


## Experience the Future of Windows with Vacuum Glazing Technology


A step change in glazing performance for new build, failed unit replacement or period property renovation and upgrade.

 8.3mm Toughened Vacuum Insulated Glazing

 U Value <0.5w/M2k

 Sound Reduction Rw [C;Ctr] 36 [-2;-3]

 15 Year Guarantee

 Life Expectancy Exceeds 25 Years

 No 'Double Reflection' From Glass

### What's Vacuum Glazing?

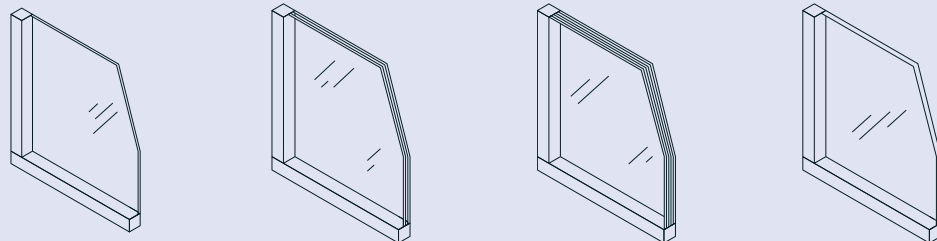
It's tempered Vacuum Insulated Glass (VIG) from Landglass. Vacuum glazing combines its best performances in thermal insulation and noise reduction which integrates seamlessly into high performance heritage windows or new windows.

Unlike other VIG technologies, Landglass offers a unique low temperature sealing technology and has successfully solved the problem of tempered glass annealing during the production, ensuring much higher vacuum and much longer application/service life.

### Applications

- *New Joinery & New Build homes and offices*
- *Integration into period properties*
- *Replacing failed sealed units in existing timber beaded windows*
- *Low level glazing & doors*

### Vacuum Glazing Vs Traditional Glass



Parameters	Single Glass	Insulated Glass	Triple Glass	Vacuum Glazing
U Value (W/m2K)	5.8	1.5	1.0	<0.5
Thickness	4mm	28mm	36mm	8mm
Visible Light Transmittance	90%	80%	71%	78%
The Weighted Sound Reduction Rw(C;Ctr)	29 (-2;-3)dB	31 (-2;-5)dB	32 (-1;-5)dB	36 (-2;-3)dB
Weight (Kg/M <sup>2</sup> )	8	20	30	20

What's so special about Vacuum glazing?	What does this mean For you?
<b>Outstanding thermal insulation</b>	<b>Constant U value &lt;0.5W/m2K regardless of inclination</b>
<b>With Rw 36dB in noise reduction</b>	<b>Making your rooms quieter</b>
<b>Fully tempered safety glass</b>	<b>When broken, it becomes small, less harmful particles. Suitable for low level glazing and doors</b>
<b>Slimmer structure</b>	<b>Can be retro-glazed into existing period windows</b>
<b>Environmental adaptability</b>	<b>No thermal expansion or contraction in the high vacuum chamber, same U value at different locations or elevation</b>
<b>Super long life</b>	<b>Over 25 years in service life and 15 years guarantee</b>
<b>Lead free and recycled</b>	<b>Recycled and embraces the circular economy</b>
<b>Usage of more free solar energy</b>	<b>Lower energy consumption and low emissions</b>

### Light and energy performance (1)

Vacuum Glass	Total Thickness (Mm)	LT (%)	LR ext (%)	LR int (%)	SHGC	U-Value (W/m2K)	Noise Reduction RW [C;Ctr]
4TL+0.3V+4T	8.3	80	14	13	0.59		36 [-2;-3]
5TL+0.3V+5T	10.3	80	13	13	0.58	<0.5	36 [-2;-3]
6TL+0.3V+6T	12.3	80	13	13	0.58		39 [-1;-2]

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