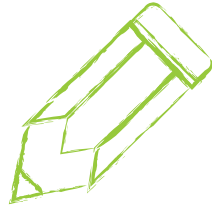


# Discover Liniar

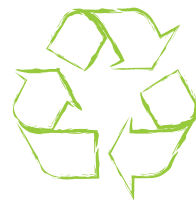
Innovation, quality and sustainability  
in product development



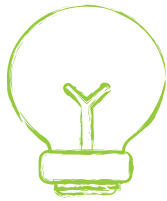




The Liniar range is designed by experts with over 500 years experience and tested by our in-house robot, Mark II.



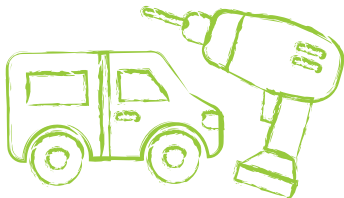
Every product in the Liniar range is lead-free, energy efficient, recyclable and easy to transport - protecting our environment.



With over 52 patents and Registered Designs, Liniar leads the industry in cutting-edge product development.



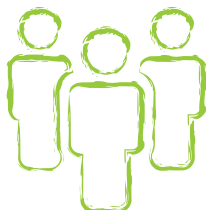
The full Liniar range is perfectly matched - with up to 37 colours and a single point of guarantee.



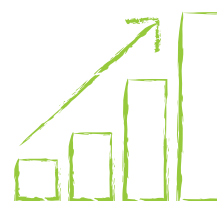
Liniar's patented designs are built with the installer in mind - so all products are simple to fit, saving precious time on the job.



Our technical team provides expertise and advice on all products across the Liniar range for new and existing customers.



With a global parent company and a flat, friendly structure, Liniar meets the needs of customers large and small.



With continued investment in facilities, plant, tooling, machinery, new products and staff, Liniar is reliable, stable partner.

# Discover Liniar

A brand synonymous with innovation, expertise and quality, Liniar delivers cutting-edge technology and market-leading products without sacrificing its friendly, open approach towards business relationships.

With a focus on research, development and design, the Liniar range pushes the boundaries when it comes to product innovation.

Continued investment in infrastructure, technology and a great team of people has brought industry-leading success and sustainable growth across a range of markets.

Facilities include 400,000ft<sup>2</sup> of purpose built facilities, a showroom displaying the whole product range, the biggest PVCu mixing plant in Europe and a growing fleet of delivery vehicles - all combining to make Liniar truly customer focused.

## At a glance:

- Part of the Flamstead Group of companies, owned by Quanex Building Products, a NYSE-listed company.
- Manufacturing in the UK since 1974
- 500+ loyal customers
- 500+ Group employees
- £90m+ in Group turnover
- Winner of the Queens Award for Enterprise in Innovation 2017



# Our Timeline

PVCu extrusion company  
HL Plastics Ltd  
is created

1974

The Eurocell  
brand is created  
to launch a  
range of cellular  
foam building  
products

1981

The first own-  
brand range is  
launched – the  
Suregrip system  
for roof walkways

The first Eurocell  
PVCu window  
range is  
designed and  
launched

1991

A new range  
of recycled  
PVCu piling  
and retention  
solutions is  
created

1993

1994

1998

The PVCu  
decking system  
is launched

1999

Tessenderlo  
Group acquires  
75% of  
Eurocell Group  
(100% by 2003)

2005

The decking  
system becomes  
the first to bear  
the Liniar brand  
name

2006

Former HLP owner  
buys back HL  
Plastics, which is  
no longer core to  
Tessenderlo

2007

The first Liniar  
chamfered 70mm  
window range is  
created

2008

The Liniar  
part-recycled  
fencing system  
is designed and  
launched

Another UK-first,  
the Resurgence  
double-rebated  
flush sash window  
is created

2019

The UK's first  
PVCu Passive  
House compliant  
window,  
EnergyPlus90 is  
launched

2018

Liniar launches  
a fully reversible  
window and the  
Elevate lantern roof

2017

Fully aluminium  
door system  
Alumina is  
launched, plus  
Liniar roofline  
system

2016

Liniar PVCu  
cellular foam  
trims are and  
installation  
supplies are  
launched

2015

The ModLok™ bi-  
folding door and  
original flush sash  
windows are both  
launched

2014

Recycled  
composite-  
finish Log Pile is  
launched

2013

The launch of the  
Liniar ModLok™  
inline sliding  
patio door

2012

The Liniar  
conservatory  
roof system is  
launched

2011

The UK's first  
bespoke PVCu  
bi-folding door  
system is created

2010

Liniar sculptured  
windows are  
launched

2009

# Our group

Liniar belongs to the Flamstead Group, alongside sister company Avantek Machinery, which supplies high quality machinery solutions to the fenestration industry.

Created by an entrepreneur, the Group was sold to an American parent company in 2015 – Quanex Building Products. Unlike other UK systems companies who have gone down the equity-backed route, Liniar's creator wanted to ensure the Group continued to be subject to the same support, investment and culture throughout its future growth. As a New York Stock Exchange-listed company, Quanex has proved to be

an excellent parent, who sees our UK companies as jewels in its crown.

## Avantek Machinery

One of the only machinery companies to invest in a fully working machinery showroom, Avantek offers the highest quality machines from stock in many cases. Highly trained engineers travel the length and breadth of the country to install, set up and train staff, offering continued support and service throughout the machine's useful life.



## Continued investment

Liniar has grown through a comprehensive investment programme in order to keep its facilities, plant and machinery in optimum condition for product quality excellence.

Since Quanex became its parent company, Liniar has benefited from the addition of a 178,000 ft<sup>2</sup> warehouse and showroom, taking the current footprint to 400,000 ft<sup>2</sup>. Machinery, tools and equipment are areas of heavy investment, with

low-energy, multi-strand PVCu extruders, bespoke lamination machines and an ongoing programme of new lines commissioned on a regular basis.

The cap-ex investment made by Quanex over 3 years has totalled more than £30m, with similar levels budgeted for the next 5 years. This, together with investing in key people, apprentices and new product innovation, puts Liniar at the forefront of the UK PVCu extrusion industry.

# Our sectors



## Fabricators

Specialist window and door fabricators manufacture the Linar fenestration range including windows, doors and roofs, supplying the trade, construction and retail markets.



## Installers

All Linar products can be fitted by trained installers, and Linar provides comprehensive installation guides and videos to help ensure they are fitted correctly.



## Homeowners

Consumers choose Linar products for a variety of reasons – energy saving, low maintenance and high quality – and the majority of online enquiries come via this route.



## Architects & Specifiers

With a fully comprehensive Specification Guide, thousands of energy rating calculations and technical information, Linar products are also listed on NBS Plus.



## Construction & Developers

Linar products are specified with many of the UK's major housebuilders and developers, with a central tender management function to facilitate commercial tenders.



## Decking and Fencing Installers

Many specialist installers and landscapers choose Linar's outdoor range, thanks to its maintenance-free appearance, durability and ease of fitting.



## Holiday Parks

Linar decking is specified on many of the UK's favourite holiday parks, resulting in increased outdoor living space on caravans and lodges.



## Other Sectors

Linar's recycled piling range is chosen by many different sectors, including environmental agencies, landscapers, road and rail and utility companies.

# Sustainability focused

PVCu is widely recognised as a sustainable option for the construction and landscaping industries, with the Liniar range leading the way. Starting with purpose-built facilities and a product range designed wholly from recycled PVCu, Liniar is focused on looking after our environment whilst creating products of the highest quality.

Liniar has had an environmentally-conscious focus for almost three decades, when the company created a range of products specifically to utilise its PVCu operational scrap. Its onsite recycling facility regrinds waste product from the production process and uses this in outdoor ranges of decking, fencing and piling.

These ranges offer a maintenance-free solution for many different markets, including the National Trust and the Environment Agency, who utilise Liniar piling to protect wildlife and flood plains.

All Liniar PVCu products can be recycled up to 10 times, giving windows for example an estimated life span of up to 350 years. The focus on thermal efficiency from the start means the Liniar window and door ranges keep more heat inside buildings, saving energy for the end user.

Liniar's continued investment in the latest energy efficient machinery helps to ensure we keep our carbon footprint as low as possible, and our fleet replacement programme ensures we select lorries with low emissions. In addition:

- We have an Environmental Policy that is part of our induction process for all staff and contractors, and are part of the Climate Change Agreement with the Environment Agency.
- ISO 14001 Environmental Standards accreditation was achieved in 2018.
- We recycle around 4 billion gallons of water each year, thanks to our purpose built underground water chambers.
- We work with a third party expert to continuously find ways to reduce carbon, and are currently 63% ahead of this year's target.
- We've replaced all incandescent lighting with low voltage LED lighting.
- We've installed energy efficient heat pumps which don't use fossil fuels.
- Operationally, we keep our equipment maintained in optimum condition to keep energy use to a minimum.
- Our scrap rates are the lowest in the industry (less than 3%; the average is between 7-10%) and 100% of PVCu operational scrap is recycled into our outdoor product ranges.





# Quality and assurance

Liniar designs and tests all products with the highest quality in mind. Due to the nature of the window supply chain, glazed products such as windows, doors and roofs are fabricated by customers, so in order to maintain our expected high levels of quality, Liniar introduced the Liniar Approved scheme.

When a fabricator displays the Liniar Approved stamp, this confirms they have been subjected to an exhaustive onsite audit process by the Liniar Technical Team, and the following standards have been checked and verified:

- They manufacture Liniar products using only Liniar approved components;
- They manufacture Liniar products to a verified high standard and in line with Liniar's latest fabrication manuals;
- They are customer-focused, with a dispute resolution process in place to deal with any issues.
- Their business is financially stable.

Maintaining the quality, safety and security standards of Liniar products is of paramount importance to the whole team at Liniar. We are committed to supporting customers in manufacturing the highest quality, fully accredited and guaranteed products

Liniar profiles themselves are also guaranteed, with each range carrying different guarantees depending on the manufacturing process. Please see the website for individual product guarantees at [www.liniar.co.uk/guarantees](http://www.liniar.co.uk/guarantees). Guarantee claims should be made through the manufacturer in the first instance.





# The Liniar product range



## Casement Window

Liniar casement windows offer slim sightlines for maximum light.

Available in 3 different profiles: standard 4-chamber, EnergyPlus 6-chamber and EnergyPlus90, our Passive House accredited system.



## Tilt & Turn Window

Perfect as a fire escape or simply for ventilation.

Achieving A ratings with ease, available with a wide range of hardware, glazing options and accessories.



## Flush Sash Window

The aesthetics of a timber window with 21st Century thermal benefits.

Choose from Liniar's original 70mm flush sash or 80mm Resurgence system – either welded or mechanically jointed.



## Reversible Window

Fully rotating so the glass can be cleaned from the inside, the Liniar Reversible window is ideal for upper floor and high-rise locations.



## Bi-folding Doors

From the original PVCu standard bi-fold up to 4 panes wide to the Queen's Award-winning ModLok™ bi-fold, Liniar bi-folds provide supreme strength and thermal efficiency.



## Residential Doors

PVCu doors in a huge variety of styles and colours, including stable doors.

Liniar frames and thresholds are also compatible with 44mm and 49mm composite slabs.



## Sliding Patio Door

Ideal for locations short of space where opening doors may be difficult.

The Liniar patio door has an ergonomic design, effortless opening mechanism and an air glide motion.



## French Door

With slim sightlines and a floating mullion, the French door is available in a range of styles.

Choose alone or with sidelights and a Part M compliant threshold.



### Alumina by Linar

The true aluminium range, includes a bi-fold, residential and French door. With sash sizes up to 2.5m high and bi-folds up to 6.5m wide, it is ideal for commercial applications.



### Conservatory

Energy efficient thanks to the latest technology.

The Linar conservatory is available in a range of styles, shapes and designs. All matching with the rest of the Linar range.



### Elevate Lantern Roofs

The stunning Elevate lantern roof comes in kit format, with everything needed to add light to orangeries and flat roof extensions. Available via all Linar fabricators, it can be fitted in less than 30 minutes.



### Roofline & Trims

Fully colour matched to the rest of the Linar range.

Linar soffits, fascias and trims offer a perfectly matching solution to any installation and are quick and simple to install.



### Installation Supplies

For a fully matching and perfect finish, choose the Linar approved range of installation supplies and other accessories for long lasting and guaranteed installations.



### Decking

Low maintenance deckboards fixed to a galvanised steel sub-frame help to give homes and communal areas a robust, durable and attractive outdoor space.



### Fencing

Surprisingly strong, the Linar PVCu and composite fencing system is part-recycled, with posts, panels, gravel boards and arched tops available in a choice of 10 maintenance-free colours and finishes.



### Piling & Retention

Made for soil and water retention and available in different styles and finishes, PVCu piling provides a lightweight, easy to install and attractive barrier. Manufactured from 100% recycled PVCu.

# Liniar's accreditations

Liniar tests all of its products to meet the highest British standards through an ongoing testing programme. If a product contains all Liniar Approved components, then it also holds the following accreditations:

	PAS24	BBA	Secured by Design	BS 6375	BS12608	ISO9001
Casement Window	✓	✓	✓	✓	✓	✓
EnergyPlus Casement Window	✓	✗	✓	✓	✓	✓
Flush Sash Window	✓	✗	✓	✓	✓	✓
Tilt & Turn Window	✓	✓	✓	✓	✓	✓
EnergyPlus 90 Window	✓	✗	✓	✓	✓	✓
Reversible Window	✓	✗	✓	✓	✓	✓
Resurgence Window	✓	✗	✓	✓	✓	✓
Residential Door	✓	✓	✓	✓	✓	✓
Composite Door	✓	✗	✗	✓	✓	✓
French Door	✓	✓	✓	✓	✓	✓
Patio Door	✗	✗	✗	✓	✓	✓
Standard Bi-fold Door	✗	✗	✗	✓	✓	✓
ModLok™ Bi-fold Door	✓	✗	✓	✓	✓	✓
ModLok™ Residential Door	✓	✗	✓	✓	✓	✓
ModLok™ French Door	✓	✗	✓	✓	✓	✓
Alumina Bi-fold Door	✓	✗	✓	✓	✗	✓
Alumina Residential Door	✓	✗	✓	✓	✗	✓
Alumina French Door	✓	✗	✓	✓	✗	✓

	FD30	BS 476-7
Fire Door	✓	✓

	BS 476	BS 7976	BS 660-2	BS 428
Decking (Deckboards)	✓	✓	✓	✓

	Class 1 Fire Rating
Roofline (Soffits and Fascias)	✓



### SBD

Secured by Design status is awarded to products designed with exceptional security features as their main priority. Linar products, which hold this certification are tested to meet the requirements of the Association of Chief Police Officers.



### ISO9001:2015

The Linar factory has achieved BS EN ISO9001 accreditation, meeting British Standards for a quality management system. This standard means that Linar customers benefit from consistently great products and service.



### ISO14001:2015

The Linar factory has achieved BS EN ISO14001 accreditation. This accreditation recognises a company's environmental management program and shows that Linar is committed to protecting the environment whilst delivering top of the line products.



### BBA

The British Board of Agrément (BBA) is the UK's major authority offering approval of construction products, systems and installers. Their certificates are recognised by architects, engineers and specifiers as an impartial review of performance.



### BS EN 12608

BS EN 12608:2003 is the standard of quality, consistency and performance required for PVCu extruded hollow profiles. Products are regularly tested to ensure that they continue to meet these standards.



### PAS 24

This accreditation is part of the British Standards system and shows the product has been subjected to a series of tests, demonstrating enhanced security, performance, air and water tightness, and wind loading to BS 6375.



### BS 6375

Parts 1, 2 and 3 of British BS 6375 are the requirements for performance of windows and doors. This includes weather performance testing, inclusive of wind loading, functionality testing and cyclic testing.



### BS 476-7

Part 7 of BS 476 refers to fire tests on building materials and structures which determines the classification of the surface spread of flame on products. Products with this accreditation have a Class 1 Fire Rating.



### BS 7976

Part 2 of BS 7976 test is used to determine the moving (dynamic) resistance to floor slip. Linar deckboards' slip resistance was good in both wet and dry conditions.



### BS 660-2 and BBS 428

Both standards refer to wear resistance of PVCu floor coverings and is measured in terms of 'volume lost'.



# Awards

An award-winning business can more easily demonstrate its strengths and expertise – and Liniar has won its fair share of awards over the years.

From national awards to industry and product-specific awards, the icing on the cake came for Liniar in 2017, with the honour of achieving a Queen's Award for Enterprise, in the category of Innovation – one of just 57 companies nationwide to be included that year.

Liniar has won many awards, including:

- Derby Telegraph Company of the Year
- Inclusion in the London Stock Exchange's '1,000 Companies to Inspire Britain'
- Growing Business of the Year
- Systems Company of the Year
- Best Stand over 80m<sup>2</sup> at the FIT Show exhibition
- Queen's Award for Enterprise – Innovation
- Made in the Midlands – Manufacturer of the Year
- PVCu Company of the Year
- New Product of the Year – Resurgence window

For a full list of finalist places and award wins, visit [www.liniar.co.uk/awards](http://www.liniar.co.uk/awards)



# Why PVCu



## Safe and Secure

High security multi-point locking,  
achieving PAS:24 and  
Secured by Design means  
Liniar products meet Part Q.



## Energy Efficient

With unique multi-chambered  
PVCu profile, Liniar windows  
can achieve the very latest  
A++ energy ratings.



## 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 energy  
efficient, recyclable PVCu,  
making it a sustainable choice.



## Made in Britain

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



## Low maintenance

Liniar products won't rot, rust,  
or require painting - just  
an occasional clean with  
warm soapy water!

## Get in touch

Sales - [sales@liniar.co.uk](mailto:sales@liniar.co.uk)

Technical Support - [technical@liniar.co.uk](mailto:technical@liniar.co.uk)

Design & Development - [design@liniar.co.uk](mailto:design@liniar.co.uk)

Commercial Development - [commercial@liniar.co.uk](mailto:commercial@liniar.co.uk)

Marketing - [marketing@liniar.co.uk](mailto:marketing@liniar.co.uk)



LiniarUK



LiniarProfiles



LiniarUK



Liniar



LiniarUK



LiniarUK

## 7 great reasons to choose Liniar

**Made in Britain** - our state-of-the-art factory is located in the heart of the UK

**Privately owned** - we don't have to answer to external investors and invest in developing our product range for the benefit of our customers

**Continued and sustainable growth** - we're growing organically by helping our customers to grow their business

**Eco-friendly** - every product in the Liniar range is lead-free, energy efficient and easy to transport

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

**Fully tested** - all Liniar products are put through exhaustive tests to ensure they are robust and built to last

**Guaranteed** - Please see individual product information for details of the Liniar guarantee.



### Liniar

Flamstead House  
Denby Hall Business Park  
Denby  
Derbyshire DE5 8JX

Tel: +44 (0)1332 883900  
Fax: +44 (0)1332 883901  
Email: [sales@liniar.co.uk](mailto:sales@liniar.co.uk)

[www.liniar.co.uk](http://www.liniar.co.uk)

