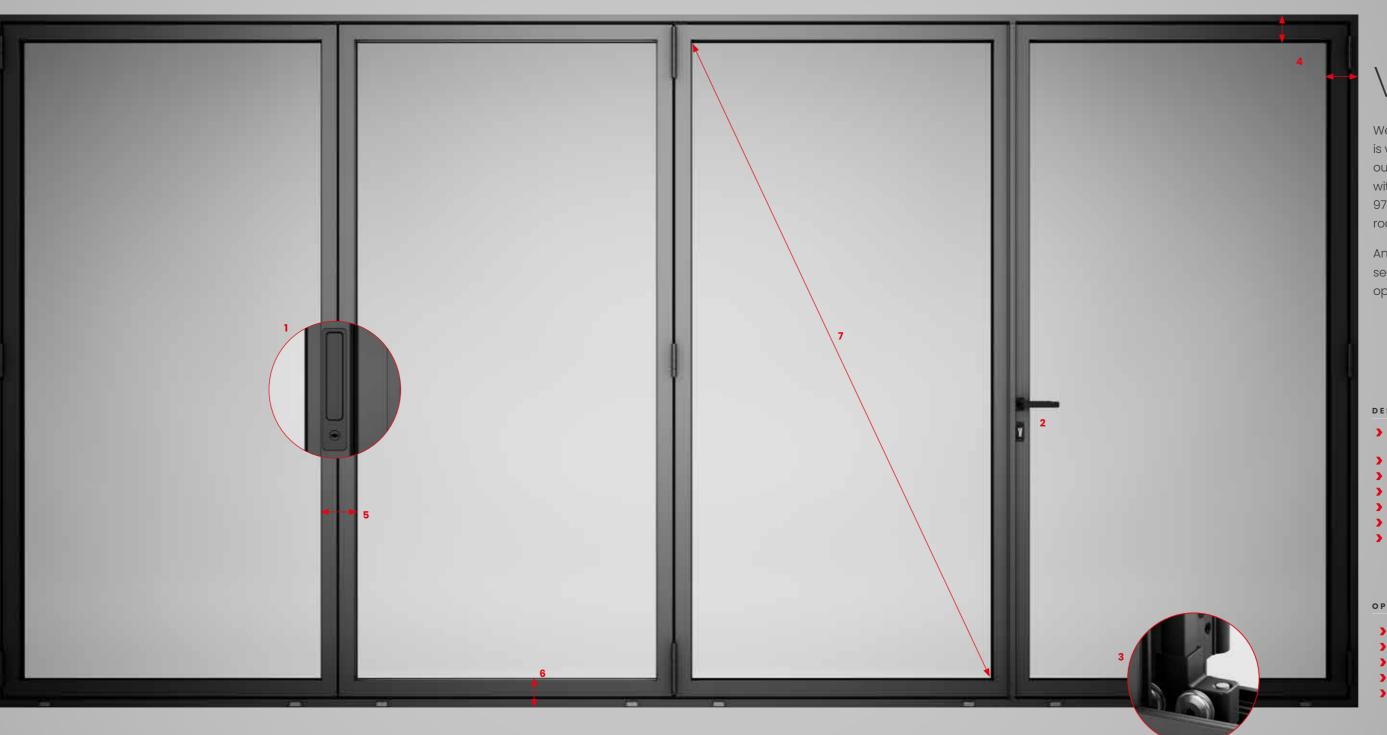


Clear choice

We understand every project is different, which is why the Luminia F82 is available with panels up to 3000mm* and weights of 150Kg. We also offer glazing add-ons and the option for both internal and external glazing.

ERFORMANCE ND ACCREDITATION	OPEN-IN	OPEN-OUT	
·U-value (double glazing) (UG: 1.0 w/m²K)	1.3 W/m²K	1.3 W/m²K	
†U-value (triple glazing) (Ug: 0.5 W/m²K)	0.9 W/m²K	0.9 W/m²K	
Air tightness (Pa) (standard threshold)	Class 4 (600 Pa)	Class 4 (600 Pa)	
Water tightness (Pa) (standard threshold)	Class 9a (600 Pa)	Class E900 (900 Pa)	
Wind load (Pa)	Class 5 (2000 Pa)	B3 (1200 Pa)	
Security	PAS 24	PAS 24	
DESIGN DETAILS			
Max vent weight	150Kg		
Sightline (Head)	97mm		
Sightline (Cill)	97mm		
Sightline (Jamb)		97mm	
Sightline (Interlock)	122mm		
Maximum leaf height	2500mm std > 3000*mm		
Maximum leaf width	1200mm		
SYSTEM FEATURES			
Frame depth	82mm		
Dual colour option	V		
Multi-point locking	→		
Glazing options	Internally beaded		
Glazing thickness	28mm - 44mm		

^{*}The maximum height and panel width for the F82 Folding Sliding Door System are co-dependent and also dictated by the design wind load where the doors are being installed. Based on the site design wind load that the doors are subjected to this will influence the maximum height and width [ber panel] to which the doors can be manufactured.



Visibly different

We understand the desire for slimmer sightlines, which is why the Luminia F82 has been designed with reduced outer frame rebates that are symmetrical. Combined with a 122mm interlock and a frame-to-glass sightline of 97mm, the F82 boasts greater glazing areas flooding the room with more natural light than ever before.

And, with the impressive floating corner option you can seamlessly connect the home and garden for greater open space living.

DESIGN FEATURES

- 1 / Unique flush pop-out handle for ease of operation, fully cycle tested for 80 years reliable use
- > 2 / Unique traffic door handle
- > 3 / Heavy duty compact rollers as standard
- > 4 / Symmetrical head, jamb and cill sight lines of 97mm
- > 5 / 122mm Slimline interlock
- > 6 / New integrated cills for reduced sightlines
- > 7 / Larger glazing area

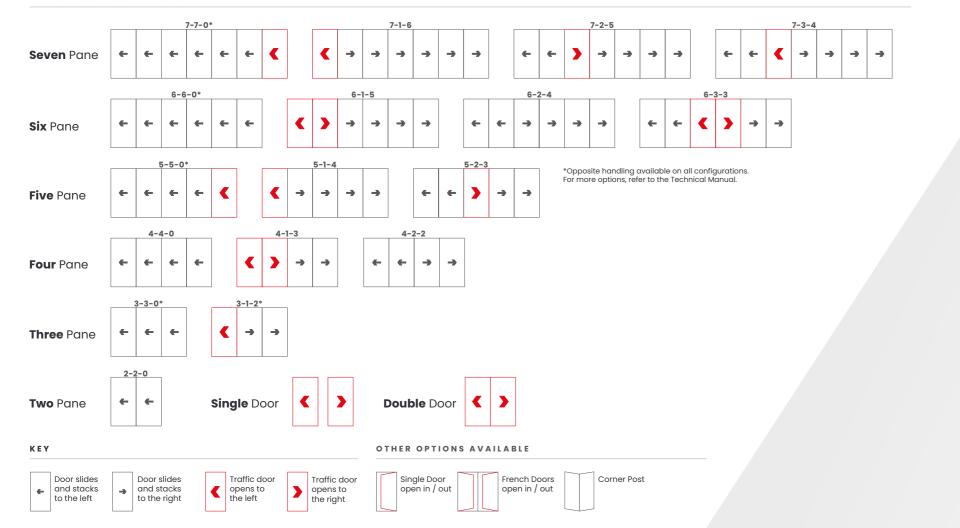
OPTIONS

- Square bead
- > Glazing 28mm 44mm
- > Available in a range of opening configurations
- Available in a range of opening configurations
- Available in a range of single or dual colour and anodised finishes
- > All configurations available open in and open out

Beautifully organised

As with all AluK aluminium system, you'll find an extensive choice of configurations available to choose from. And as ever, all are available as open in and open out for added homeowner choice.

TYPICAL CONFIGURATIONS



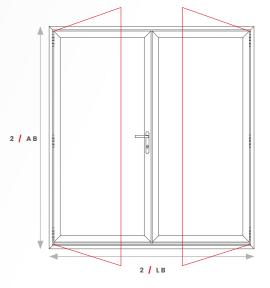
1 / SINGLE DOOR SIZE LIMITS (OPEN IN & OPEN OUT)

LB*		AB*		Max Weight (Kg)
Min	Max	Min	Max	
550	1200	1540	2600	150

2 / DOUBLE DOOR SIZE LIMITS (OPEN IN & OPEN OUT)

	Leaf Dimension				
Max Weight (Kg)	AB*		LB*		
	Max	Min	Max	Min	
150	2500	1540	1200	550	

1 / AB

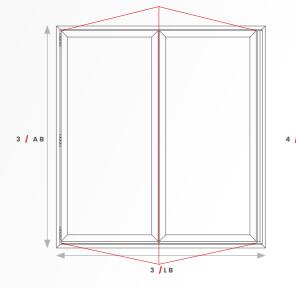


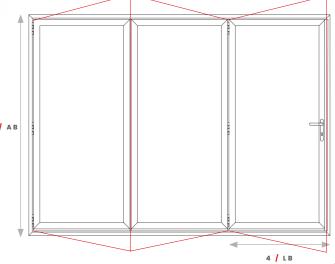
3 / DOOR SIZE LIMITS - NO TRAFFIC DOOR (OPEN IN & OPEN OUT)

	Leaf Dimension				
Max Weight (Kg)	AB*		LB*		
	Max	Min	Мах	Min	
150	2600	1000	1200	700	

4 / DOOR SIZE LIMITS (OPEN IN & OPEN OUT)

	Leaf Dimension				
Max Weight (Kg)	B*	Al	3*	LB	
	Max	Min	Max	Min	
150	2500	1540	1200	550	





Colourful **choices**

If there's one thing architects, specifiers and homeowners all have in common, it's the desire for choice. That's why we offer an extensive range of colours and finishes to bring any project vibrantly alive.

It offers customers the freedom to let their imagination fly while providing installers with the quick turnaround and clear delivery schedules they demand.

So whether it's a standard single or dual colour, or one of the many vibrant RAL Colours available, the tone is set for service excellence.

STANDARD COLOURS

Hipca White	Anthracite Grey
9910HG	7016M
Chocolate Brown	Deep Black
8017M	9005M

STANDARD DUAL COLOURS



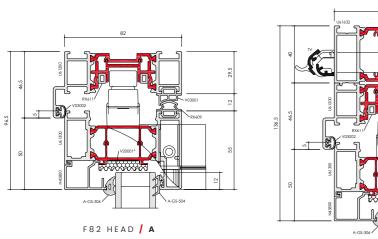
POPULAR RAL COLOURS

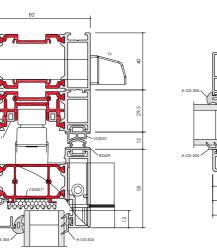
1013М	1015М	7044M	9001M
7034M	1019М	6021M	7032M
3005М	9010M	6003М	7021M

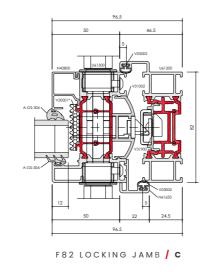




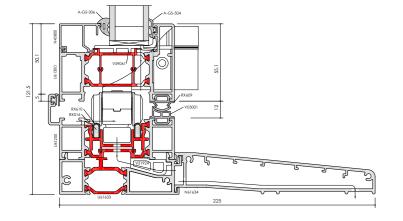
CAD Cross Sections



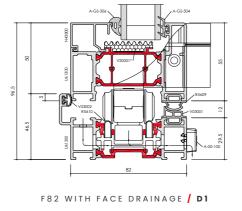




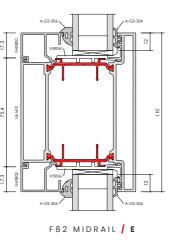
F82 HEAD WITH 40MM ADDON FOR TRICKLE VENT / A1



F82 CILL AND SUBCILL / D



F82 MEETING STYLE / B







The right service – customised, not compromised

At AluK, we understand the challenges of modern building construction. For more than sixty years we have been working around the globe to deliver the finest tailored aluminium façade systems.

As part of AluK International, we have over 2,500 clients worldwide that have different challenges, which is why we offer different solutions wherever your project may be. We don't provide a onesize-fits-all service, we work with you, detailing the

specification your project really needs to make it the best it can be – whilst adopting a 'right first time and on-schedule' attitude.

You will also have the support of a dedicated project consultant team from design through to installation, who will advise on legislation and provide guidance throughout the RIBA Plan of Work.

Expertise, customised.



Aluk GB at a glance







350,000 sq. ft factory space with 500 sq. ft design studio, based in Chepstow



4,000 sq. ft architectural design studio in central London



35,000

per year

orders processed

4,500 tonnesaluminium sold per year
£190M installed value

The capability to deliver







Global leader
in powder coating technology,
including in-house preanodisation



3,000,000 m powder coating completed per year



Marine Grade paint as standard



3 thermal break assembly lines



1,400 tonnesof aluminium profile in stock,
held in the UK



End-to-end supply of our systems managed in-house

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