TERMOPANE WINDOWS

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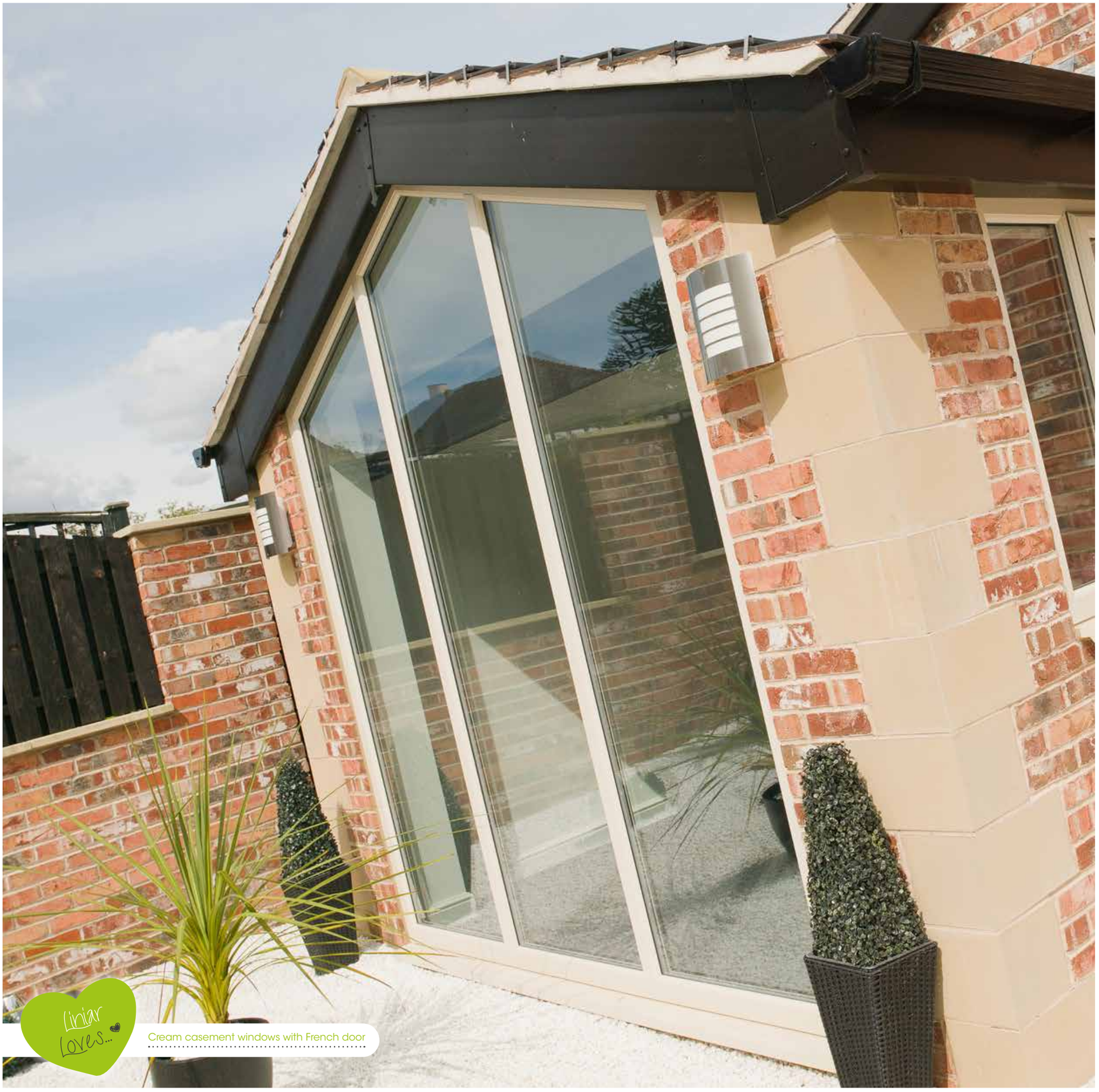
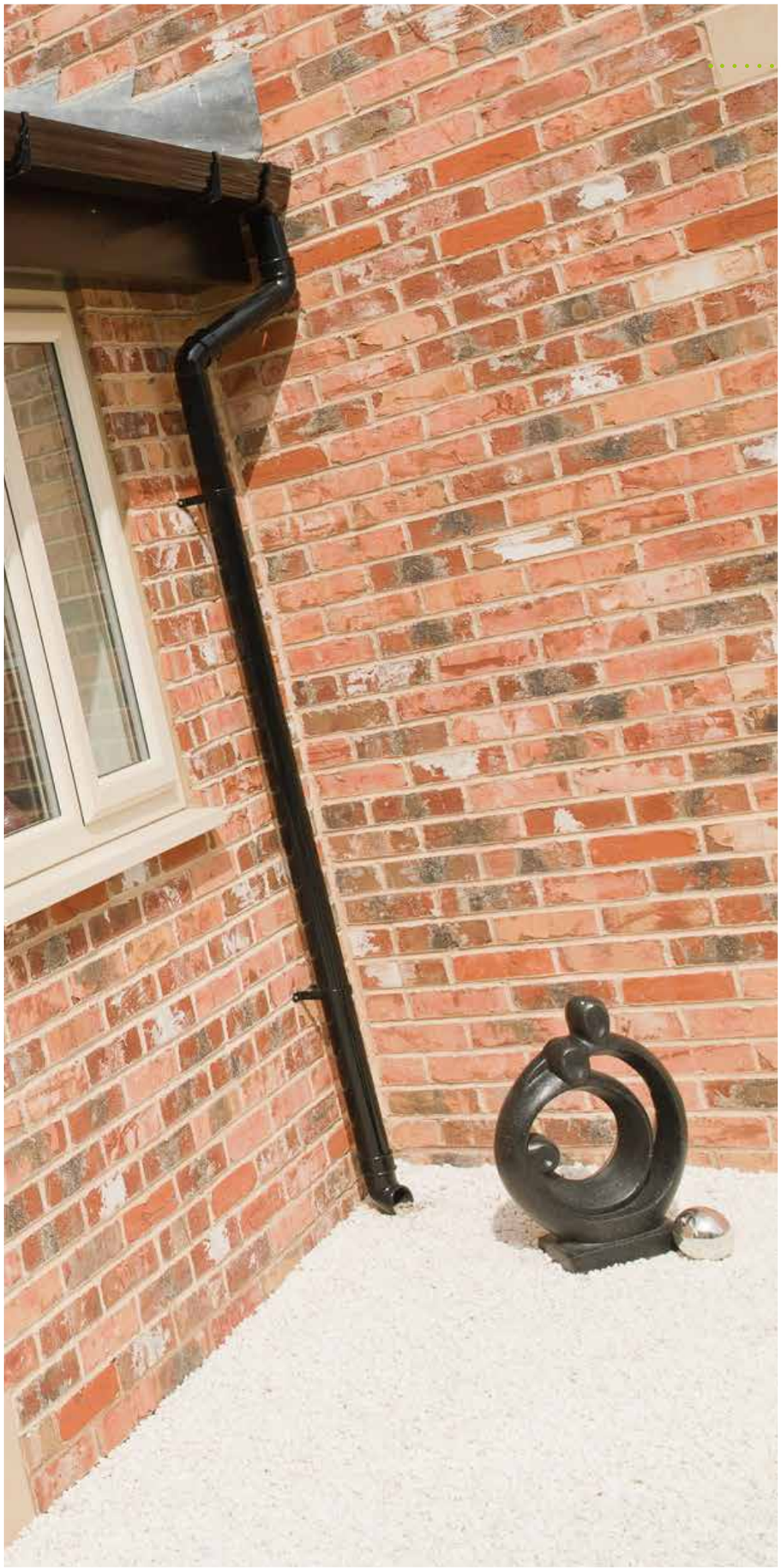
Love your home... Love Liniar

Liniar



Liniar Loves...

Cream casement windows with French door



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Designed for saving energy

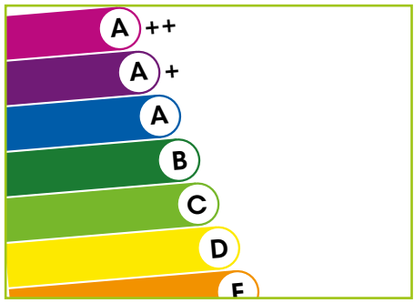
When you choose Liniar, not only are you assured of a high quality product, you'll be taking advantage of the most technically advanced range available in the UK.

PVCu windows may look similar – but it's the bits you don't see, tucked away inside the frames, that make a huge difference to how the windows perform, and how much energy they save – or waste – over their life cycle.

First introduced to the UK in the early 1980s, PVCu (or UPVC as they were known then) windows were unattractive and bulky – and only available in white. Being more cost effective to produce than alternative materials, they were soon used extensively in new buildings all over the country.

Most other PVCu window systems have been updated since then – but Liniar is the only range to have been designed completely from scratch combining extensive industry experience with the most modern window technology.

Launched in 2008, Liniar frames are not only beautifully slim and available in a huge choice of styles, colours and finishes – they contain a huge number of hidden features to make them the most energy efficient frames you can choose.



Safe and secure

Liniar windows are fitted with high security multi-point locking as standard and are independently tested to the requirements of PAS 24 and Secured by Design.

Energy Efficient

With unique multi-chambered PVCu profile, Liniar windows can achieve the very latest A++ energy rating, helping retain heat within your property.

Fully tested

Liniar products are put through exhaustive testing processes to ensure they are robust, durable and built to last.

Eco-friendly

Each PVCu product in the Liniar range is made from lead-free, energy efficient, recyclable PVCu, making it a sustainable choice.

Made in Britain

The Liniar range is designed, tooled, extruded and tested at an award-winning, purpose-built, state-of-the-art factory in Derbyshire.

Low maintenance

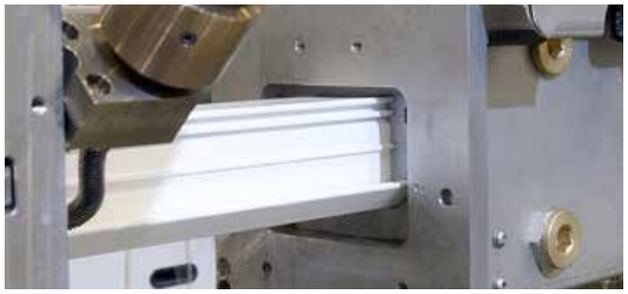
Liniar products won't rot, rust, or require painting - just an occasional clean with warm soapy water, even with our foiled colours.

Window supply chain

There are four main steps in the process of producing a PVCu window in the UK.

1. Design

Each product design is painstakingly crafted and created by the systems house (Liniar), using the latest software and 3D print technology, then tested before the manufacturing process can commence. Unique designs are patented to ensure the innovation is protected and only Liniar customers benefit from the investment and effort that goes into designing our products.



2. Extrusion

The systems house also manufactures the profile, or the PVCu parts of the window, through a process called extrusion. At Liniar's extrusion plant, which features the biggest PVCu mixing plant in Europe, raw materials are heated and squeezed through shaped dies, then cooled as they come out – forming perfect lengths of the correct profile for each piece of the window system.

3. Fabrication

The different lengths of PVCu profile, together with other components needed to make the finished product, are ordered by and shipped to a specialist window fabricator. The fabricator cuts and welds the window together using Liniar's strict design specifications. Glazing units are added, together with hardware such as hinges and handles, and accessories such as astragal bars, resulting in a finished window.

4. Installation

Some fabricators also offer an installation service; others sell windows and doors onto specialist installers to fit into your home. You should always ensure your window fitter has a card demonstrating his Minimum Technical Competency, or is a Corgi Fenestration registered installer – this offers reassurance that your installer has been properly trained.

About Liniar

The most up-to-date system on the market.

Liniar was created by bringing together some of the most knowledgeable and forward thinking designers and experts in the window industry – with more than 500 years of experience between them.

Liniar is an award-winning Derbyshire firm, whose parent company Quanex Building products is listed on the New York Stock Exchange.

Continued investment in infrastructure, technology, machinery and a great team of people has helped Liniar to become one of the UK's market leading window systems with a customer base of specialist fabricators, all creating beautiful products to supply to installers and homeowners.

The design team behind the Liniar brand is constantly pushing the boundaries of product innovation, with a focus on research, many new products in development and a string of patents and Registered Designs. As a result, Liniar has developed a well-earned reputation for innovation.

By being agile and responsive to customer feedback, Liniar has developed an impressive portfolio of products. The range spans not only windows, doors and roofs, but lots of clever design ideas, such as bi-folding doors to give your home that real 'wow' factor. Liniar's range of trims, fascias and soffits also ensures a perfect finish with fully matching colours, and a recycled outdoor range provides matching, low maintenance products for landscapers, developers and homeowners.

Focus on Sustainability

Liniar is committed to the protection of the planet for future generations. That's why Liniar has worked for nearly three decades to ensure no PVCu waste is sent to landfill. Liniar creates fully or partially recycled products, designs energy-efficient and eco-friendly products and continually works towards the smallest carbon footprint possible.

The environmental friendliness and energy efficiency of Liniar's windows, doors and conservatories set the standard for the rest of the industry. Not only can Liniar products save homeowners money on their energy bills, they're also manufactured using the smallest carbon footprint possible.

Liniar works alongside the Environment Agency to shrink its carbon footprint. So far during this agreement it has surpassed environmental targets by 54% and achieved ISO14001 accreditation for excellence in Environmental Management.

Liniar's Sustainability Focus:

- Operational waste-neutral production facility.
- Recycling scrap from production into new fully or partially-recycled outdoor products since 1994.
- Underground water recycling facility recycles nearly 3 billion litres of water per year.
- Incandescent bulbs have been replaced with low-energy LED bulbs across the entire site.
- Heating across the site requires no fossil fuels or electricity.
- Constant investment in energy-efficient machinery, methods and transportation.

How Liniar PVCu profiles work

PVCu is a natural insulator, so it's one of the most energy efficient materials for a window frame. Inside a Liniar frame (or profile), multiple chambers act as barriers, making it difficult for the heat inside your home to be transferred through and escape outside.

The drawings opposite show the inside of a Liniar standard, an EnergyPlus frame and an EnergyPlus90 frame, the colours representing heat and cold – with red symbolising the heat from your home and blue the cold air coming from the outside.

Patented designs

Liniar has patented a number of additional features that make its frames more energy efficient.

Glazing

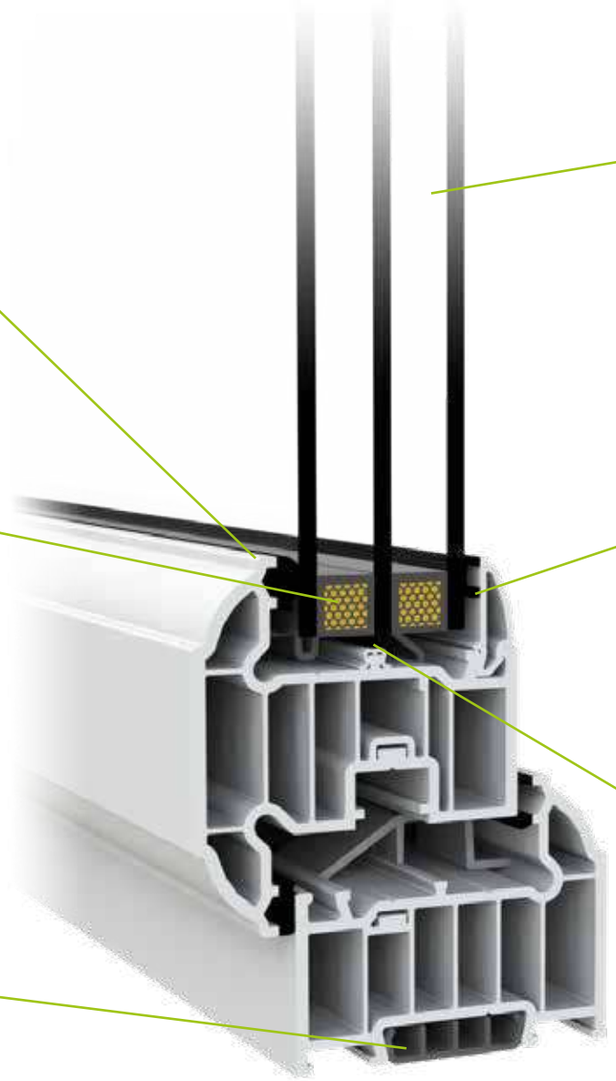
Liniar profiles are able to accept either double or triple glazing, depending on your requirements.

Spacer bars

Warm edge spacer bars can be selected, separating each glazed panel for higher energy efficiency.

Bubble gasket

Liniar's patented 'bubble' gasket is co-extruded alongside the frame itself – so no heat loss or leaks.



Thermal dam

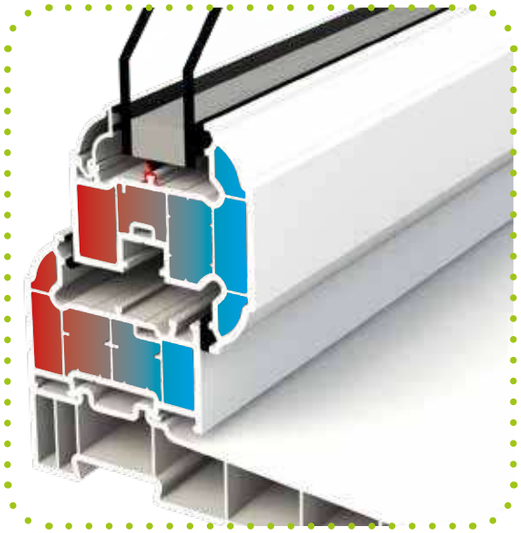
The patented thermal dam creates a multi-chamber thermal barrier at the frame's outer edge.

Glazing flipper

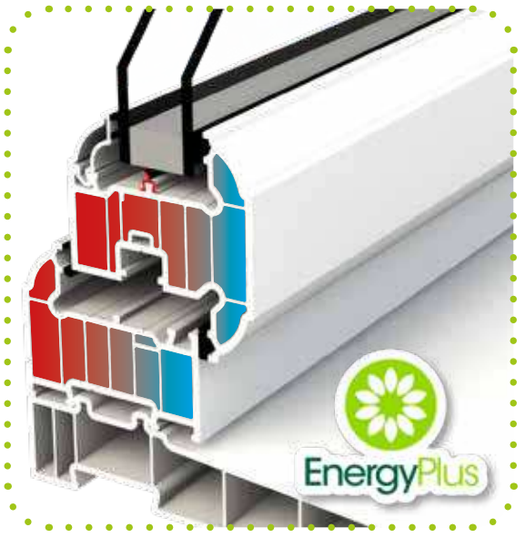
Liniar's unique glazing flipper creates a thermal barrier to seal the perimeter keeping the cold out.

The result is a supremely energy efficient glazed product, capable of achieving the highest possible Windows Energy Rating of A++ or a U-value as low as 0.5 W/m²K with quad glazing*. Ask your Liniar fabricator or installer for more information, or use the Liniar WER Calculator at **www.liniar.co.uk/WER-calculator** to find out all the different options available.

*EnergyPlus90 rating



Standard



EnergyPlus

EnergyPlus90

Profile comparision

Why pay to heat your home and lose up to 20% of the heat through your windows and doors?

Liniar PVCu window and door profiles are available in three formats – all designed to be extremely energy efficient.

- Standard – 70mm front to back, 4 symmetrical chambers, achieving U-values as low as 1.2 W/m²K
- EnergyPlus – 70mm front to back, 6 symmetrical chambers, achieving U-values as low as 0.8 W/m²K
- EnergyPlus90 – 90mm front to back, 9 symmetrical chambers, achieving U-values as low as 0.5 W/m²K - PassivHaus compliant.

Both standard and EnergyPlus profiles are completely interchangeable and look exactly the same from the exterior – the only difference you'll see as your windows are fitted is the protective tape, which will feature the EnergyPlus logo if you've ordered 6-chamber windows.

Liniar standard profile offers a cost effective option with energy efficiency that still beats most similar types of PVCu window.

Liniar EnergyPlus profiles can achieve an A++ rating without the need for expensive low-iron glass on the outer pane of glass or the need for costly thermal inserts, making it a cost effective choice overall.

Lauched in 2018, EnergyPlus90 is a 90mm window system that looks and acts as a 70mm system - but which is the first PVCu window in the UK to achieve the exacting Passive House standard, for the highest possible thermal efficiency. Available from selected fabricators nationwide.

Both standard and EnergyPlus profiles are available in either chamfered (bevelled) or sculptured (curved) styles, depending on the product, whilst EnergyPlus90 comes in chamfered only. Please see individual product pages for more details.

Security and accreditations

The Liniar system has been designed to maximise energy efficiency without compromising security. This is backed up by the ongoing security testing of Liniar products, together with third party accreditation where applicable.

ModLok™

Developed by Liniar in conjunction with the world's leading lock manufacturers, the revolutionary patented ModLok™ *(patent pending: 1306594.1)* technology is built into Liniar's bi-folding and patio door systems. ModLok™ is a highly innovative combined reinforcing and locking mechanism, bringing additional strength and rigidity to the doors and enabling wider configurations of sliding and folding doors.

With hook bolts, shootbolts, anti-lift technology, anti-bump cylinders and optional anti-snap cylinders, ModLok™ products are extremely secure. Even hinge fixings are hidden inside the doors so they can't be unscrewed from the outside. Combining frame reinforcing within bi-fold and patio doors with a high security locking mechanism, Liniar's ModLok™ offers the structural benefits of an aluminium door.

See page 41-49 for more details.

Alumina by Liniar

The Alumina bi-fold system is manufactured from aluminium and offers similar high security features to ModLok™. The addition of an innovative high density polymer *(patent pending: 1522501.4.1)* lock ensures no heat is lost through this vital component. Unlike other aluminium doors, the lock itself creates a thermal break to help the Alumina bi-fold achieve low U-values.

See page 50-51 for more details.

Secured by Design

Liniar Secured by Design products are designed with exceptional security features and confirmed as meeting the requirements of the Association of Chief Police Officers.

PAS 24:2012

The British Standard for enhanced security performance, PAS 24 testing also includes testing for air and water tightness and wind loading to BS 6375.

BBA Approval

Liniar's whole window system is BBA (British Board of Agrément) Approved, verifying an impartial and unbiased review on the performance of products.

BS EN 12608:2003

Holding the British Standard for quality, consistency and performance required for PVCu extruded hollow profiles, Liniar's systems are tested to ensure continued compliance.

BuildCheck

An independent testing house conforming to British standards and accredited by UKAS and the BFRC. Liniar's ModLok™ bi-fold door was first to pass its Folding/Sliding Door Scheme.

BS EN ISO 9001 (Quality)

Liniar's factory has BS EN ISO 9001:2008 accreditation for quality management systems - proving its strong customer focus and continuous improvement cycle.

BS EN 14001 (Environmental)

Liniar has been certified for the latest BSI (British Standards Institute) ISO 14001 Environmental Management System (EMS), thanks to a continued focus on sustainability.

BS EN 6375

Parts 1, 2 & 3 relate to the requirements of windows and doors, including weather testing inclusive of wind loading, functionality testing and cyclic testing.

CORGI Fenestration

The most recognised consumer mark in history, Liniar was the first systems company to achieve registration to the scheme - assuring the highest quality products, processes and business practices.

Before choosing windows and doors ensure they comply with the latest building regulations.
See www.liniar.co.uk/building-regulations for more information.

The Liniar range

Casement Window

The most popular choice, casement windows may include top or side opening sashes, arched tops, mock sash horns or astragal bars.

Tilt & Turn Window

Perfect as a fire escape, the 'open in' style offers great options for cleaning from within as well as maximising ventilation.

French Window

With both sashes opening out from the centre, Liniar French windows have a dummy centre mullion, resulting in a fully open aperture.

Flush Sash Window

Offering both a sleek, contemporary appearance or the realism of a traditional timber window – with 21st century thermal benefits.

Reversible Window

Rotating a full 180°, this window style is ideal for high-rise applications and hard to reach areas as it can be safely cleaned from the inside.

Resurgence Window

A new concept in PVCu windows, Resurgence offers a unique timber replica design with double-rebated weatherproof seals.

Bi-fold Window

Popular in conservatories and orangeries, bi-folding windows fold back to one side of the opening for uninterrupted views.

Bay/Bow Window

A great way to bring more light into your home, bay or bow windows can be made from standard or flush sash casements.

Residential Door

Liniar's PVCu residential doors are available as opening in or opening out, designed to match perfectly with the window range.

Composite Door

Offers up to six times the insulation of a timber door, combining the appearance of timber with superb thermal performance.

For the full range of colours, styles and options available, contact your Liniar stockist.

Stable Door

A classic and charming alternative to a standard door, the two halves of the door can be opened independently – ideal for families.

French Door

Liniar's stunning French doors come with the same high specification and colour choices as our window range.

Patio Door

Featuring a unique 'air glide' system, Liniar's sliding patio door is ergonomically designed with four patents.

Standard Bi-Fold

The first fully bespoke PVCu bi-fold doors to be engineered, designed and manufactured in the UK – and still the best.

ModLok Bi-Fold

Featuring patented ModLok™ exoskeleton with supreme thermal efficiency, can span to 7 panes wide. Available as bi-fold, residential and French doors.

Alumina Doors

Combining a 'true' aluminium door-set with a thermally efficient locking mechanism. Available as bi-fold, residential and French doors.

Conservatory Roof

Available in a choice of 5 shapes, the Liniar roof system features patented innovations and matches perfectly with Liniar windows and doors.

Elevate Lantern Roof

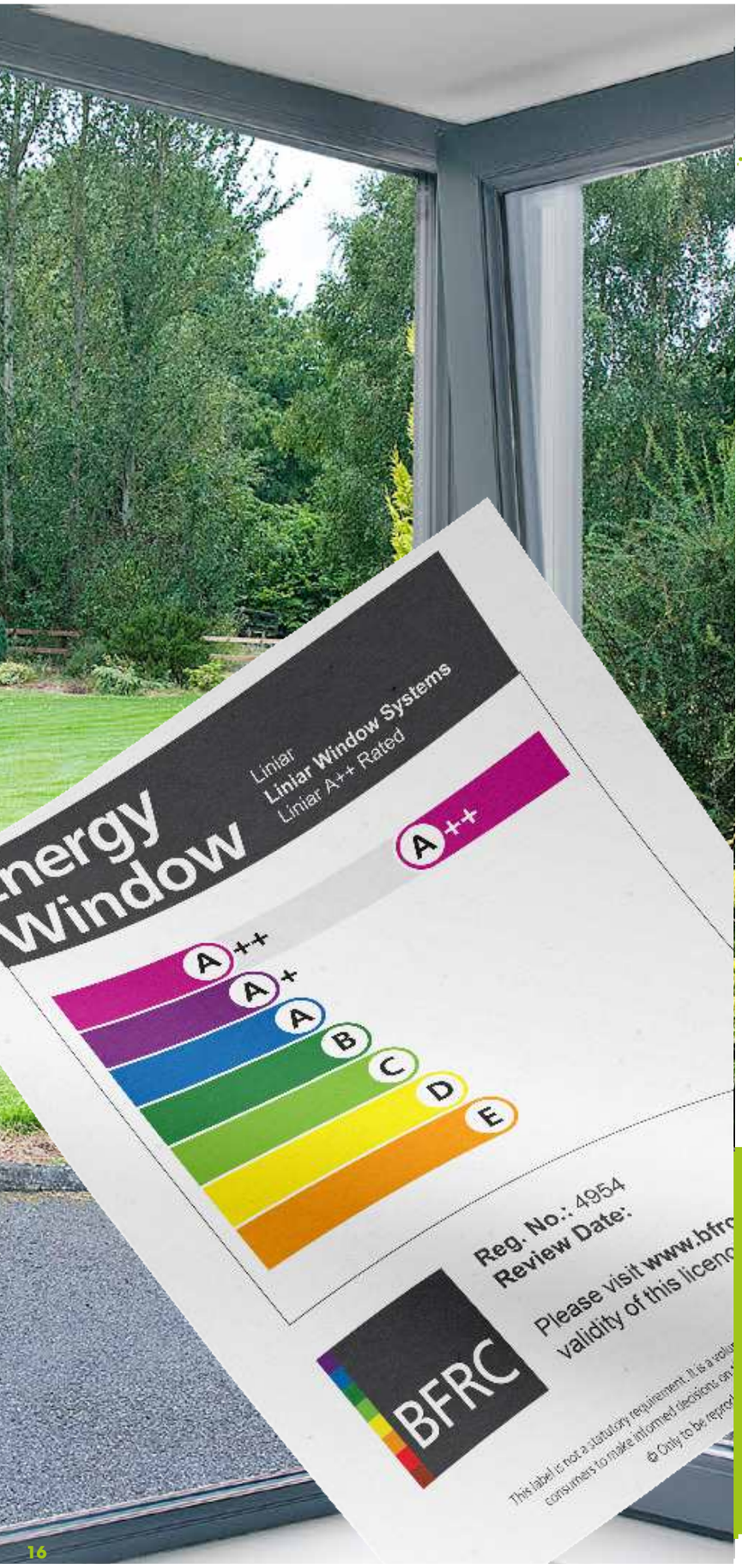
Adding light to flat-roof extensions, Elevate features slim sightlines and a sleek transition of roof bars for unobstructed views.

Roofline

Liniar's soffits, fascias, trims and cladding offer a perfectly matching solution to any installation, in a wide range of colours and finishes.

Outdoor Range

Liniar's ranges of PVCu fencing, decking and piling products offer a high quality, eco-friendly, low-maintenance option for landscaping.



Window Energy Ratings

Up to 20% of your home's heat can be lost through your windows.

That's why it's important to make sure your new windows are as energy efficient as possible

The Window Energy Ratings scale is designed by the British Fenestration Ratings Council (BFRC) to measure the thermal performance of windows, and enables different windows to be compared on a scale that runs from A++ down to E.

Your windows may be supplied with a document to confirm how efficient they are – and the higher the rating, the more heat they'll keep inside your property.

The BFRC rating indicates how well a product will:

- help you contain and conserve heat within your property when it's cold outside
- keep out the elements
- resist condensation on the inside of the window
- contribute to improved sound insulation.

Liniar's EnergyPlus90 window system is the first in the UK to achieve Passive House standard, together with noise reduction to 42 decibels

Liniar helps generate energy for eco-house project

A house featured on the BBC programme 'The House that £100k Built' was designed with Liniar EnergyPlus windows, due to their incredible thermal efficiency. U-values of 0.8W/m²K were achieved, with the house actually generating more electricity than its owners consume.

You can read the full story on the Liniar website at www.liniar.co.uk/case-studies.

The Liniar window range

Don't compromise between security and energy efficiency – choose Liniar.

The Liniar 70mm window system was created from scratch, building in innovative design features intended to reshape the accepted standards for PVCu windows.
Multi-chambered frame technology means Liniar windows can achieve the highest energy ratings of A++ whilst at the same time attaining Secured by Design status. Standard 4-chamber, EnergyPlus 6-chamber and EnergyPlus90 9-chamber frames all deliver supreme thermal efficiency.

Liniar window styles are available in a choice of sculptured (curved) or chamfered (bevelled) frames and can be manufactured with either 28mm double or 36mm triple glazing. A huge range of colours and finishes means you can personalise your windows to your own requirements.

Why choose Liniar windows?

- Designed from scratch to achieve the pinnacle of thermal performance.
- Engineered with built-in security features and fully tested.
- Backed with quality assurance and accreditation for peace of mind.
- 100% lead-free, fully recyclable and fully guaranteed.

For more information visit www.liniar.co.uk/windows

Casement windows

Still the most popular choice for homes all over the UK, Liniar casement windows offer total versatility and either classic or contemporary style.

This traditional British window style offers slim sight lines to let in maximum light. It's available in a wide choice of configurations, including top or side hung windows, so you can personalise each window to your requirements. Adding moulded sash horns gives Liniar casement windows the appearance of traditional vertical sliders – or for additional character you can add astragal or Georgian bars to your windows.

You could also add arched tops, coloured or bevelled glass, and there's a wide range of colours and finishes to choose from. With matching cills and either traditional or contemporary handles, the choices are almost endless. Liniar's patented bubble gasket is used in all products and delivers a continuous seal – even in the corners – resulting in draught-free, weather proof and leak-free windows, all with high security features.

Your installer will be able to advise you on the options available, or visit the Liniar website at www.liniar.co.uk/windows/casement to see the stocked colours and find out more about Liniar casement windows.

Options at a glance:

- Choose from standard, EnergyPlus or EnergyPlus90 frames
- Sculptured (curved) or chamfered (bevelled)
- Add Georgian bars and/or patterned glass
- Wide choice of coloured and foiled frames
- Wide choice of handle and hinge options.

White mock horn sash casement windows

Flush sash windows

Sleek, flush and thermally efficient – Liniar's original flush sash range delivers a window with the realism of a traditional timber window.

For many property owners, PVCu windows aren't an option due to planning or environmental restrictions. The Liniar flush sash range changes the rules, delivering realistic traditional-looking windows combined with 21st Century thermal benefits. As the name suggests, the sash fits flush into the frame on all external faces of the window, giving it a distinctive, sleek appearance that's also ideal for more contemporary properties.

With the inside of the sash beautifully sculptured, woodgrain effect foils can be factory fitted for an authentic timber façade, or you can choose flat foils for a modern effect. You could even try different colours on the sash and outer frame for a totally personalised look. The flush sash delivers A+ energy ratings and U-values as low as 1.2 W/m²K. Many delighted property owners have won over planning restrictions where PVCu had formerly seemed impossible, thanks to the Liniar flush sash.

Your installer will be able to advise you on the choices available, or you can visit the Liniar website at www.liniar.co.uk/windows/flush-sash to see the stocked colour options and to find out more.

Options at a glance:

- EnergyPlus 6-chamber outer frame & 4-chamber sash
- Sculptured (curved) edges
- Add Geogian bars and/or patterned glass
- Wide choice of coloured and foiled frames
- Wide choice of handle and hinge options.

Also see Resurgence flush sash windows overleaf for double-rebated weather performance in a timber alternative style.

White foiled flush sash bay window

Liniar Loves...

Resurgence windows

A stunning 'timber alternative window', Resurgence takes the flush sash style to new levels of design, elegance and thermal efficiency.

The UK's first PVCu double-rebated flush sash window, Resurgence offers the ideal solution for both modern and character properties.

Resurgence offers unrivalled energy efficiency with a Window Energy Rating (WER) of A++. Liniar's double-rebated, co-extruded seal delivers a weather and draught-proof installation without the tell-tale brush piles often seen in the shadow gap of other PVCu flush sash windows. All Resurgence seals are conveniently out of sight for a clean, beautifully sleek finish.

When Resurgence is installed with a woodgrain foiled finish, it's difficult to distinguish from a traditional timber window. Thanks to a comprehensive lamination process, Resurgence is foiled on interior surfaces too, providing a realistic finish even when the window is open.

Personalisation and Resurgence

Resurgence is available in a stunning range of colours, including woodgrain foils such as the popular Anthracite or Agate Grey, Anteak Oak and Sheffield Oak. It can also be fitted with either double or triple glazing for different thermal and acoustic options. For all available options, including hardware and security solutions, contact your fabricator or installer.

Resurgence, Article 4 and Conservation

Resurgence replicates the timber windows found on historical properties with the added 21st century benefits of low maintenance and high thermal efficiency. If you live in a historical, grade listed or conservation property, you will be subject to Article 4 or Listed Building Consent in order to fit Resurgence windows in your property.

While some councils are taking a more modern approach and accepting timber replica, energy efficient PVCu windows, it is best to check with your local council and Local Planning Authority before beginning any work on your property.

resurgence

Agate Grey Resurgence windows

Liniar Loves...

Irish Oak T-Shape Conservatory Roof

Château Grand
Bordeaux

White Tilt & turn window with Georgian bars

Tilt & turn windows

If you love opening your windows wide to let in fresh air, but worry about security, why not consider the European style of a Liniar tilt and turn window?

The 'open in' style gives great options for cleaning from within (in the turn position) and secure ventilation (in the tilt position).

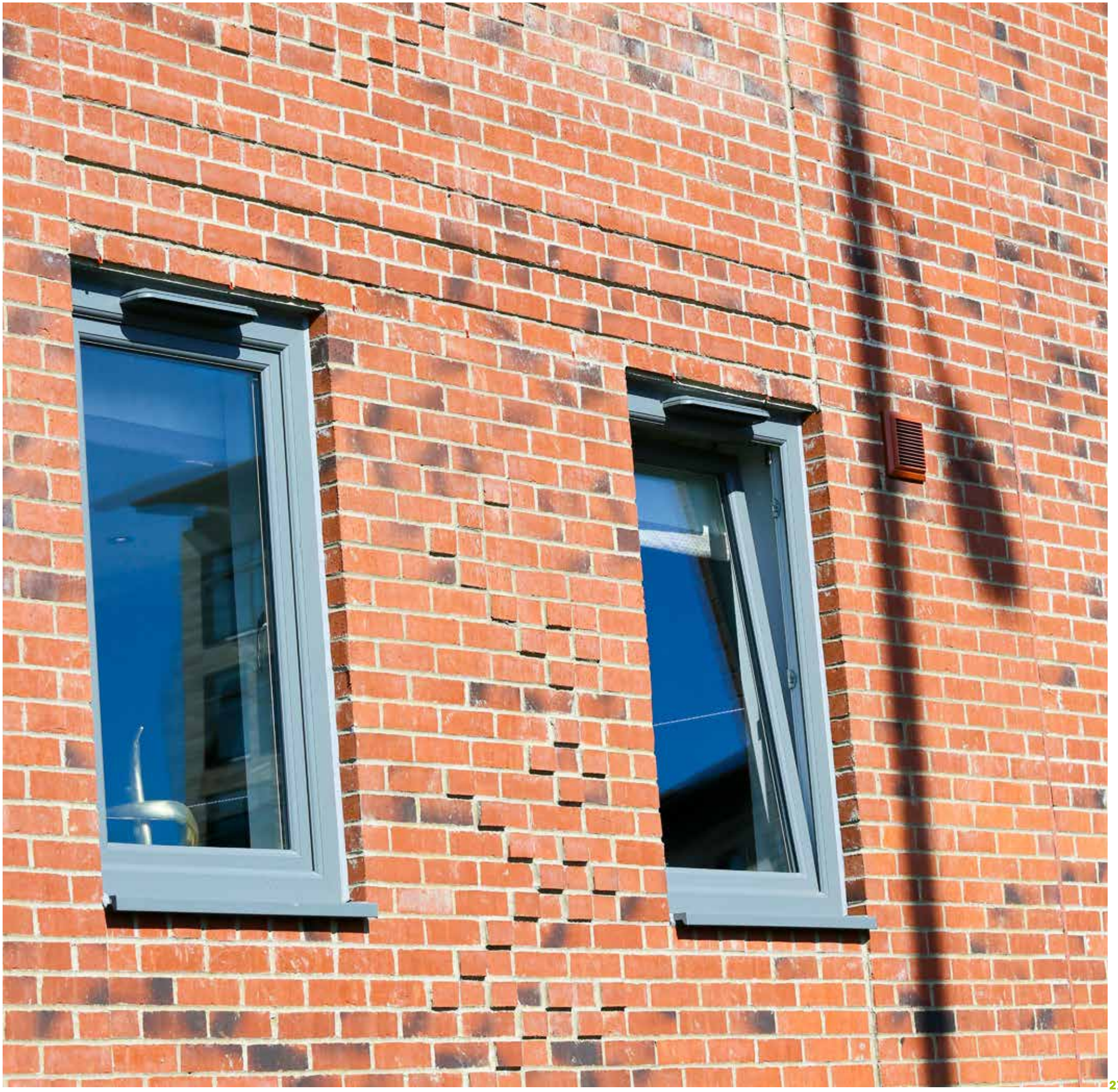
Offering a greater scope for larger openings than a traditional casement window, Liniar's tilt & turn windows are ideal for high-rise as well as low-rise applications, and thermal performance is helped by the larger panes of glass. Astragal or Georgian bars can be added, and your installer will be able to show you the wide choice of coloured and patterned glass on offer to you.

As with casement windows, Liniar's patented bubble gasket delivers a continuous seal around the edges, resulting in draught-free, weather proof and leak-free windows with U-values as low as 0.9 W/m²K.

Your installer will be able to advise you on the choices available, or visit the Liniar website at www.liniar.co.uk/windows/tilt-and-turn to see the stocked colour options and find out more about this style of window.

Options at a glance:

- Choose from standard 4-chamber or EnergyPlus 6-chamber frame.
- Sculptured (curved) or chamfered (bevelled)
- Add Georgian bars and/or patterned glass
- Wide choice of coloured and foiled frames



Reversible windows

Designed to make life easier…

The innovative Reversible window from Liniar makes cleaning the exterior of your windows effortless and safe. This window boasts a moveable pane which rotates a full 180° cycle, allowing the external glass of the window to be reached safely from inside the property.

The innovative, easy to operate window pane is designed not to intrude inside. With a unique rotating mechanism, you can rest assured that the pane won't snag on blinds, curtains or furniture. Utilising Liniar's patented features, the Reversible window is weatherproof and draught free, and with an easy-fit one-piece drip bar it easily withstands even the worst UK weather conditions with the utmost thermal efficiency.

Ideal for any type of property, particularly high-rise accommodation or upper floors with hard-to-reach windows, such as above a conservatory, the Reversible window matches the rest of the Liniar range.

Designed from scratch by a team with more than 500 years' experience in the windows industry, the Reversible window offers a flush finish on both the interior and exterior of the window and features some of the slimmest sightlines available. Contemporary with stunning chamfered lines, choose from a wide range of solid and woodgrain foils to suit your property.

Fully guaranteed with exceptional customer service, the Reversible window is the ideal choice for both residential and commercial properties.

French windows

Similar to the styling of French doors, Liniar's French windows open out from the centre to offer a full-width opening and maximum light.

Offering a distinctive style, French windows are ideal as a fire escape. One sash carries with it the central mullion as the windows are fully opened, providing you with unrestricted access and views.

With high security locks, your security is assured – and child restrictors can also be added for peace of mind. Traditional or contemporary, French windows can be installed in a variety of locations and buildings.

Liniar French windows feature the patented bubble gasket used in all products, delivering a continuous seal, even in the corners. This results in draught-free, weather proof and leak-free windows. High energy ratings result in U-values as low as 0.8 W/m²K.

Your installer will be able to advise you on the choices available, or you can visit the Liniar website at www.liniar.co.uk/windows/french to see the stocked colour options and find out more about Liniar French windows.

Options at a glance:

- Choose from standard 4-chamber or EnergyPlus 6-chamber frame
- Sculptured (curved) or chamfered (bevelled)
- Add Georgian bars and/or patterned glass
- Wide choice of coloured and foiled frames
- Wide choice of handle and hinge options.

Bi-fold windows

An increasingly popular choice, Liniar bi-fold windows fold back in a concertina-style to offer a full-width opening and maximum air and light.

Liniar bi-fold windows are popular for use in conservatories and orangeries and are also ideal for the commercial sector.

During the summer months they can transform a café or restaurant giving any establishment an outdoor, open feel, while also being secure and child-friendly.

If a bi-folding door isn't an option for your home, a bi-fold window can offer similar benefits whilst allowing you to retain valuable wall space inside your property.

Made to measure, a Liniar bi-fold window can be manufactured up to 4 panes wide and 1800mm high.

Your installer will be able to advise you on the choices available, or you can visit the Liniar website at www.liniar.co.uk/windows/bi-fold to see the stocked colour options and find out more about Liniar bi-fold windows.

Options at a glance:

- Standard 4-chamber frames
- Sculptured (curved) styling
- 28mm double glazed units
- Add Georgian bars and/or patterned glass
- Wide choice of coloured and foiled frames
- Wide choice of handles and hinge options.

Bay or bow windows

Liniar's innovative bow and bay window styles offer a number of features and benefits unrivalled in today's marketplace and are available in a range of options.

A great way to bring more light into your home, a bow or bay window style utilises either a standard casement or flush sash window to form a collection of windows set together at an angle.

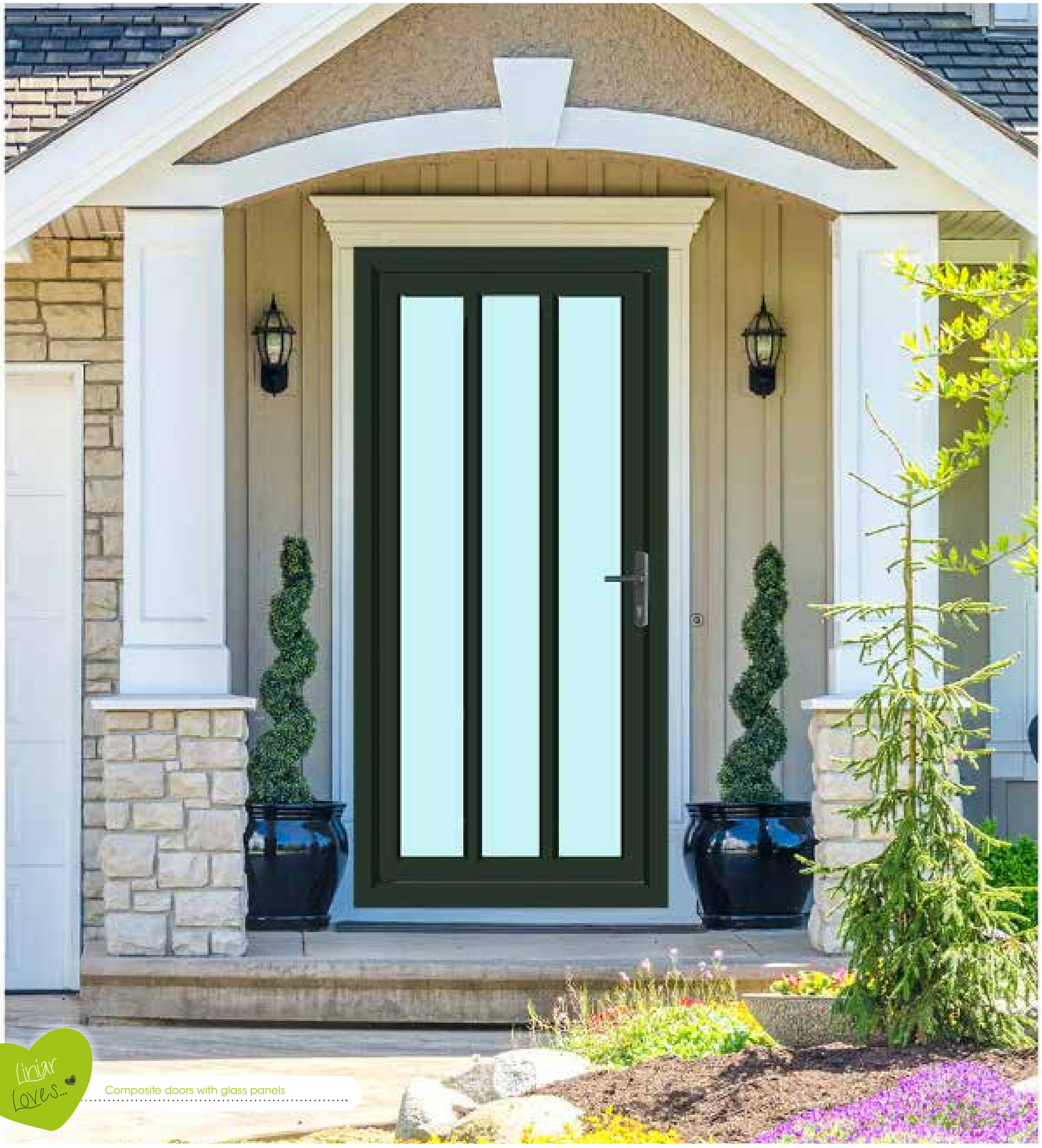
By choosing different styles, colours, glazing designs and handles, your bay or bow windows can be truly personalised for your home.

Liniar's innovative design of the interior and exterior joint couplings prevents dust traps forming, making cleaning with a damp cloth quick and easy.

Your installer will be able to advise you on the choices available, or you can visit the Liniar website at www.liniar.co.uk/windows/bow-and-bay to see the stocked colour options and find out more about Liniar bow and bay windows.

Options at a glance:

- Standard 4-chamber or EnergyPlus 6-chamber frames
- Sculptured (curved) or chamfered (bevelled)
- 28mm double glazed or 36mm triple glazed units
- Flush Sash styling available (see page 20)
- Add Georgian bars and or/patterned glass
- Wide choice of coloured and foiled frames
- Wide choice of handles and hinge options



Liniar Loves...

Composite doors with glass panels

The Liniar range of doors

Choose a Liniar door to create a stunning entrance to your home.

The profile, or frame, in a Liniar door contains multiple chambers to minimise the transfer of heat from the inside of your property to the outside. This, together with other innovative design enhancements, helps to minimise your energy costs on an ongoing basis.

Both PVCu residential doors and composite front doors utilise Liniar frames to perfectly match with your windows, and offer superb energy ratings. Liniar fabricators are able to offer a vast choice of styles, designs and colours - please speak to your fabricator to see the full range of options available.

French doors offer a solution for wider entrances and let in more light - with U-values as low as 1.0.

Why choose Liniar doors?

- Supreme thermal performance compared to other doors on the market
- Fully tested and accredited with the highest security credentials
- Doors match perfectly with the Liniar window range for a beautiful finish
- Patented design features deliver the smoothest and lightest operation.

For more information visit www.liniar.co.uk/doors.

Chartwell Green Residential door with matching sidelight

Residential doors

Your front door offers a first impression to callers to your home. With a Liniar PVCu residential door you can make sure it's a good one.

Liniar fabricators offer a wide selection of PVCu residential doors, all with the same energy efficient profile as your Liniar windows, together with high security locks and a great weather seal.

Every residential door is completely bespoke and made to order for you. Choose from a wide variety of colours and styles, glazed panels and matching sidelights. All Liniar residential doors are available with optional Part M compliant low threshold and your choice of hardware, handles, letter boxes and knockers. In addition, Liniar doors exceed British Standards and have achieved PAS 24:2015 and Secured by Design accreditation.

Liniar residential doors are also available in a 'stable' style, with the top section of the door opening independently of the lower section. Ideal for children and pets, the stable door style suits both traditional and modern properties.

Your installer will be able to advise you on the options available, or visit the Liniar website at www.liniar.co.uk/doors/residential to find out more.

Options at a glance:

- Choose from standard 4-chamber or EnergyPlus 6-chamber frame
- Sculptured (curved) or chamfered (bevelled)
- 28mm double glazed or 36mm triple glazed units
- Part M compliant low threshold available
- Wide choice of coloured and foiled styles
- Wide choice of handle, letterbox and hinge options.

Composite doors

Offering up to six times the insulation of a timber door, a composite door combines the look of timber with superb thermal performance.

Composite doors are made from a variety of materials including PVCu, wood, insulating foam and glass reinforced plastic (GRP). This combination of materials, with frames made from Liniar profiles, results in a very strong and secure door.

Each composite door has a high resistance to weathering and won't react to seasonal changes like a singular material door would. Liniar composite doors are designed with an attractive woodgrain appearance but, because of the materials used, they won't fade or discolour - and neither will they need painting, nor warp in damp conditions.

Doors can be manufactured with 44mm or 48mm deep door slabs, and the choice of colours, finishes, hardware and glazing options is almost endless. Each Liniar fabricator offers different ranges, styles and finishes, all with energy efficient Liniar frames.

Please ask to see individual brochures from your local installer for more details and options.

Visit the Liniar website at http://www.liniar.co.uk/doors/composite to find out more about composite doors.

Options at a glance:

- 44mm or 48mm (thickness) door slabs
- Sculptured (curved) or chamfered (bevelled)
- Part M compliant low threshold available
- Wide choice of coloured and foiled frames
- Wide choice of handles, letterbox and hinge options.

Chartwell Green Casement Windows with Georgian Bars

Liniar Loves...

French doors

Slim sightlines and a 'floating' central mullion mean Liniar French doors are the ideal choice for a fully opening and secure entrance to your home.

An attractive alternative to sliding patio or bi-folding doors, French doors can open inwards or outwards to suit your living space. Choose from Liniar's sculptured style for beautiful curves, or chamfered for a flat, more modern finish to your doors.

You could add sidelights for larger openings, and bevelled or patterned glass to add a distinctive style to your doors. Whichever design or colour you select, you can rest assured of the highest security as Liniar French doors carry PAS 24:2015 and Secured By Design accreditation.

Outperforming most of the other leading brands, Liniar French doors can achieve a U-value as low as 1.0 W/m²K with triple glazing, ensuring the heat stays in your home.

Your installer will be able to advise you on the options available, or visit the Liniar website at www.liniar.co.uk/doors/french to find out more about French doors.

Options at a glance:

- Choose from standard 4-chamber or EnergyPlus 6-chamber frames
- Sculptured (curved) or chamfered (bevelled)
- 28mm double glazed or 36mm triple glazed units
- Part M compliant low threshold available
- Add Georgian bars and/or patterned glass
- Wide choice of coloured and foiled frames
- Wide choice of handle and hinge options.

The Liniar ModLok™ Patio Door

Stunning, ergonomic design with smooth 'air glide' system.

Traditional sliding patio doors are as popular as ever, letting in light and creating a smooth entrance to gardens and conservatories all over the UK.

The Liniar ModLok™ patio system takes a traditional concept and brings it firmly into the 21st century with styling, operational and patented security features making it a stand-out product in the range.

Reaching up to four panes wide, with up to two moving panes, choosing a Liniar patio door with ModLok™ technology will deliver style without compromising security. And with a family-friendly low threshold option, which can be installed without the need for expensive trench excavation, your new installation can usually be carried out in just one day.

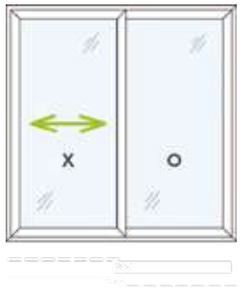
Why choose Liniar patio doors?

- Slim sightlines and hidden crash stops for beautiful ergonomics
- 'Smooth as air' gliding motion and built-in decelerator
- Cycle tested to 28,000 full opening cycles
- Optional Part M compliant low threshold with no need for trench excavation.

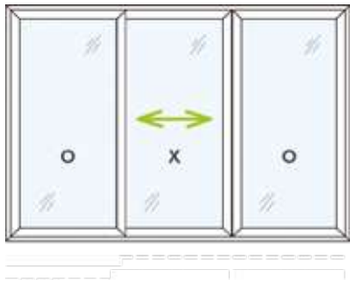
For more information visit www.liniar.co.uk/doors/patio

Patio configurations

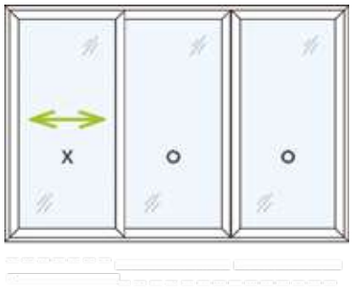
2 Pane
Style OX/XO



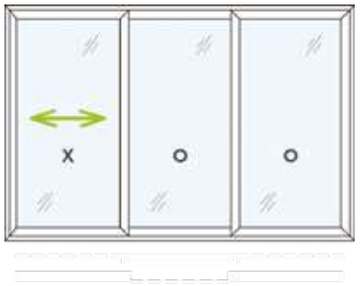
3 Pane
Style OXO



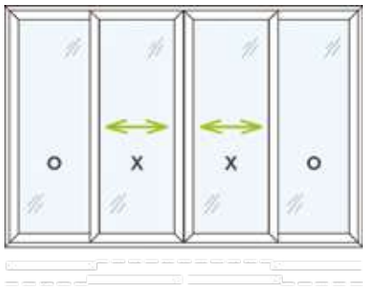
3 Pane
Style XOO/OOX



3 Pane
Style OOX/XOO (Optional)



4 Pane
Style OXXO



Patio doors

Don't compromise on security – the patented ModLok™ technology built into every Liniar patio door means it will help to protect your home.

Fitted with Liniar's revolutionary multi-wheeled 'air glide' system, the Liniar sliding patio door is perfectly balanced and family friendly to operate. Other sliding patio door systems operate on a four-wheel mechanism made of steel. The roller on Liniar patio doors features an eight-wheel acetal system, designed to provide a unique 'floating on air' smooth, silent, rolling motion.

This innovative roller is designed to self-adjust, even over mis-aligned surfaces. It also has a staggering load capacity for glazed panes up to 120kg per sash.

Built-in brushes gently sweep away any minor debris each time the doors are closed, helping it to maintain efficient operation.

The Liniar patio system features the innovative ModLok™ system, combining aluminium reinforcing with a high security locking mechanism.

Eco-friendly, the seamless aluminium sections encasing each pane of the door mean all elements can be separated and recycled easily at the end of the doors' useful life.

With four bi-directional lock clusters, the Liniar patio offers a high security solution. The system features eight mushroom-head locking points housed within an aluminium box section which provides additional rigidity and strength. 3-star rated 'anti-snap' locking cylinders can be added for even greater protection against would-be intruders.

Low threshold options

Thermally broken, the Liniar low threshold offers increased energy efficiency for patio doors. A Part M compliant low threshold with integral ramp is also available, both in silver or gold finishes. With all Liniar thresholds, no trench excavation is required, cutting down on installation time and disruption.

Available with mechanical jointing, the components of the patio frames can be supplied separately, rather than being welded together in one complete pane, to be fixed together on site. This makes it easier for the installer to transport and handle and opens up the option of a patio door to those who have limited access to the rear of their property.

The Liniar ModLok™ patio system needs to be experienced to fully appreciate the ergonomic design, the effortless opening mechanism and the smooth and noiseless 'air glide' motion. The patio system is so versatile, you could choose to have a midrail added to one or more panes – or even a letter box if required! Visit your nearest showroom to see it for yourself.

Your installer will be able to advise you on the options available, or visit the Liniar website at www.liniar.co.uk/doors/patio to find out more about patio doors.

Options at a glance:

- EnergyPlus 6-chamber frame
- Sculptured (curved) styling
- 28mm double or triple glazed units
- Part M compliant low threshold available
- Optional midrail, optional letterbox
- Wide choice of coloured and foiled frames
- Choice of black, white, dark and light chrome and gold handles.

White Patio door

The Liniar range of bi-folding doors

Open up an entire wall of your home.

Bi-folding doors are the perfect way for you to create space, let in fresh air and flood your home with natural daylight. Doors fold back, concertina-style, and are available in a huge range of styles, sizes and configurations. The Liniar design team created the first bespoke standard PVCu bi-fold door on the market, and followed it four years later with the development of the Queen's Award-winning ModLok™ bi-fold system; featuring a combined aluminium reinforcement and multi-point locking system to enable bigger and wider doors to be manufactured.

The Alumina by Liniar system offers a true aluminium bi-fold door with the benefits of high thermal efficiency and the same sculptured styling as the Liniar window range. With the option of foiling to create a warm touch, the Alumina bi-fold is able to span even greater heights and widths, up to 7 panes wide.

Why choose Liniar bi-folding doors:

- Highly secure, with super smooth bottom rolling action and modular locking technology
- Patented exoskeleton, full doors cycle tested to more than 120,000 full opening cycles
- Design features including discreet magnets and folding keys
- Optional thermally broken Part M compliant low threshold with no need for trench excavation.

For more information visit www.liniar.co.uk/doors/bifold

Bi-fold door configurations

The Liniar bi-folding door range has a wide variety of options when it comes to sizes and opening configurations – with the Standard range available up to 4 panes wide, the ModLok™ version up to 7 panes wide and the Alumina system up to 7 panes wide and 2.5m high.

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.

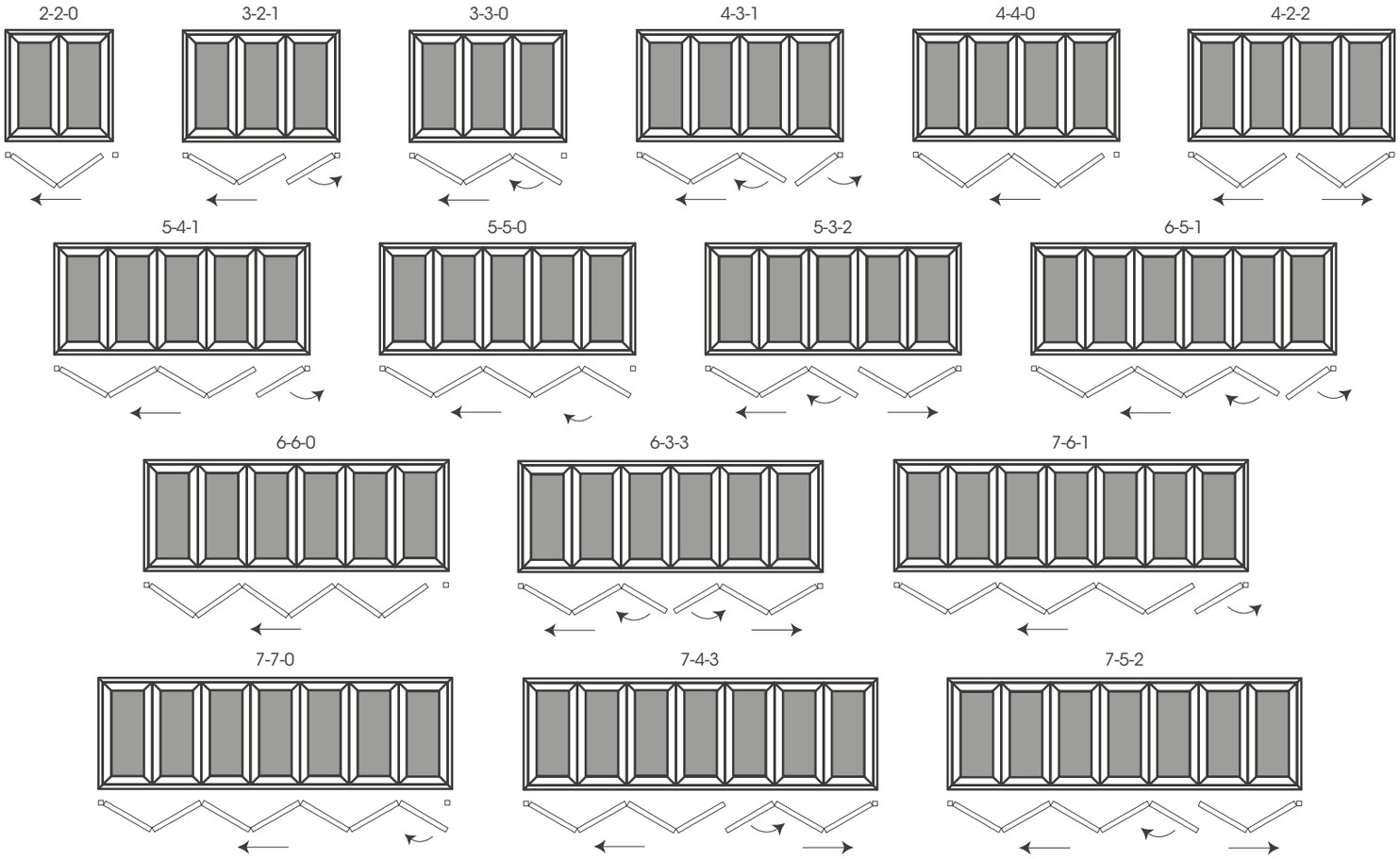
So, a 4-3-1 bi-folding door would be four panes wide, with three doors folding back to one side of the frame, and a single opening door on the other.

You can choose to have your door made with the majority of panes opening on the left or the right, and inward or outward opening for maximum versatility.

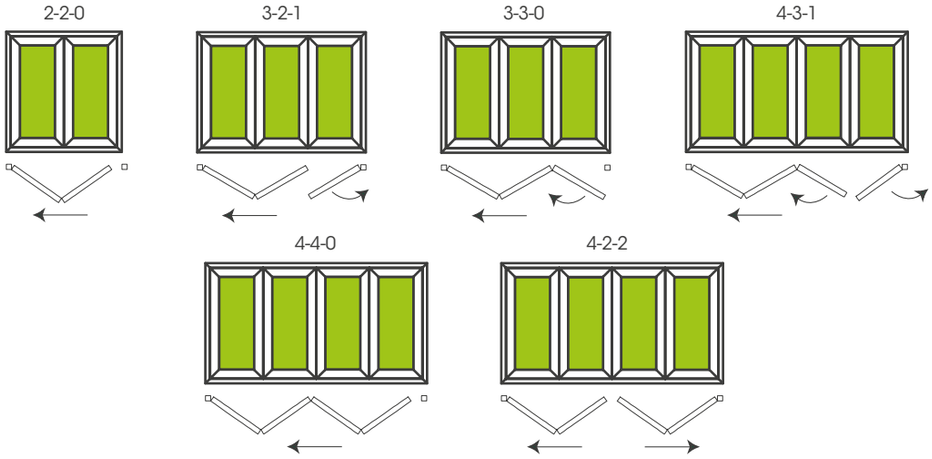
To see all opening/closing sequences visit our website at:

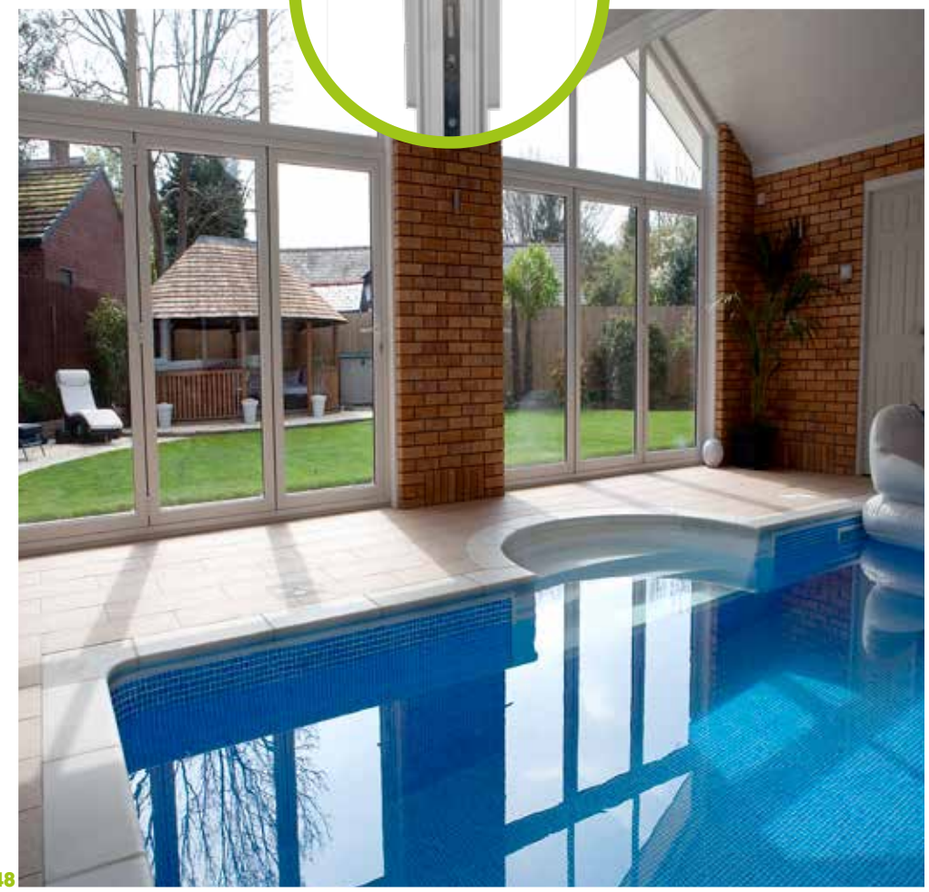
www.liniar.co.uk/bifoldopeningclosing

ModLok™ and Alumina configurations



Standard configurations





Standard bi-fold doors

The standard Liniar bi-fold system offers a cost effective option to open up a wall of your home, up to four panes in width.

The first bespoke PVCu bi-folding door system on the market, the standard Liniar bi-fold provides a truly stunning alternative to French or sliding patio doors.
The innovative Part M low threshold option is just one of the safety features included, making the Liniar bi-fold both family and wheelchair friendly.

On top of all of that, Liniar's bi-fold doors offer excellent levels of energy efficiency, alongside superb security features – this all adds up to create a beautiful space-saving solution for your property that will also hugely enhance its appearance and value.

The standard Liniar bi-fold can achieve a U-value of 1.3 W/m²K when fitted with cost effective double glazed units, which means you'll be able to enjoy a warmer and quieter home as well as lower energy bills.

Your installer will be able to advise you on the options available, or visit the Liniar website at www.liniar.co.uk/doors/bi-fold to find out more about the standard bi-fold.

Options at a glance:

- Standard 4-chamber frames
- Sculptured (curved) styling
- 28mm double glazed units
- Part M compliant low threshold available
- Wide choice of coloured and foiled styles
- Choice of black, white, dark and light chrome and gold handles.

ModLok™ bi-fold doors

Liniar's Queen's Award-winning bi-fold combines the structural benefits of an aluminium door set with the thermal efficiency of PVCu up to 7 panes wide.

The Liniar ModLok™ bi-folding door includes a seamless reinforcing and locking mechanism. This exoskeletal patented innovation not only offers the highest security standards, but enables the doors to span even larger and wider sizes.

Built in anti-lift features and anti-bump cylinders combine to bring you peace of mind. ModLok™ also offers enhanced security features, including three opposing hooks and two shootbolts built in to every master door, plus two anti-lift shootbolts on every slave door. The exo-skeletal system ensures only the master door will open first, so there's no chance of spraining locks by trying to open the wrong door – and folding keys mean no dents!

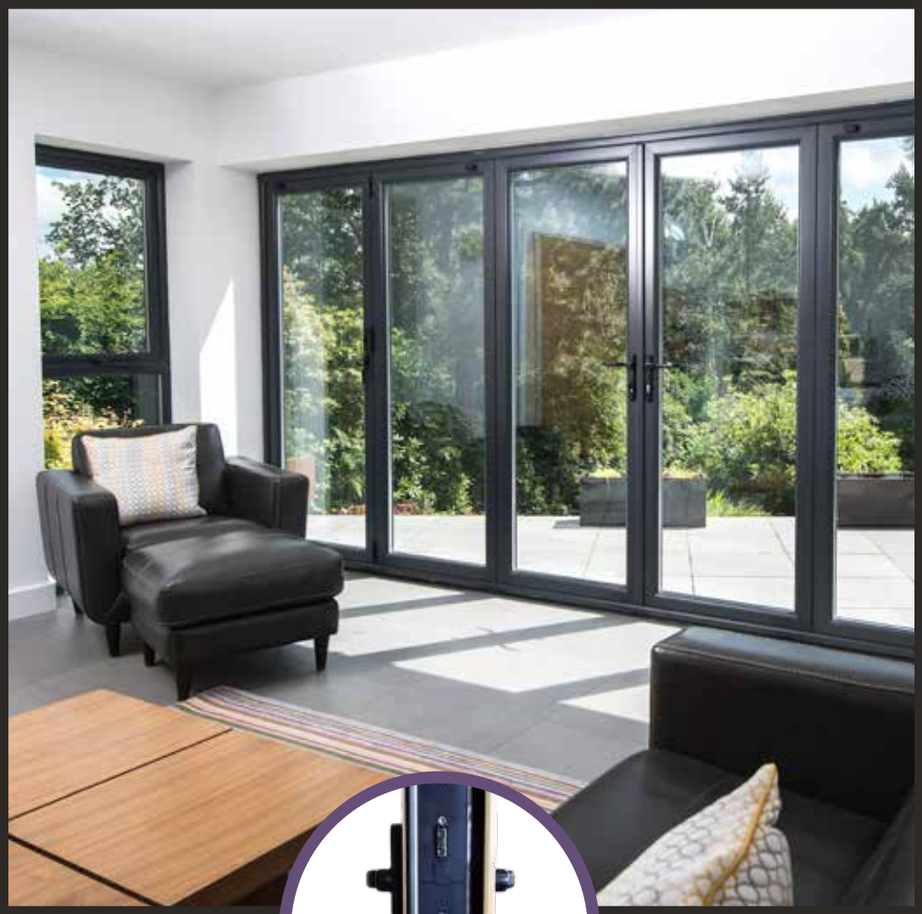
With Liniar's foiled woodgrain-effect options, your bi-folding doors can emulate the natural look of timber. The Liniar ModLok™ bi-fold can achieve a supremely energy efficient U-value of 1.0 W/m²K with triple glazed units.

Your installer will be able to advise you on the options available, or find out more on the Liniar website at www.liniar.co.uk/doors/modlok-bi-fold.

Options at a glance:

- EnergyPlus 6-chamber frames
- Sculptured (curved styling)
- 28mm double glazed or 36mm triple glazed units
- Part M compliant low threshold available
- PAS 24:2015, Secured by Design and Part Q
- Choice of black, white, dark and light chrome and gold handles.

7016 Grey 3-3-0 ModLok Bi-Fold door



Alumina Bi-fold doors

Made from aluminium, the Alumina by Liniar range delivers high thermal efficiency with the only sculptured aluminium bi-fold created to fully match PVCu windows.

The very latest product development from Liniar, the Alumina bi-fold was created to offer a true aluminium bi-fold for large apertures where the panes can reach up to 2.5m high for floor-to-ceiling glass.

The only fully sculptured aluminium bi-fold doors on the market, Alumina will match the exact shape of Liniar sculptured windows. Not only that, you can choose to have the frames supplied with factory fitted foils for a warm touch finish and a seamless colour match.

With the same hardware as the ModLok™ bi-fold system you can rest assured of the highest security features, including three opposing hooks and two shootbolts built in to every master door, plus two anti-lift shootbolts on every slave door.

Designed from the ground upwards with thermal efficiency firmly in mind, the Alumina system breaks the usual rules of standard aluminium bi-fold doors and addresses tomorrow's performance requirements today.

An innovative combined lock and thermal insert, or barrier, gives the Alumina door a supremely high energy rating and U-values as low as 1.2 W/m²K. The Liniar design team has combined 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 traditional aluminium doors. With configurations spanning up to 7 panes across, and each individual sash up to 1.2 metres wide and 2.5 metres high, your Alumina bi-folding door can open up an entire wall of your home up to 6 metres in width.

The doors are bottom rolling to ensure no additional stress is placed on the building's lintels, with stainless steel rollers guaranteeing a light, smooth operation along the bi-fold track. You can choose from three different thresholds for your Alumina bi-fold; it's supplied as standard with a rebated aluminium frame that runs continuously around the doors to form the most weathertight seal; you can select an aluminium low threshold which is just 23.5mm high at its highest point, for a seamless entrance and exit to your home; or add a tray to make the doors Part M compliant for wheelchair access and family living.

Your installer will be able to advise you on the options available, or visit the Liniar website at **http://www.liniar.co.uk/doors/alumina-bi-fold** to find out more about the Alumina bi-fold.

Options at a glance:

- Aluminium frame with patented polyamide lock
- Sculptured (curved) or chamfered (bevelled)
- 28mm double glazed or 36mm/40mm triple glazed units
- Part M compliant low threshold available
- Wide choice of foiled frames from stock
- Or sprayed in the colour of your choice
- Choice of black, white, dark and light chrome and gold handles.

Also available as a residential door or set of French doors

Liniar Loves...

7016 Grey 6-3-3 Alumina Bi-fold door

The energy efficient Liniar conservatory

Create additional space in your home with a fully matching conservatory.

Liniar's EnergyPlus conservatory roof is available in a stunning range of colours from stock and is designed to match perfectly with the rest of the Liniar window and door ranges.

With a host of patented innovations, including twin-walled EnergyPlus top caps, patented glazing slip prevention *(patent granted: GB2378207)* and built-in security features, a Liniar conservatory will add value to your home and offer additional space for you and your family to enjoy, all year round.

Each Liniar conservatory is lovingly designed and built to your specific requirements and is available in a wide number of styles, shapes and configurations. Your Liniar installer will be pleased to discuss your options and help you design your dream conservatory.

Why choose a Liniar conservatory?

- Thermally efficient, your Liniar conservatory can be used all year round.
- Fully bespoke, each roof is individually designed and built just for you.
- Patented design features help to make the system 'best in class'.
- Matches perfectly with the Liniar window range for a beautiful finish.

For more information visit www.liniar.co.uk/conservatories

Roof styles

Liniar conservatories are available in a wide range of styles, including the most popular as shown below.

Edwardian

Also known as Georgian, this style is square or rectangular with a high, sloping roof. Its imposing style and finishing touches allow you to maximise your living space.

Lean-to

This style offers a simple, cost effective solution for bungalows and porches, allowing maximum space in an economical style, and is often a popular choice.

Double hipped

With a pitched roof on both sides, this style strikes the perfect balance between style and a seamless fit with your home. The front facing pitched roof fits with most properties.

Victorian

One of the most popular styles of conservatory, the Victorian consists of a bay front, a steeply pitched roof and ornate ridge details – with either three or five facets.

Gable

Fully glazed right up to the apex, this style also has a square or rectangular footprint. Offering a stunning impact, this is often called the 'sun burst effect'.

Combination

Offering the ultimate in flexibility, this style combines one or more styles to create the perfect shape for your home and garden.

The Liniar conservatory

Everything you need for the perfect conservatory - all matching from Liniar.

A conservatory is made up of several different components – usually brick walls or PVCu panels, with windows above, an entrance door to link it to your home and an exit door to open it up to your garden – along with a roof. On the exterior you'll see guttering and drainpipes, together with a decorative finish to the roof's apex.

When building a conservatory, your installer may use components from different manufacturers. However, this doesn't always guarantee a perfect colour match, and also means that if there is a problem further down the line, there may be several different points of contact at different manufacturers in order to rectify the situation.

By choosing to install a full Liniar conservatory, not only will you be covered by a straightforward, single 10-year profile guarantee, you'll be sure of every product matching – from a Liniar ModLok™ patio door to enter the conservatory, to casement and bi-fold windows along the sides and a ModLok™ bi-folding door with low threshold opening onto a beautiful decking area.

The roof itself is supplied in kit format for installers, giving them everything they need to carry out a fast, efficient installation.

Options at a glance:

- Fully bespoke and made to order
- Wide choice of styles, design and colours
- Choose self-cleaning, solar control or uncoated glass
- Polycarbonate roofs also available
- Traditional finials or contemporary blanking trim
- Standard tie bar or contemporary stainless tie wire

elevate

Elevate Lantern Roofs

Illuminate your expectations.

Bringing natural light into your home has never been easier – or more beautiful. The Elevate lantern roof is perfect for illuminating kitchens, dining areas and even indoor swimming pools. Elevate is the sophisticated cousin of the traditional lantern roof, with more glass, slim sightlines and heightened energy efficiency.

Lantern roofs have been popular since the 19th century, with many featuring in estates, manors and even in the prestigious Kew Gardens. Ideal in orangeries or flat roof extensions, the Elevate lantern roof comes in both the traditional rectangular shape as well as a more modern square. Arriving with Liniar's EnergyPlus twin-walled caps as standard, the Elevate lantern roof provides exceptional thermal efficiency, lowering monthly energy bills.

Available in 36 colour combinations, the Elevate lantern roof is designed to match the full Liniar suite of windows and doors perfectly. Elevate comes in kit format, perfect for self-builders and installers, and comes with everything needed to get the job done. Foiled variants include the top and end caps for a sleek, seamless finish.

Add height and light in your home with a double hipped or square Elevate roof, whilst adding the benefit of copious amounts of natural light. Designed and made to your exact specifications, the Elevate lantern roof will raise your glazed roof expectations.

Your installer will be able to advise you on the options available, or visit the Liniar website at www.liniar.co.uk/elevate to find out more about Liniar's Elevate lantern roof.

Why stick to white?

The Liniar range comes in a wide variety of colours and finishes.

The basic Liniar PVCu profile is available in not just white, but also cream, caramel, brown and black substrates to offer a personalised appearance*

White | Cream | Caramel | Brown | Black

– or why not change its appearance completely by choosing one of our authentic foil finishes?

Liniar's coloured and woodgrain effect foils are factory fitted at the production stage, so you can rest assured of a perfect finish. Guaranteed for a minimum of 10 years, foiled PVCu is a low-maintenance alternative to timber as it won't rot or need repainting; all it requires is an occasional clean with soapy water.

Every Liniar product is available in a wide choice of coloured foils, applied in house using high tech equipment. In addition to standard colours, you could select a completely bespoke colour and finish from the huge range available. You can even choose to have the foil applied on just the interior or exterior if you prefer.

Please ask to see a Liniar foil swatch booklet to help you select the perfect colour choice.

For the range of foiled finishes available on the Alumina bi-fold, please see the separate swatch booklet or brochure.

Liniar's colour range

Neutrals

- White
- Cream
- Claystone
- 7038 Agate Grey
- Sage
- Chartwell Green
- Pebble Grey
- Balmoral

Greys

- Black Ulti Matt
- 7016 Grey
- 7016 Smooth
- Gale Grey Finesse
- 7015 Grey
- 7015 Smooth
- 7012 Basalt
- 7155 Silver Grey
- Black/Brown

Woodgrains

- Sheffield Oak Concrete
- Sheffield Oak Alpine
- Turner Oak Malt
- Irish Oak
- Golden Oak
- Cedar
- Oregon
- Sapeli
- Rosewood
- Mahogany
- Anteak Oak

Metallics

- Trompet
- Flemish Gold
- Bronze Platin
- Grey Aluminium

Primary

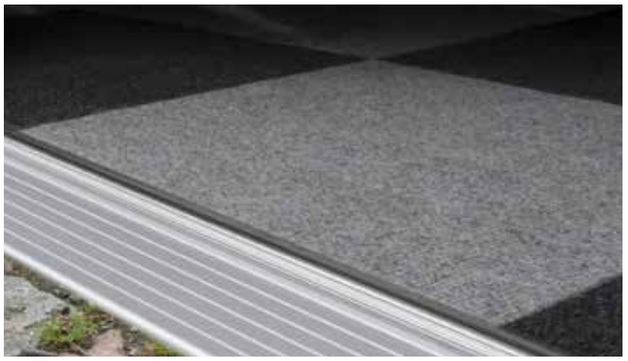
- Dark Green
- Burgundy
- Dark Red
- Blue

All colours are representative only - please ask to see a Liniar foil swatch booklet for accurate colours and finishes. * Not all Liniar products are available on all substrates - and some foils may require longer lead times to supply.

More options to consider

Georgian Bars

Unlike other astragal bars, Liniar Georgian bars are designed to simply snap into place before glazing and won't fall off. They also offer a more authentic appearance than adding aluminium bars within the sealed unit.



Thresholds

All Liniar doors are supplied as standard with PVCu outer frame and optional cill. You can also select a standard aluminium low threshold or a Part M compliant full or half aluminium threshold.

Arches

Liniar PVCu profile can be shaped to give your installation a truly bespoke appearance. Offered by a limited number of specialists, arching can add modern or contemporary styling.

Patterned Glass

A huge range of etched and patterned glass is available in both double and triple glazing for your Liniar windows, doors and sidelights. Ask your installer for the options they can offer.

Fire exits

It's important for every homeowner to plan an exit route in the unlikely event of a house fire. Liniar French and Tilt & Turn windows are ideal to provide a practical solution for your family's safety.

Child safety

If your windows are intended to open fully, you may wish to fit child restrictors for additional safety for your family. Child restrictors can be fitted to almost any Liniar window.

Hinge guards

Optional hinge guards add a further level of security to your Liniar windows and help to prevent the moving sash from being forcibly opened from the outside.

Handles

Locking handles should be fitted for maximum security – and the choice of colours, styles and designs is almost endless. Ask your installer to show you the full range offered.

Finished window and door products are manufactured by independent Liniar fabricators, who can offer a wide range of finishes including glass, handles and hardware. Please see your local fabricator for more details about specific requirements.

The finishing touch

Complete your window installation with perfectly matching roofline products, by choosing Liniar's high quality fascias, soffits and trims.

Thicker and stronger

Manufactured in-house by Liniar, all fascia boards are made using the latest advancements in extrusion equipment and technology, ensuring the highest quality.

At 20mm thick, instead of the customary 16mm, Liniar's fascia boards provide greater strength than other boards. Longer return legs and extra cover on mouldings help the installer to fit them more quickly. And pricing is competitive, with the thicker 20mm boards being similar to 16mm prices elsewhere.

Fully matching

Liniar's boards and trims are available from stock in the same choice of foiled colours as the Liniar sculptured window suite, with special colours and finishes also being available with a longer lead time.

Mouldings will be foiled to match for a perfect finish to installations.

A single guarantee

As the range is covered by Liniar's 10-year guarantee against discolouration, warping or splitting, it makes sense to order all Liniar products for a single point of contact.

Liniar's roofline range includes:

- Fascia boards
- Foam soffit boards
- Hollow soffit boards
- Flat boards
- Capping boards
- Utility boards
- Replacement boards
- 135° internal and external corners
- 90° internal and external corners
- Joint trims
- Cladding

The Liniar outdoor range

Decking

Liniar's PVCu and composite decking is the only range to be tooled, modelled, designed, manufactured, foiled and stocked at its purpose-built facility in Derbyshire.

With a choice of bespoke designed sub-frames, Liniar's part-recycled decking ranges offer a low maintenance outdoor solution that won't rot, warp or splinter.

Teamed with a fully sculptured balustrade system that can be foiled to perfectly match Liniar windows, decking ranges are available in a variety of complementary colours and have been fully tested for strength, fire safety and slip resistance.

For more information visit www.liniar.co.uk/decking

Fencing

Offering an attractive and low maintenance alternative to more traditional materials, Liniar PVCu fencing systems are lightweight to carry and easy to install, whilst being surprisingly strong.

From fence posts reinforced with steel inserts to gravel boards and full panels, the Liniar system is fully interchangeable with other fencing systems including concrete and timber, making it ideal for an enduring replacement solution

Strong enough to withstand storm force winds, Liniar part-recycled fencing is durable and easy to install, with no specialist equipment required – and the added bonus of no sanding, staining or painting needed year after year!

For more information visit www.liniar.co.uk/fencing

Piling

Used in a wide variety of landscaping projects, soil and water retention and flood prevention, Liniar piling offers an eco-friendly and long lasting alternative to unattractive and expensive steel or timber piles.

Made from interlocking sections, Liniar's piling is made from 100% recycled materials and is easy to install manually without the need for specialist equipment in the right ground conditions. Sheet piles come in a choice of styles and can be tied back for even greater strength.

Liniar piling systems are used by the Environment Agency to preserve peat bogs in moorland areas and prevent flooding on lower ground, as well as householders living in floodplain areas or close to river banks to prevent flooding or bank erosion.

Also used extensively in the highways and utilities sectors, Liniar plastic piling is surprisingly strong and offers a cost effective solution for a wide variety of challenges.

Log Pile

The unique appearance of Liniar Log Pile makes it ideal where an attractive finish is required. Used extensively in new home development for garden retention on sloping ground, as well as providing a striking perimeter to the banks of ponds and lakes, Log Pile is manufactured with a timber composite fascia for a natural appearance.

Log pile comes in 6m lengths of three 'logs' which lock together on each side. You can add caps to the top or fill each 'log' with soil and plants to blend in with its environment. The whole Liniar piling range is resistant to most chemicals, won't rot or rust and offers a cost effective, unique, eco-friendly, alternative to other forms of erosion control and slope stabilisation.

For more information visit www.liniar.co.uk/plastic-piling

7 **great reasons** to choose Liniar

Innovative - continued investment in infrastructure, technology and a great team of people results in forward-thinking designs.

Energy efficient – designed from scratch to achieve the pinnacle of thermal performance and retain more heat in your property

Safe and secure – engineered with built-in security features and approved by independent testing facilities

British made – frames are extruded in our state-of-the-art factory in the heart of Derbyshire

Sustainable – Liniar sends zero operational wastage to landfills, instead using its scrap to create full or partially recycled PVCu products for more than three decades

Quality assured – backed with ISO 9001 accreditation for your peace of mind

Guaranteed – all Liniar frames are guaranteed to not warp, split or discolour for a minimum of 10 years

Your Liniar stockist is: Termopane Windows LTD

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Tel: 01582662363 Email:
sales@termopanewindows.com

Liniar