



alumina

by Liniar

Sleek
Strong
Smooth
Beautiful
Warm

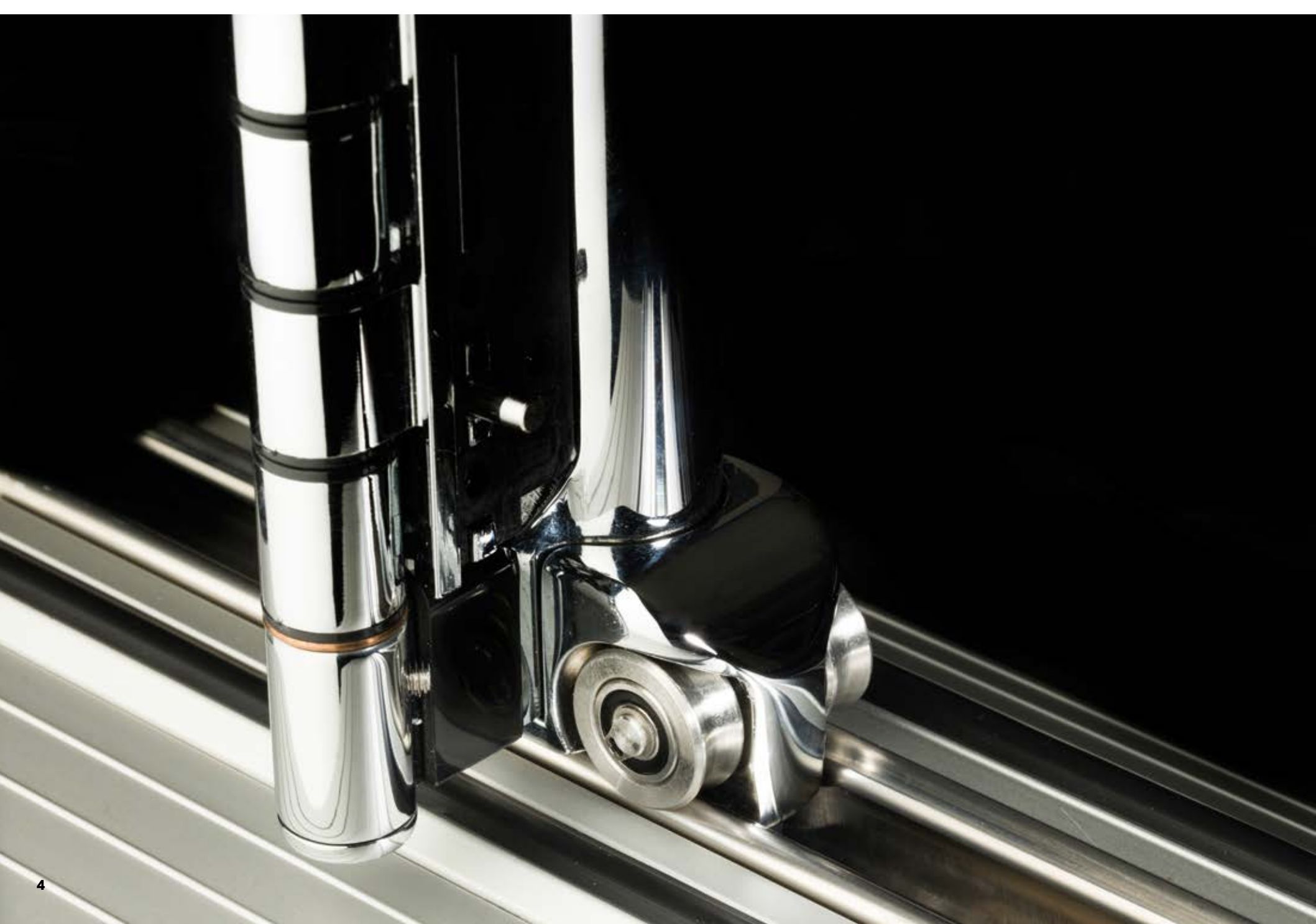
The first four features above could be the benefits of many aluminium bi-folding doors – but the fifth is not usually something associated with aluminium.

Often described as cold to the touch, aluminium is not a natural insulator.

The Alumina range from Liniar
breaks all the rules.







Choosing a bi-folding door

Bi-folding doors add a distinctive style to many types of building. But when you begin the process of selecting a bi-fold door, you'll discover there are many considerations to take into account.

Strength and size

If you'd like large doors with great height and a large expanse of glass, aluminium is considered to be the best material to use.

Thermal performance

Doors with a low U-value are more thermally efficient and can help keep the heat inside your home as well as minimising ongoing energy costs.

Security

Your home is your safe haven – so you'll need a door that meets the highest security standards and accreditation.

Aesthetics

Does the bi-folding door match your other fenestration products, including windows, door frames and conservatory roofs?

Why compromise? Choose Alumina by Linar.

Spanning apertures up to 6.5m wide and 2.5m high, with U-values as low as 1.2, accredited with Secured By Design and the only aluminium bi-fold available in a wide choice of foiled finishes,

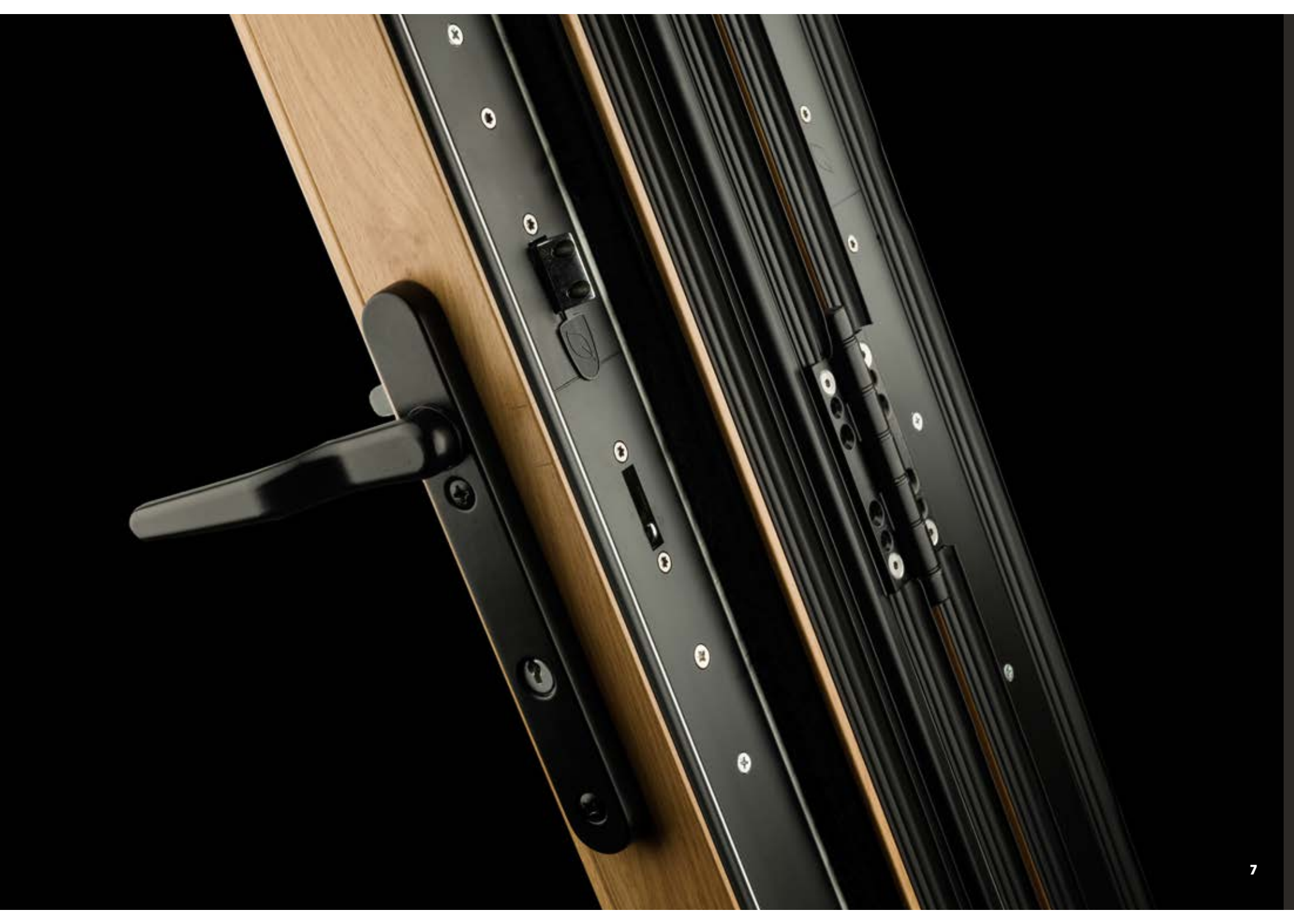
Alumina ticks all the boxes.

Alumina - a new concept

Uniquely designed by the experts at Liniar, the Alumina bi-fold is a 'true' aluminium door - able to span up to 1.2 meters wide per sash and 2.5 metres high, with optional warm-touch foiled exterior and superior U-values - yet manufactured in the same traditional way as other aluminium systems.

Alumina takes all the benefits of an aluminium door and adds extra features to make it the perfect choice where you need strength with size. And as it's designed to perfectly match Liniar's range of thermally efficient PVCu windows, you can mix and match for an overall cost effective installation.





Strength with size

Commercial and heavy-duty applications require greater strength, with wider and taller panes of glass and bigger spans – and aluminium is perfectly placed to meet these requirements.

Alumina by Linar is a true aluminium door, manufactured with standard aluminium machinery. It achieved PAS 24 enhanced security accreditation at the first attempt, and holds Secured By Design status, even with panes spanning up to 1.2 metres wide and 2.5 metres high.



Foiled finishes

Like other aluminium bi-folds, Alumina by Linar can be painted in just about any powder-coated colour you can imagine.

What makes Alumina different is that you can also choose a beautiful woodgrain or flat foiled finish for your doors.

This means if you have Linar PVCu windows in your property, you can choose a perfectly matching style – and the foil offers a ‘warm touch’ feel to your doors. In addition, Alumina is the only fully sculptured (curved) aluminium bi-fold door on the market.

Not only will Alumina doors match the exact colour of your Linar sculptured PVCu windows, they’ll also be the same shape – giving your property a seamless appearance.

Choosing a foiled Alumina bi-fold to match Linar windows assures you of a single point of guarantee - up to 10 years against discolouration, warping or cracking.





Colour options

Alumina doors are supplied as standard in plain white, black or grey (7016) powder coated finishes.

You can also order your doors in a mill finish, allowing you to choose your own personal RAL colour option.

Doors are also available with beautiful matching coloured foils. Liniar's high quality foil range is precision factory fitted and fully guaranteed for 10 years against discolouration, as well as ensuring Alumina bi-folds match perfectly with Liniar PVCu windows, French doors, sliding patio doors, conservatory roofs, soffits and fascias, for a seamless, cost effective and attractive installation.

The colours printed in this brochure are representative only; please ask to see an Alumina foil swatch booklet for the most accurate colour choice and match.



Mill Finish



White RAL Paint (9003)



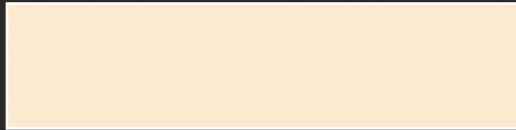
Black RAL Paint (9005)



Grey RAL Paint (7016)



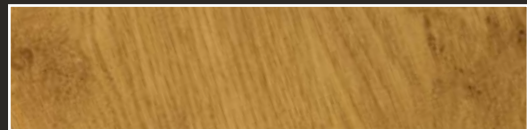
White Foil



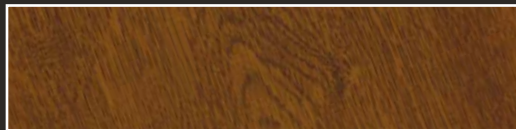
Cream Foil



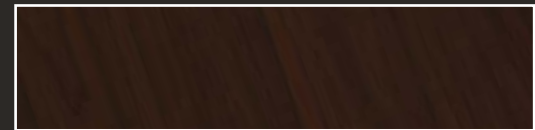
Chartwell Green Foil



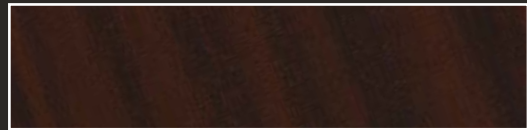
Irish Oak Foil



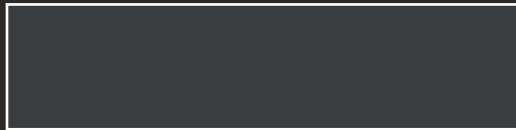
Golden Oak Foil



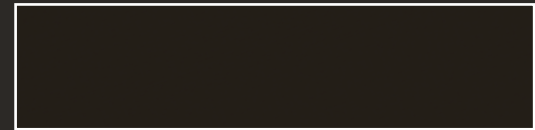
Rosewood Foil



Mahogany Foil



7016 Grey Foil

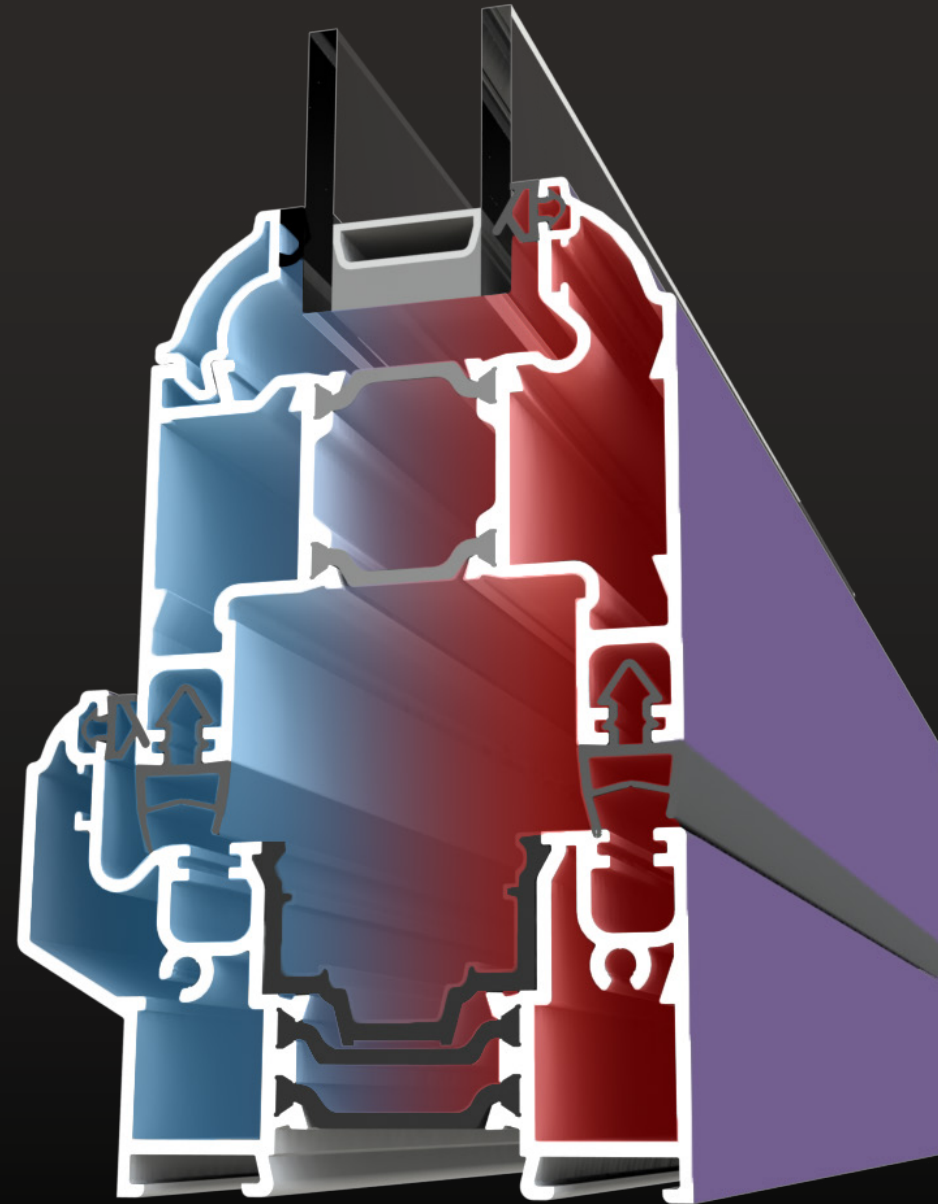
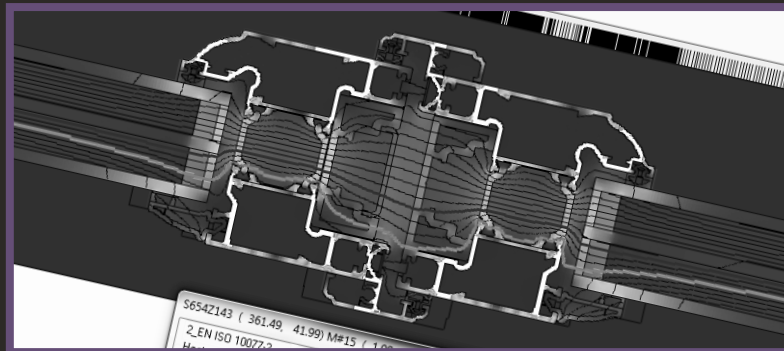


Black Foil

Superior U-values

The Liniar range is renowned for its energy efficiency - Alumina is no different. Pushing the boundaries of thermal performance, the team created a system designed from the ground upwards with tomorrow's thermal performance requirements; a feature not usually compatible with traditional aluminium windows or doors.

With 28mm double glazed and 36mm or 40mm triple glazed options available, Alumina offers "true" U-values as low as $1.2 \text{ W/m}^2\text{K}$, thanks to its innovative thermal lock and large thermal breaks.



One piece lock

With Alumina, you can be sure of the highest security. Its suite of hardware follows the same principles as the Liniar ModLok™ bi-fold system, including multiple bi-directional locking points, shootbolts that secure firmly into the track, built-in anti-lift features and anti-bump cylinders for additional peace of mind.

Alumina also comes with a combined lock and thermal insert, or barrier, giving it its low U-values and high energy efficiency.

Designed from scratch by the Liniar team, the innovative lock combines the ultimate specification of security with a high strength engineering polymer lock body – so the lock itself acts as a thermal break, boosting the door's thermal performance compared to a traditional aluminium door.

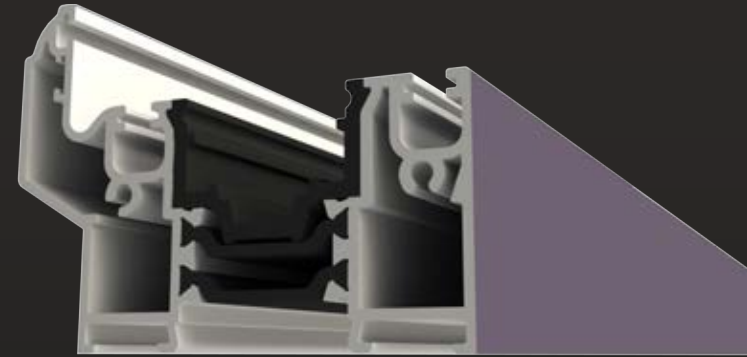
Alumina's one piece lock gives clean lines and an unrivalled lock appearance, meaning Alumina doors are just as beautiful when they are in operation as when they are closed.



Low threshold

All Alumina bi-folding doors are available with three threshold options, for the ultimate choice.

- The rebated aluminium frame runs seamlessly around to form a weathertight threshold, and the doors are supplied with this as standard.
- Liniar's optional aluminium low threshold requires no trench excavation to install, and is just 23.5mm at its highest point.
- Add an optional tray to the low threshold to make the bi-fold doors Part M compliant for wheelchair access and family living.



Rebated aluminium frame



Thermally broken low threshold



Thermally broken Part M low threshold

Smooth operation

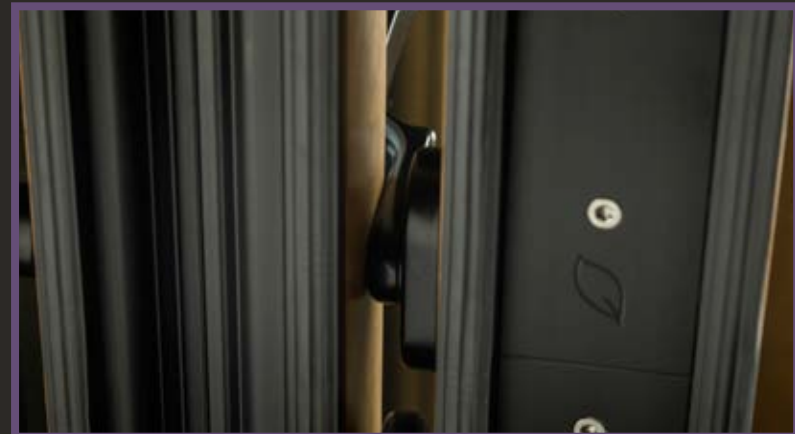
Easy to open and close, Alumina bi-folds move smoothly and effortlessly along a sleek stainless steel track.

And all Alumina bi-folding doors are 'bottom rolling', not top-hung – meaning no extra stresses are placed on your building's lintel.



Attention to detail

With innovative features, including folding keys, ergonomic handles, hidden fixings for hinges and discreet magnets, the attention to detail is what makes an Alumina bi-folding door 'best in class'. And as the built-in wheels roll on top of the track, it's harder for dirt and debris to build up - making them easy to keep clean and operate at their best.







Configurations

The Alumina bi-folding door range has a wide variety of options when it comes to sizes and opening configurations – available from 2 panes wide up to 7 panes.

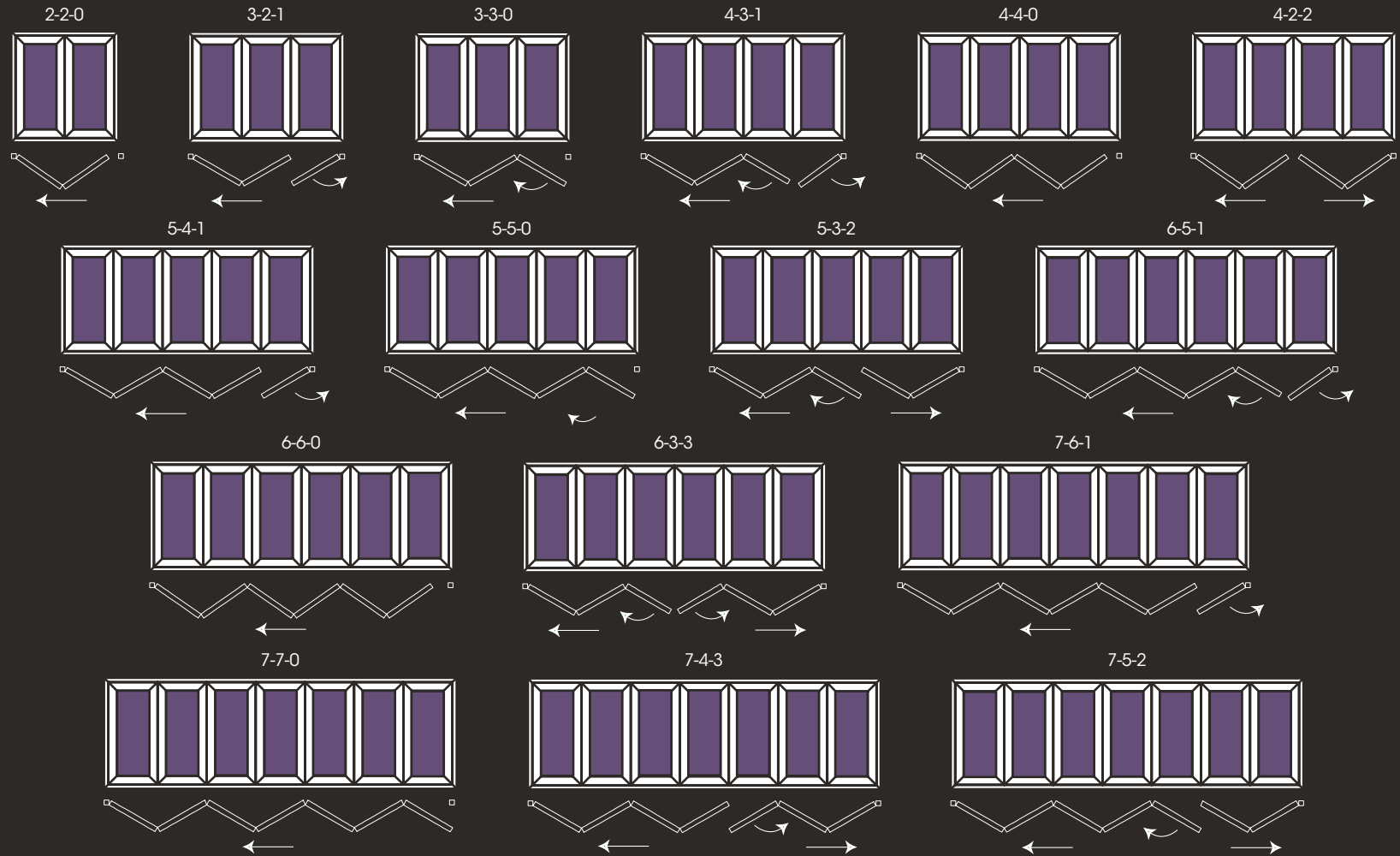
Our door pane numbering works like this:

- The first number shows the number of doors in total within the frame.
- The second number shows the majority of doors folding back to either left or right.
- The third number shows the balance of doors opening in the opposite direction.

So, a 4-3-1 bi-folding door would be four panes wide, with three doors folding back to one side of the frame, and a single opening door on the other.

To see all opening/closing sequences visit our website at:
www.liniaar.co.uk/bifoldopeningclosing







PA THERMAL LOCK

About Alumina

Alumina bi-fold doors have been designed and developed by the same team of experts as the award-winning Liniar window system. With a well-earned reputation in the UK for innovation, the team created the lead-free Liniar system from scratch in 2008 using the very latest high-tech thinking, processes and machinery.

The Liniar design team is constantly pushing the boundaries of product innovation, finding clever solutions to challenges that others have failed to address.

They were the first to launch a bespoke PVCu bi-folding door system with associated patented hardware and have more than 500 years of industry experience between them.

Continued investment in infrastructure, technology, machinery and a great team of people has helped Liniar to become one of

the market leading PVCu window systems with a customer base of specialist fabricators all over the UK.

Alumina is the latest development from this ground-breaking company and team, and heralds the arrival of a new breed of bi-folding doors.



Alumina by Liniar
Flamstead House
Denby Hall Business Park
Denby
Derbyshire
DE5 8JX

Tel: 01332 883900
Fax: 01332 883901
Email: sales@liniar.co.uk

www.alumina.liniar.co.uk