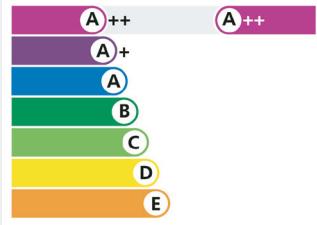


# Super energy efficient triple glazing



Energy Window	
Proven Performance.	
SGM Window Manufacturing Ltd	
Linair PVC-U Casement	
Eco Energy Plus Triple Glazed Ultimate	
	
<b>Energy Index (kWh/m<sup>2</sup>/year)</b> <small>(BFRC Energy Index certificate for standard UK and Ireland windows and doors). Actual energy consumption for specific application depends on: building type, local climate and indoor temperature.</small>	<b>20.00</b>
For climate zones in	UK & Ireland
Thermal Transmittance (U window)	1.00 W/m <sup>2</sup> .K
Solar Factor (g window)	0.40
Effective Air Leakage (L factor)	0.00 W/m <sup>2</sup> .K
Licence No. <b>5186</b>	
To verify this licence please visit <a href="http://bfrc.org">bfrc.org</a>	

**A++20**  
energy rating  
as standard

# Super energy efficient

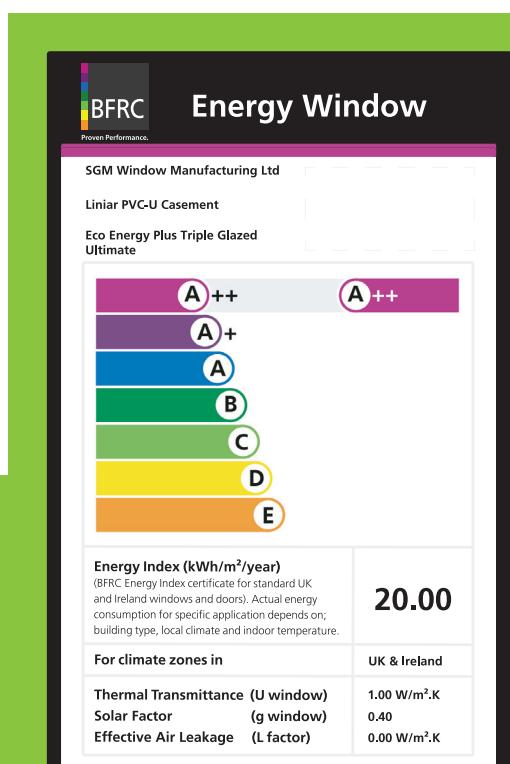
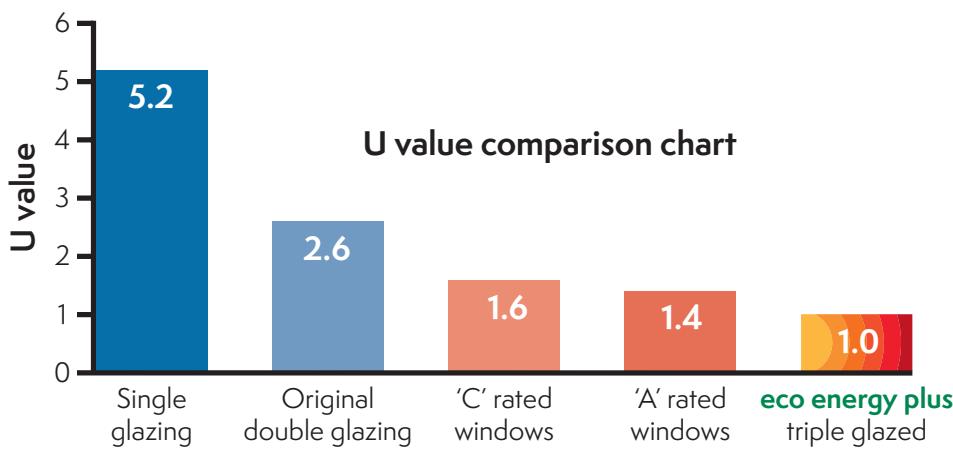
A "U" value is a measure of heat loss. It is expressed in W/m<sup>2</sup>k, and shows the amount of heat lost in watts (W) per sq metre. The lower the "U" value, the better the insulation.

The **eco energy plus** triple glazed window has an incredible U value of just 1.0 as standard, and a BFRC energy rating of A++20.

Compare this to a U value of 1.6 for C (-19) rated window, or 1.4 for an A (0) rated.

Radiators are nearly always positioned directly below a window, so it makes sense to strongly consider the insulation performance of the window directly above it. The **eco energy plus** triple glazed window will enable you to save more of the energy that you have personally paid for.

**Even lower U values are achievable, at an additional cost - ask for details.**



## Energy ratings

The BFRC energy rating is A++20 as standard, much higher and more energy efficient than a standard A rated double glazed window

Licence No. 5186

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# Purpose designed

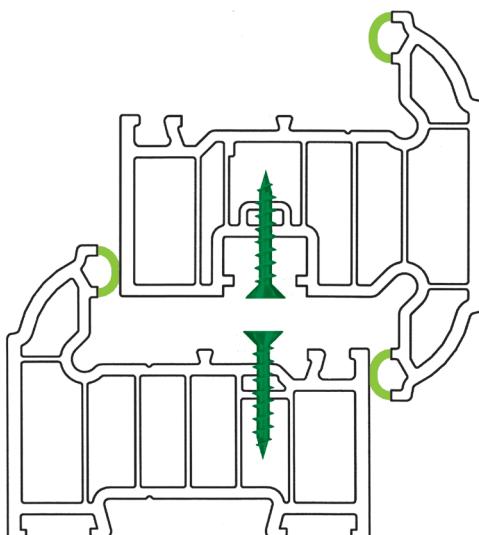
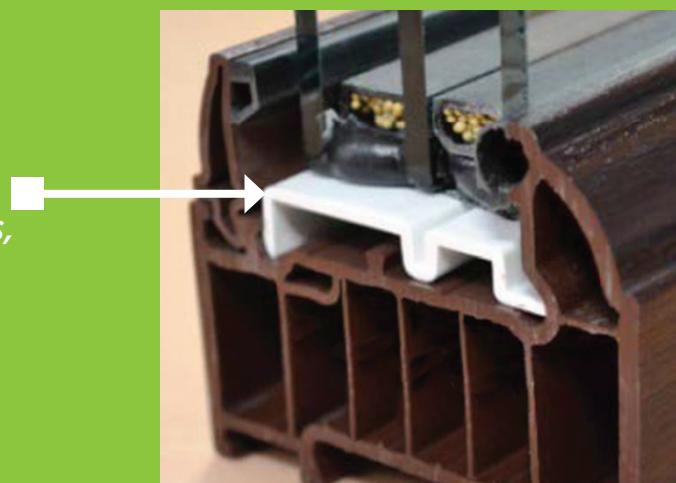
Triple glazing wasn't an "after thought" with the **eco energy plus** system - *it was designed with this in mind.*

The system is fitted with a 36mm thick triple glazed sealed unit providing beneficial insulation, sound proofing and security.

The internal security bead is exclusively used for triple glazing and was designed on this basis. This means the glass is securely and safely retained giving you peace of mind.

The **eco energy plus** system even has a unique designed glazing support packer to ensure the sealed unit is correctly positioned within the opening.

*This guarantees long term operational benefits as opening vents will not drop, and reduces the likelihood of a sealed unit breaking down as glass cannot slip (because all 3 panes are supported) when the sealant warms up in hotter temperatures, plus enabling rainwater to correctly drain away.*



The **eco energy plus** window system uses its multiple chambers to lock in the heat, and high performing bubble gasket seals to ensure there are no gaps for heat to escape.

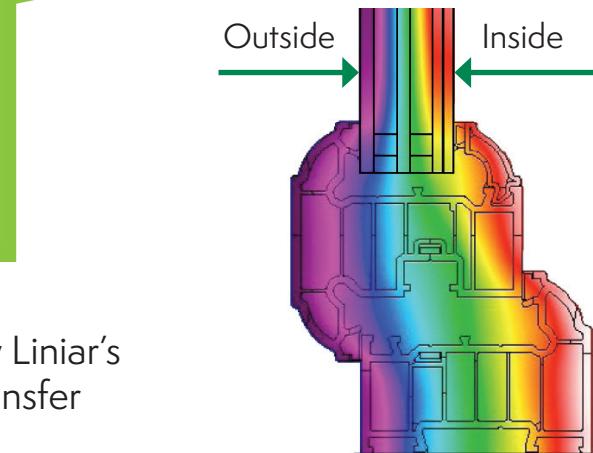
■ Hinge screws located through two walls of thick PVCu for added security and strength, unlike other systems.

# Purpose designed

If the additional weight of triple glazing concerns you, our heavy duty **Mega Hinge** will put your mind at rest. This is fitted as standard to all side hung openings.

The **Mega Hinge** has superior integral strength, and has been tested to over 25,000 cycles under 40kg operational load. It will therefore comfortably accommodate an opening sash weighing 40kg - a triple glazed sealed unit comprising of three panes of 4mm glass weighs approx 30kg per sqm.

The **Mega Hinge** provides fire escape as well as an easy clean facility.



The cross section to the right shows how Liniar's multi-chambered profile prevents the transfer of heat from the inside to the outside.

## Quieter



An additional benefit of triple glazing is improved noise reduction, with the standard specification achieving a superb decibel rating of 32.

The bubble gaskets used within the **eco energy plus** system are also beneficial with regards to noise reduction.

## Improved security



A triple glazed window has three panes of glass to protect your property, providing an extra barrier compared with two panes within a double glazed sealed unit.

There is the option to upgrade this further, by using laminated or toughened glass.