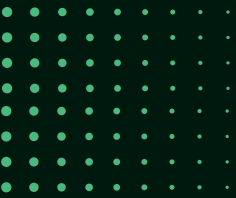


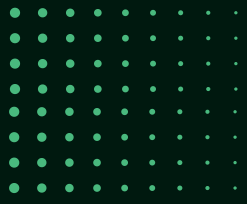


PASSIV GLASTM

ULTRA PERFORMANCE VACUUM GLAZING



The ultimate glass solution for both
new and existing window frames



PassivGlas Vacuum Glazing



Revolutionising the future of windows

The ultimate glass solution for both new and existing window frames



In the quest for sustainable and energy-efficient technologies, vacuum glazing has emerged as a groundbreaking innovation in the field of window design.

This remarkable technology offers an array of benefits that not only enhances the comfort of our living spaces, but also contributes significantly to reducing our carbon footprint.

More comfort

Thin and light

Low Carbon emissions

Sustainable development



What is Vacuum Glazing?

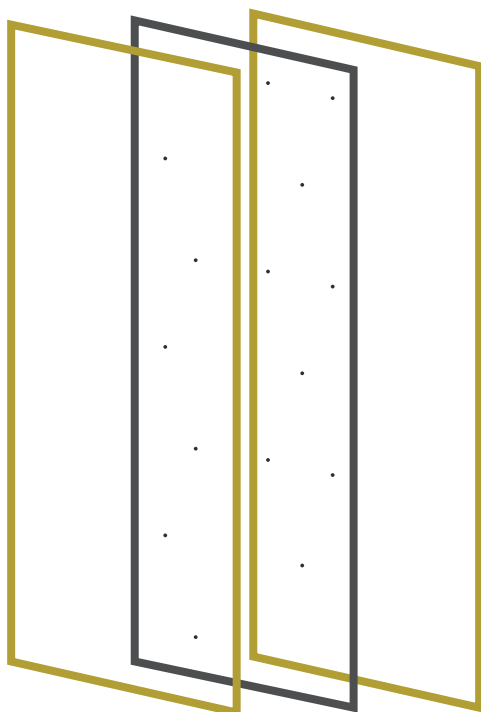
Vacuum glazing is an advanced fenestration technique that involves creating a highly insulating window by enclosing two glass panes with a micro-thin gap in between.

Unlike traditional double-glazed windows which use air or gas as an insulating layer, vacuum glazing employs a vacuum to minimise heat transfer through the window.

The elimination of air or gas from the gap significantly reduces conduction and convection heat losses, making vacuum glazing one of the most efficient insulation methods for windows.

PassivGlas™ offers tempered glass as standard with the best U-Values of $0.47\text{W/m}^2\text{K}$ while keeping up to 80% light transmittance.

The minimum glass thickness available in PassivGlas™ is 6.3mm with a weight of 15kg/m^2 .



Vacuum glazing has a 15 year warranty but a life expectancy greater than 25 years!

- High Thermal Insulation
- U value $<0.47\text{W/m}^2\text{k}$
- No condensation under -60°C
- No expansion and contraction
- Toughened as standard
- Lead free
- Fully recyclable

Unrivalled Thermal Performance



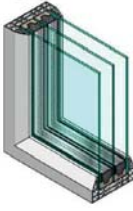

One of the most impressive facts about vacuum glazing is its unparalleled thermal performance. With U-values as low as 0.47 W/m²K, vacuum glazing outperforms other insulated glazing methods available today, including triple glazing.

The U-value measures the rate of heat transfer through a material, and lower values indicate superior insulating properties.

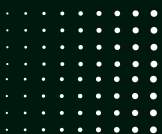
The exceptional thermal efficiency of vacuum glazing helps to maintain stable indoor temperatures, reducing the need for artificial heating or cooling and leading to substantial energy savings.

Perfect for use in buildings containing a high percentage of glass e.g. schools and offices.



Glass Type	Single Glazing	A Rated Double Glazing	Triple Glazing	Vacuum Glazing
				
Thickness (mm)	6mm	28mm	44mm	8.3mm
Weight (kg per M²)	15	20	30	From 15
LT %	88	78	71	Up to 80
U value-W/m2.K	5.82	1.65	0.8	0.47
SHGC	0.82	0.7	0.40	As low as 0.2

Inspire your workspace with PassivGlas™



Retrofitting: The smart approach to upgrading your windows

Whether you are looking to save money or help save the planet, our glass can help you to achieve both!

In most properties the existing frames are in perfectly good order and have many more years of life ahead. The problem lies with the glass. The old double glazed units are usually very inefficient at keeping your rooms warm and quiet.

Well now there is a far more cost effective solution to this problem, without the need to replace your frames. Retrofitting PassivGlas 'Ultimate' units will take your property to Future Homes Standard with its superior technology, minimising the heat loss through your windows and achieving up to 41dB of sound reduction.

Future proof the energy efficiency of your home

Reduce your carbon footprint by keeping your existing frames and lowering CO2 emissions

Achieve superior sound insulation



Where green living meets cost efficiency

Free energy from the sun

We can tailor a solution for your property with many combinations of PassivGlas 'Ultimate'. You can maximise the heat from the sun on cooler days to warm your rooms or keep them cooler during the hottest summer days. The choice is yours.

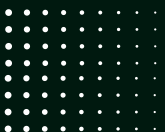


A clearer conscience

When selecting the best solution for your window upgrade, don't send perfectly good frames to landfill. In order to optimise your existing windows, choose to retrofit PassivGlas 'Ultimate' to help the planet and save you money.



Choose sustainability, enjoy savings



Ultrathin but Strong

Despite its incredibly thin profile, vacuum glazing is remarkably robust and durable. The vacuum-sealed gap between the glass panes prevents warping or bending, ensuring the integrity of the window over time.

The glass used in vacuum glazing is typically thinner than that of conventional double-glazed windows, reducing material usage whilst improving performance.

This makes vacuum glazed windows a more sustainable choice, as they require fewer raw materials and therefore, less energy to produce. PassivGlas comes toughened as standard, a feature not readily available from some vacuum glazing suppliers.

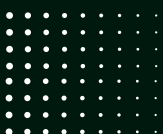


Enhanced Sound Insulation

In addition to its outstanding thermal insulating properties, vacuum glazing also offers exceptional sound insulating capabilities.

The vacuum layer acts as a buffer that dampens external noise, creating a peaceful and quiet indoor environment.

This feature is particularly advantageous for properties located in busy urban areas or near noisy environments, providing a more comfortable and tranquil living space.



Thin, Strong and Soundproof: PassivGlas™

New Build Projects

Vacuum glazing is the perfect choice for your new build project. It enables you to keep the slim design of double glazed units whilst increasing your energy rating to better than that of triple glazing.

It can be fitted into timber frames due its super slim design to eliminate the unsightly appearance of spacer bars.

Its outstanding sound reduction properties mean it is perfect for builds in high noise areas such as town centres, main roads or schools.

By keeping the frames slimmer and using fully recyclable glass, the carbon footprint of the build is reduced and energy savings are high. With a life expectancy of over 25 years, it contributes to a future proof build with high customer satisfaction.



Preservation of Historical Architecture

Vacuum glazing is a game-changer for preserving the historical charm of older buildings and heritage sites. Traditional single glazed windows are often inadequate in terms of thermal performance and can be challenging to upgrade without compromising the building's original aesthetics.

Vacuum glazing allows historical structures to maintain their classic appearance whilst vastly improving energy efficiency. This breakthrough technology opens up new possibilities for retrofitting projects and sustainable preservation of architectural heritage, including EnerPHit projects.



Enhancing heritage, one window at a time

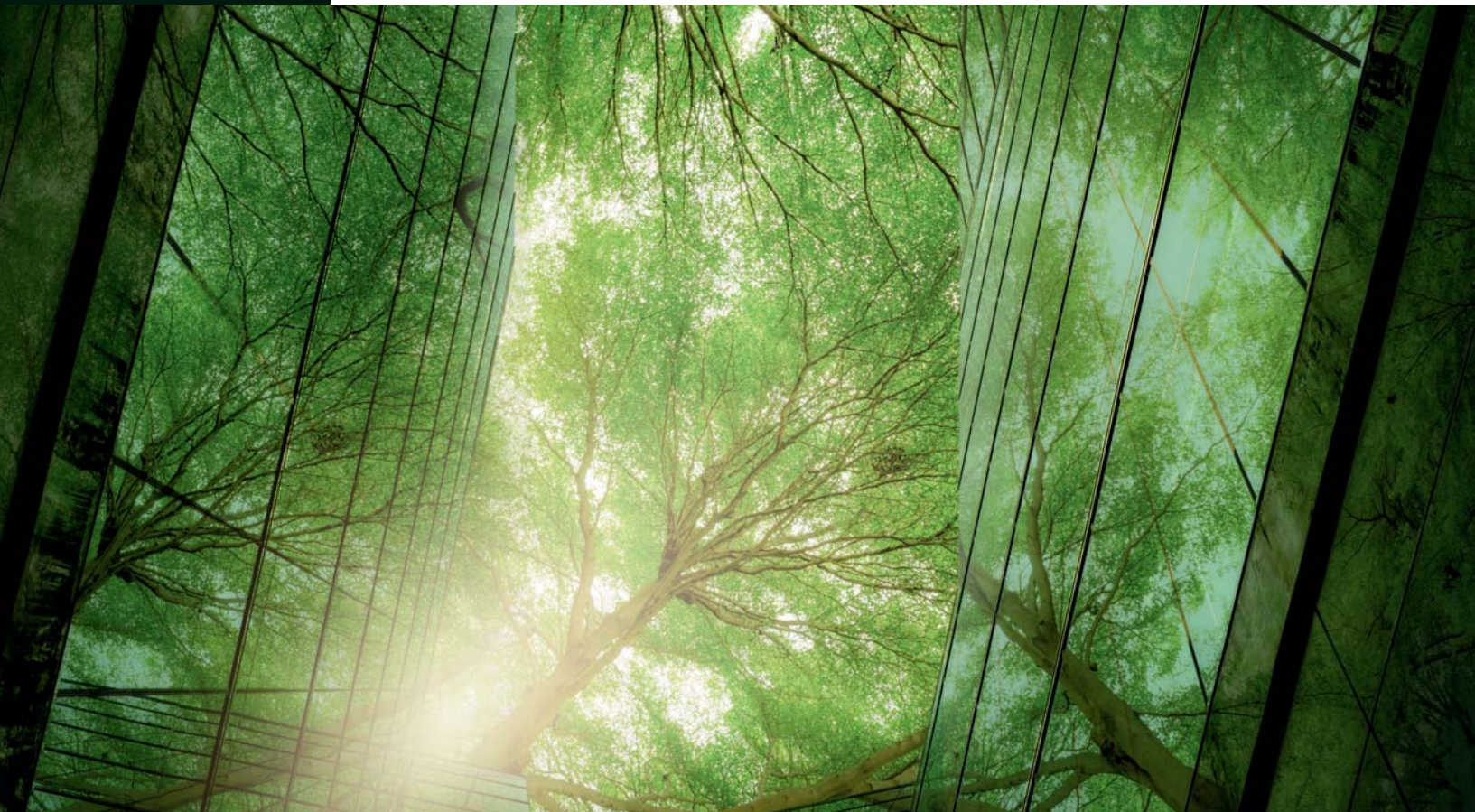
Contributing to carbon emission reduction

As the world increasingly acknowledges the importance of reducing carbon emissions, vacuum glazing emerges as an eco-friendly solution that can significantly contribute to this global effort.

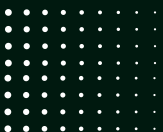
By improving the energy efficiency of buildings, which account for a considerable portion of energy consumption, vacuum glazing helps decrease the overall demand for energy and subsequently reduces greenhouse gas emissions. It aligns with sustainable building practices and green certifications, promoting a greener, more environmentally responsible future.

Vacuum glazing represents a revolutionary leap in window technology, offering industry leading thermal performance, noise reduction and durability.

Its ability to enhance energy efficiency while preserving the aesthetics of historical buildings, makes it a truly versatile and sustainable solution. As we continue to seek ways to combat climate change and reduce our ecological impact, vacuum glazing stands out as a beacon of hope, transforming the way we think about windows and their role in creating a greener, more sustainable world.



Your window to a greener world





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Supplied by



Tel: 0151 332 4545

Web: thevacuumglazingnetwork.co.uk

Email: info@vgnetwork.co.uk

Ash House, North Cheshire Trading Estate,
Prenton Way, Prenton, Wirral, CH43 3DU