



# Zero|90

Windows and Doors for Homes of the Future



# ABOUT Zero|90

**Zero|90 windows and doors are unlike anything else on the UK market today.**

Not only do they help developers, housebuilders and specifiers meet Future Homes Standard well ahead of schedule, they offer huge energy savings to the millions of homes that fail to meet current insulation standards – delivering comfort and quiet in a sustainable, cost effective solution.

With a suite containing the UK's first Passivhaus certified PVCu casement window, the Zero|90 range leads to a reduction in carbon in the construction of homes and buildings, as well as offering Whole Life Carbon reductions as it's made in Britain.

And it's not just for new builds! Zero|90 is accessible to everyone. An innovative rebated design means Zero|90R windows can easily be retrofitted into existing buildings to replace older windows – helping everyone on their journey to Net Zero.



# ZERO COMPARISON

Getting a good night's sleep relies on a comfortable temperature and protection from loud external noise. Zero|90 can help deliver both of these and more...



## ENERGY SAVING

Zero|90 delivers U-Values as low as 0.66 W/m<sup>2</sup>K, with potential energy savings of more than £15,000\* over the lifespan of your windows and doors.



## SUSTAINABLE CHOICE

With a recycled core, replacing windows with Zero|90 offers 17 tonnes\* of carbon saving – equivalent to planting over 700 trees\*\* over the products' lifespan.



## NOISE REDUCING

Noise is reduced by up to 42dB, halving the transmissible sound compared to a standard double-glazed window, to enhance your quality of life.



## INNOVATIVE

Including the UK's first Passive House certified PVCu window, the Zero|90 range is ideal for both Future Homes developments and existing buildings.



## SAFE AND SECURE

Zero|90 products are fully tested to the strict requirements of British Standard PAS24 and Secured By Design, meeting Part Q Building Regulations.



## FULLY MATCHING

With a modern, chamfered bead, Zero|90 is available in a choice of popular coloured foiled finishes to suit every building.

\* Based on Linia's energy saving calculator  
\*\* Based on 24 trees per tonne of CO<sub>2</sub>. Source: Encon.eu

# Zero|90 WINDOWS

**Comprising a full range of window styles, Zero|90 is ideal for both new and existing buildings.**

Choose white frames, or select from a choice of beautifully foiled colours, all fully matched to the rest of the Liniar range for wider project development.

Although Zero|90 windows are 90mm deep, they look exactly the same as Liniar's 70mm PVCu windows, with similar slim sightlines. The frame depth allows for triple and quadruple glazed units, meaning the multi-chambered thermal and acoustic properties of the windows are significantly enhanced when compared to standard double-glazed windows.

Zero|90 windows contain all the patented technology found in Liniar's other systems, including the superb weather performance provided by a unique patented bubble gasket.

Zero|90 windows are manufactured to Liniar's exacting fabrication standards by a range of independent nationwide specialists.





# CUSTOMISE YOUR Zero|90 WINDOW

- Astragal or Georgian bars
- Mock sash horns
- Easy-clean hinges
- Choice of handles, glass and arched shapes



Using the latest technology, Liniar has created a recycled core, making Zero|90 window sashes even more sustainable.

# THE Zero|90 WINDOW RANGE

Zero|90 windows are available in a number of different styles, with a choice of triple or quadruple glazing. Ask your specialist fabricator for the options available for handles and patterned glass.



## CASEMENT WINDOWS



The most versatile window style, casement windows can be configured in a wide variety of fixed and opening sashes. The Zero|90 casement can also be retro-fitted into 70mm cavity without disturbing the internal decoration.

**Ideal for:** A versatile style, suitable for most new build and retro-fit projects



## TILT & TURN WINDOWS



Ideal for larger openings, tilt & turn windows offer both the option of a fully opening aperture and a tilted pane for controlled ventilation, depending on the position of the handle.

**Ideal for:** Fire escape, high-rise buildings or larger openings



## FRENCH WINDOWS

Made from either a casement or a tilt & turn for the ultimate in versatility. The central mullion opens with one of the panes, meaning it offers easy access to outdoor spaces such as a flat roof for ease of cleaning.

Ideal for: Emergency exits and uninterrupted views



## BAY & BOW WINDOWS

Casements and tilt & turn windows can be formed into bay or bow window shapes by adding bespoke baypoles between the panes, perfect for replacing existing windows in this shape and style.

Ideal for: Extending the body of a room and increasing space



## MOCK SASH WINDOWS

By adding seamless sash horns to a casement window, the appearance of a Victorian sliding sash window can be achieved. The top pane in this case would swing outwards to open, just like a standard casement.

Ideal for: Replicating the look of traditional sliding sash windows

# Zero|90 DOORS

**Just like the windows, Zero|90 doors offer supreme thermal and acoustic performance compared to other residential and French doors on the market.**

With a chamfered frame appearance, 90mm doors can be fully matched to the entire Liniar range for wider project development.

Zero|90 doors look the same as a standard 70mm door once installed, whilst offering an ultra energy efficient contribution for developers wishing to achieve Passivhaus dwellings.

A huge choice of styles, colours and finishes is available for both residential doors and French door styles.

Zero|90 doors are manufactured to Liniar's exacting fabrication standards by a range of independent nationwide specialists.

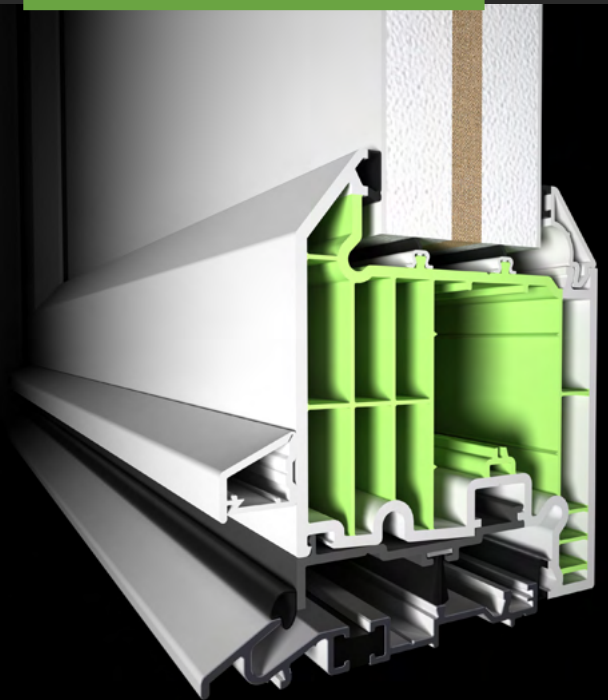






# CUSTOMISE YOUR Zero|90 DOORS

- Midrail for letterboxes
- Foiled, woodgrain finishes
- Glazed or solid panels
- A choice of thresholds



Available with a range of thresholds,  
including Part M compliant for  
access-friendly buildings

# THE Zero|90 DOOR RANGE





## RESIDENTIAL DOORS

Offering ultra high energy efficiency through the same multi-chambered frame profile as the ZERO90 window system, residential doors are available in a wide range of colours and foiled finishes fully matched to the entire Liniar range.

Available with a variety of accessories, from matching sidelights to letterboxes, along with a choice of handles and hinges.

**Ideal for:** Front, side or back doors; adding personality to a dwelling



## FRENCH DOORS

An attractive alternative to sliding patio or bi-fold doors, ZERO90 French doors open inwards or outwards, with no central mullion (bar), allowing for an unobstructed wide-opening capacity. Add Georgian bars to foiled doors for a modern appearance.

French doors can help to bring the outside in, creating an open atmosphere within a home whilst also allowing large amounts of natural light.

**Ideal for:** Patio areas; flooding a room with natural light

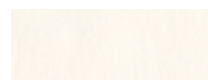
# THE LINIAR COLOUR RANGE



## NEUTRALS



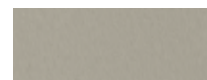
White



Cream



Claystone



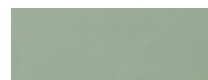
Pebble Grey



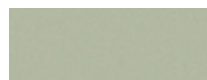
Balmoral



7038 Agate Grey



Chartwell Green



Sage

## WOODGRAINS



Sheffield Oak  
Concrete



Sheffield Oak  
Alpine



Turner Oak Malt



Irish Oak



Cedar



Oregon



Sapeli



Rosewood



Mahogany



Anteak Oak



Golden Oak

In addition to plain white, the Zero|90 range can be foiled in a wide choice of colours and finishes.

## GREYSCALE



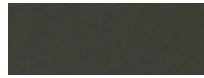
Black Ulti Matt



7016 Grey



7016 Smooth



Gale Grey Finesse



7015 Grey



7015 Smooth



7012 Basalt



7155 Silver Grey



7155 Smooth



Black Brown

## PRIMARY



Dark Green



Burgundy



Dark Red



Blue

## METALLICS



Trompet



Flemish Gold



Bronze Platin



Grey Aluminium

All colours are representative only. Please ask to see a colour swatch booklet before making your final selection.

# Zero|90 NEW BUILD

Energy and noise reduction are both high on the agenda for 'Homes of the Future', along with sustainable construction materials and methods all designed to assist towards the UK's Net Zero target.

Architects and developers all over the UK and Ireland are already building Future Homes, offering modern, sustainable dwellings designed to lower energy costs, whilst reducing the environmental impact. Ongoing changes to building regulations through Approved Document L (conservation of fuel and power) mean window installers and developers need to be ready for increasingly lower U-Value targets.

Passive House (or the original German spelling Passivhaus) standards, where buildings are designed to use minimal energy for heating and cooling to maintain the comfort of occupants, are already mandatory in some areas for new build dwellings, with many councils and Local Authorities carrying out construction trials across the UK in anticipation of the proposed changes to Part L. Zero|90 can achieve a U-Value of 0.66, protecting against future legislative changes.



Proposed changes to Part L applicable from June 2025 indicate windows and doors in new buildings will need to offer minimum U-Values of 0.8 W/m<sup>2</sup>K, which will be difficult for many existing window systems to achieve.



## ULTRA ENERGY EFFICIENT

Choosing Zero|90 windows and doors for your home build or renovation project can save up to £15,000\* in energy costs over a normal useful life span of 35 years. Using less energy also helps to reduce the carbon the building emits – helping developers meet Net Zero targets using cost-effective PVCu products, all made in the UK.



## TWICE AS MUCH NOISE PROTECTION

With more dwellings than ever being built in urban locations, noise reduction is increasingly an important factor when choosing building materials. In comparison with standard double-glazing, the Zero|90 system has been proven to halve the transmissible noise, leading to occupants enjoying a better night's sleep and enhancing their quality of life.



## FULLY RECYCLABLE & SUSTAINABLE

Replacing a standard PVCu window with a Zero|90 window containing recycled components offers the equivalent carbon saving of planting over 700 more trees. Zero|90's contribution to the circular economy via recycling means it's one of the most sustainable systems in the UK – in addition to the carbon savings generated by its energy efficient performance.

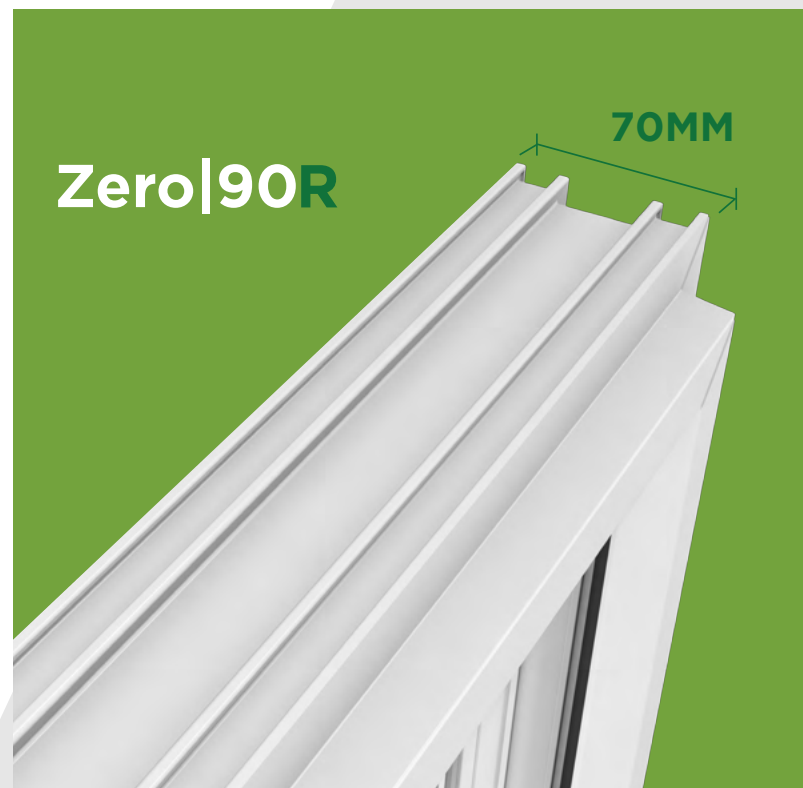
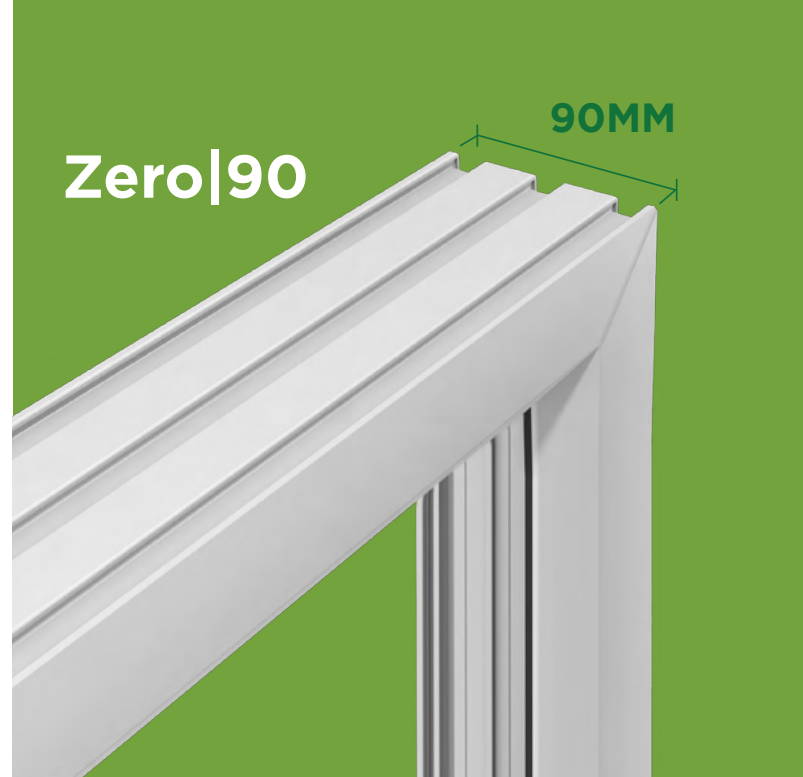
# Zero|90R

## RETRO FIT

**An innovative rebated design means Zero|90R windows can be retrofitted into existing buildings – helping everyone on their journey to Net Zero.**

Zero|90 was initially developed for the growing market for Passive House homes in the new build sector. However, Local Authorities responsible for retrofitting council housing properties in order to meet the requirements of the Future Homes Standard are demanding products that can help them meet these requirements. In addition, the growing demand for higher thermal efficiency, means homeowners in the retail sector are increasingly seeking energy efficient windows and doors.

Zero|90R is our innovative retro-fit option meaning installers won't need to remove the plaster line or face expensive replastering work when replacing existing standard 70mm frames. New windows will fit neatly into the existing reveal, thanks to the clever innovation built in to every Zero|90R frame.





# HOW TO SPECIFY



MEASURE

Open the window and measure the distance from the inside of the frame to the outer wall face

UNDER 120MM

120MM OR OVER

OPTION A

OR

OPTION B

OPTION C



REMOVE

REMOVE

REMOVE

Remove existing window

Remove existing window

Remove existing window



RESOLVE

FIT

FIT

Cut back plaster lines  
NOTE: this will cause disruptions to  
internal wall coverings

Fit Zero|90R window

Fit Zero|90 window



FIT

Fit Zero|90 window

For more information and a detailed guide, visit:

[www.liniar.co.uk/zero90](http://www.liniar.co.uk/zero90)

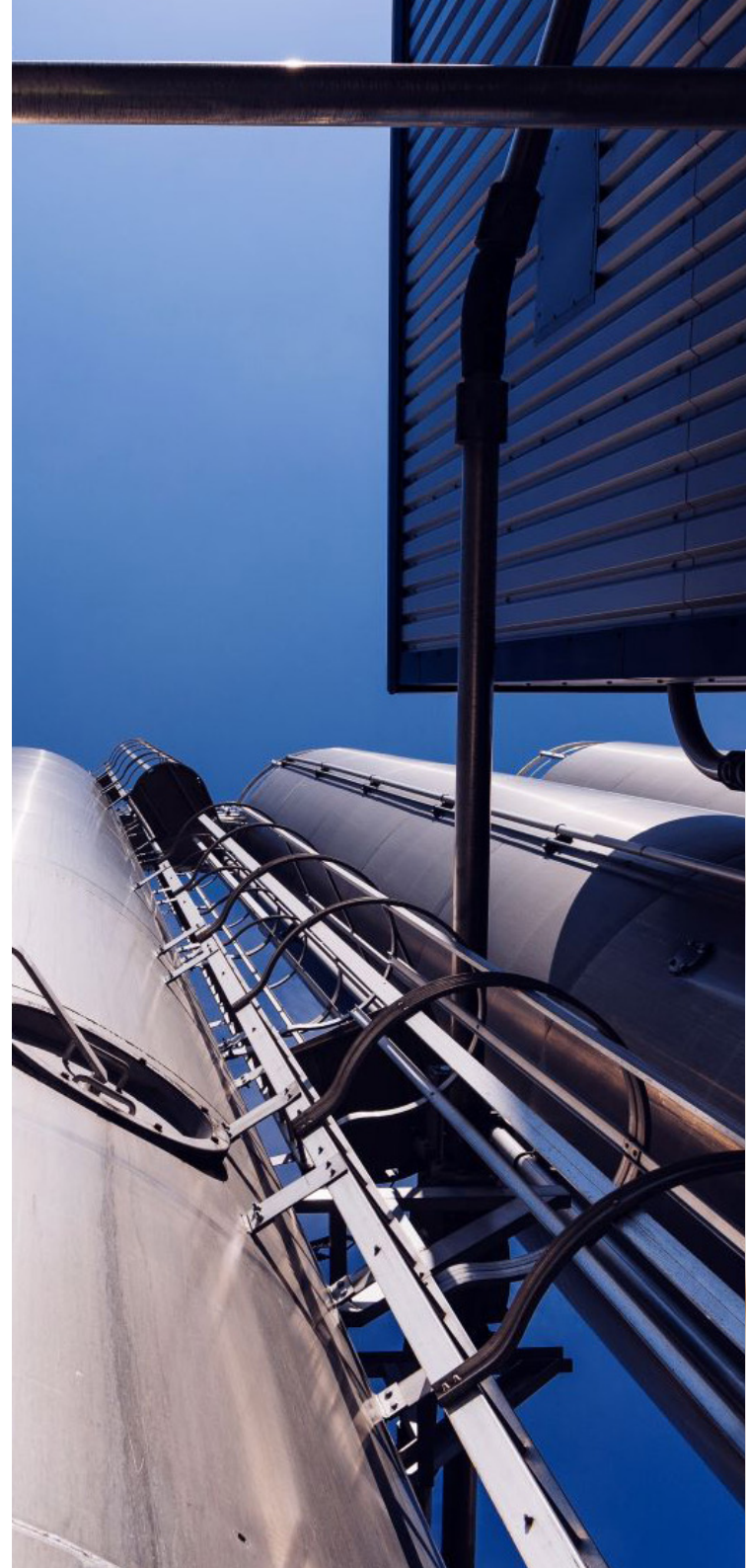
# ZERO COMPROMISE

## Sustainability Mission

Zero|90 is the latest product from Liniar, a UK PVCu systems company known for thermal efficiency innovation in windows and doors. Liniar is committed to the protection of the planet because there is no plan(et) B.

Its purpose-built PVCu extrusion and lamination facility in Derbyshire was built with sustainability in mind, with underground chambers recycling over 4 billion gallons of water each year.

The Liniar team works hard to ensure it sends zero operational waste to landfill, creates recycled products that can also be fully recycled at the end of their useful life, designs energy efficient and eco-friendly products and continually works towards the smallest carbon footprint possible.





## Recycling

Liniar's eco-friendly commitment began in the mid-1990s when the company began recycling its PVCu scrap into its outdoor product ranges. These products include piling, flood and retention solutions, used for conservation by organisations such as the National Trust and the Environment Agency, as well as maintenance-free fencing and composite decking.

## Environmental Management

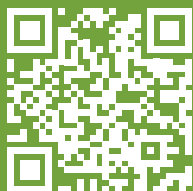
Liniar is proud to hold ISO 14001 for its Environmental Management Systems, alongside ISO 9001 for Quality Management.

The certification demonstrates increased awareness of sustainable development, alongside Liniar's commitment within a Climate Change Agreement. Liniar is on a clear journey towards Net Zero, having replaced lighting with LED bulbs, swapped company vehicles to electric, ensured no harmful solvents are used in its processes and embarking on a solar PV project.

To find out more about Liniar's environmental credentials visit [www.liniar.co.uk/sustainability](http://www.liniar.co.uk/sustainability).

*A Part of Something Bigger<sup>SM</sup>*

Scan the code to discover  
a list of ZERO|90 suppliers  
and begin your journey to a  
Future Home.



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