



VACUUM GLAZING UK

DATA TABLES

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www.vacuumglazing.co.uk

WHAT IS VACUUM GLAZING?



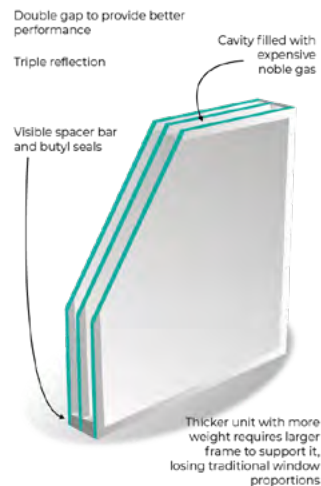
Vacuum Glazing is highly efficient double glazing. Like standard double glazing, it is made with two panes of glass separated by a cavity. However, instead of the usual gas or air-filled cavity, all air is extracted, and the unit is completely sealed.

The effectiveness of the vacuum means that the gap between the two panes can be incredibly narrow – around 0.3mm. This narrow gap makes Vacuum Glazing the perfect choice for heritage windows which emulate single glazing. When incorporated into triple glazing, performance is increased without requiring changes to window profiles.

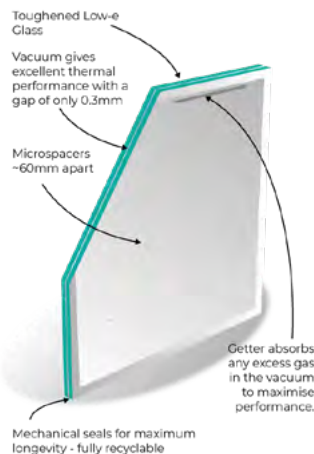
DOUBLE GLAZING



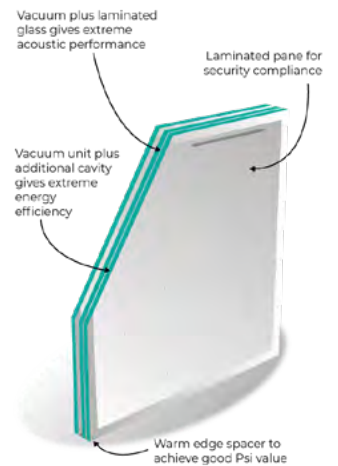
TRIPLE GLAZING



ENHANCE VACUUM GLAZING



OPTIMUM VACUUM GLAZING



VACUUM GLAZING vs TRADITIONAL GLASS



Even compared to Triple Glazing, Vacuum Glazing has:

- ✓ Higher energy efficiency
- ✓ Noise reduction
- ✓ Better light transmission
- ✓ Slimmer profile
- ✓ Longer Service Life

LANDVAC ENHANCE

Perfect for Heritage Restoration Projects and Conservation Areas

LandVac Enhance is specifically designed for heritage and conservation projects, offering a slim profile, centre pane U value of 0.4, and standard toughened durability, making it the ideal choice for preserving the authenticity of historical windows while enhancing energy efficiency.



WHY CHOOSE ENHANCE FOR WINDOW RESTORATION?

- ✓ Lowest sightlines of any toughened vacuum unit
- ✓ Toughened as standard
- ✓ 8x fewer microspacers than leading competitor
- ✓ Superior U-value and acoustic rating to any heritage unit on the market
- ✓ Neat and resilient metallic edge seal for longevity and performance
- ✓ Getter placed into glass slot to ensure consistency and quality

Look, no plugs!



COMPARISON: LandVac Enhance vs Single and Slim Double Glazing

	Single Glazing	Low Sightline Slim Double Glazing	LandVac Enhance Vacuum Glazing
Overall Thickness	4mm	11 - 16mm	8.3mm
U-Value	5.8	1.2 - 1.9	0.4
Acoustic Reduction (RW)	25dB	29 - 31dB	36 - 39dB
Estimated Lifespan	50+ years	Less than 5 years	50+ years

STANDARD LOW-E COATING (SINGLE SILVER COATING S1.10)

Suitable for most applications

	U-Value (W/m ² K)	Visible Light Transmittance	SHGC (g-value)	Weighted Sound Reduction Index
*4TL+0.3V+4T	0.4	76%	0.58	36dB
5TL+0.3V+5T	0.4	75%	0.58	37dB
6TL+0.3V+6T	0.4	74%	0.58	39dB

*Figures for this unit have been tested to EN410 and EN673. Other performance data is simulated from this physical testing.

PREMIUM LOW-E COATING (D80)

For reducing the G-Value in areas moderate solar gain.

	U-Value (W/m ² K)	Visible Light Transmittance	SHGC (g-value)	Weighted Sound Reduction Index
4TL+0.3V+4T	0.4	70%	0.40	36dB
5TL+0.3V+5T	0.4	69%	0.39	37dB
6TL+0.3V+6T	0.4	68%	0.39	39dB

SOLAR CONTROL COATING (XDTB0159)

Perfect for roofing or other areas of high solar gain.

	U-Value (W/m ² K)	Visible Light Transmittance	SHGC (g-value)	Weighted Sound Reduction Index
4TL+0.3V+4T	0.4	53%	0.33	36dB

ULTRACLEAR WITH SINGLE COATING S1.10

For areas where glass clarity is critical, or areas of lower solar gain.

	U-Value (W/m ² K)	Visible Light Transmittance	SHGC (g-value)	Weighted Sound Reduction Index
4TL+0.3V+4TUC	0.4	83%	0.68	36dB

LANDVAC PROTECT

Perfect for new builds or security conscious restoration projects where slim profile glazing is important.

LandVac Protect is specifically designed to achieve P2A security performance while also offering a slim profile, a centre pane. U-value of 0.4 and toughened durability. It's the ideal choice for authentic windows with extreme energy efficiency and security performance.



WHY CHOOSE LANDVAC PROTECT?

- ✓ Historic appearance with no double reflection.
- ✓ Part L compliant with centre pane U-value of 0.4 W/m²K.
- ✓ Part Q compliant with P2A laminate performance.
- ✓ Neat and resilient metallic edge seal for longevity and performance.
- ✓ Superior Acoustic Performance of 40dB.
- ✓ Slim 13.1mm width

	U-Value (W/m ² K)	Visible Light Transmittance	SHGC (g-value)	Weighted Sound Reduction Index
4TL+0.3V+4T(S1.10)+0.76P+4T	0.4	68%	0.55	40dB
4TL+0.3V+4T(D80)+0.76P+4T	0.4	58%	0.38	40dB
4TL+0.3V+4T (Solar Control) +0.76P+4T	0.4	43%	0.32	40dB
4TL+0.3V+4T (Ultra Clear) +0.76P+4T	0.4	75%	0.65	40dB

LANDVAC OPTIMUM

High performing glazing for future build projects

LandVac Optimum is best suited for contemporary new construction projects, providing cutting-edge technology with a slim profile, exceptional energy efficiency and standard toughened durability, making it the top choice for specifiers pushing the boundaries of modern design.



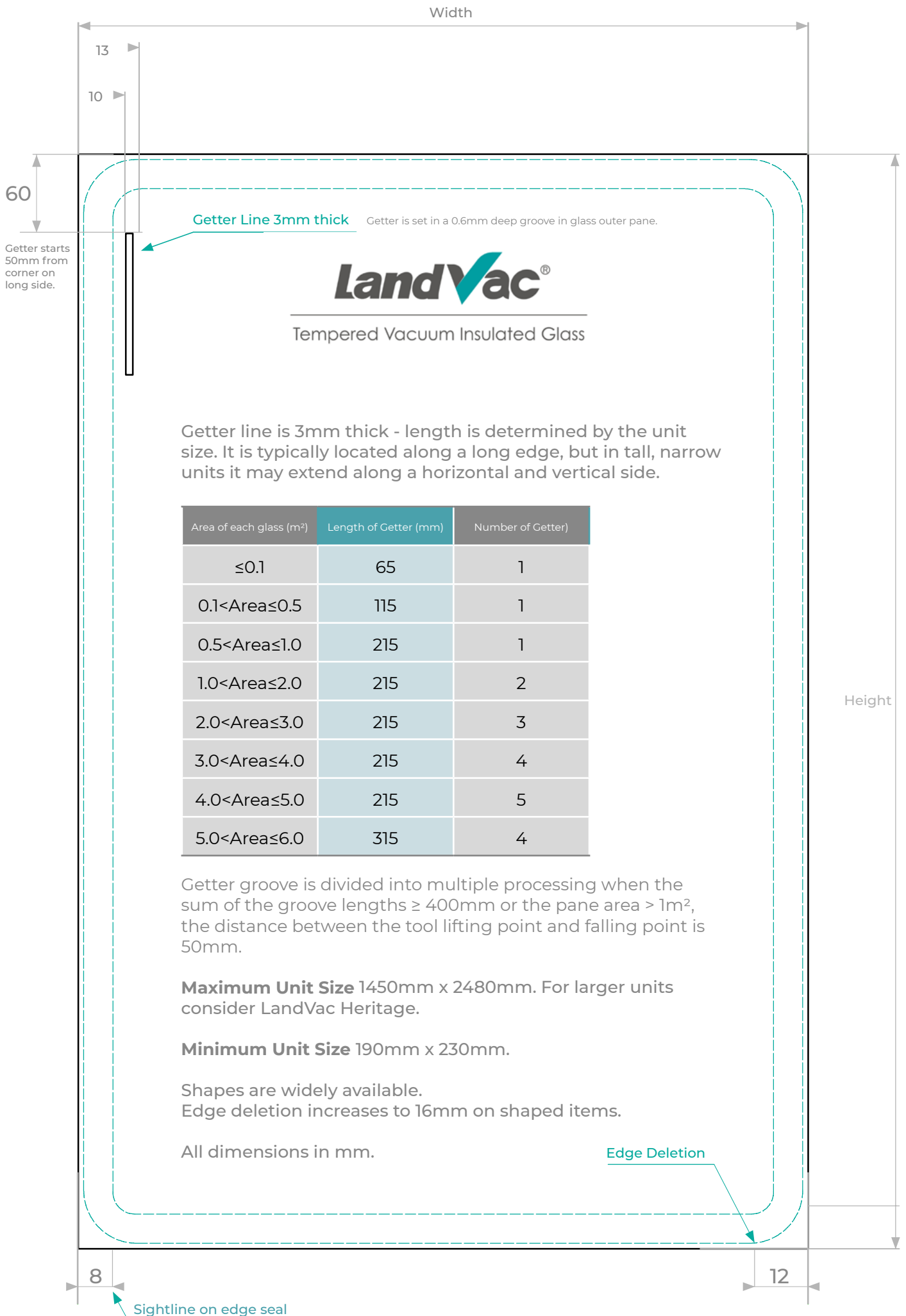
COMPARISON: LandVac Optimum vs Traditional Double and Triple Glazing

	Double Glazing	Triple Glazing	LandVac Optimum Vacuum Glazing
Overall Thickness	28mm	38 - 48mm	25.1mm
U-Value	1.0 - 1.9	0.7 - 1.0	0.4
Acoustic Reduction (RW)	~31dB	~35dB	41dB
Estimated Lifespan	10 - 25 years	10 - 25 years	10 - 25 years

LANDVAC OPTIMUM (Hybrid Vacuum Glass)

	U-Value (W/m ² K)	Visible Light		SHGC (g-value)	Shading Coefficient	Weighted Sound Reduction Index
		Transmittance	Outdoor Reflectivity			
4T+0.3V+4TL (S1.10) + 9Ar + 3 + 0.76P + 3	0.4	72%	18%	0.59	0.68	41dB
4T+0.3V+4TL (D80) + 9Ar + 3 + 0.76P + 3	0.4	63%	19%	0.46	0.53	41dB
4TL (S1.10) + 0.3V+4TL (S1.10) + 9Ar + 3 + 0.76P + 3	0.4	70%	15%	0.48	0.55	41dB
4TL (D80) + 0.3V+4TL (D80) + 9Ar + 3 + 0.76P + 3	0.4	54%	16%	0.32	0.37	41dB

A full range of laminates, coatings, glass types and cavities are available to construct a customised solution. Contact us to start the specification process.



LandVac®
Tempered Vacuum Insulated Glass

Getter line is 3mm thick - length is determined by the unit size. It is typically located along a long edge, but in tall, narrow units it may extend along a horizontal and vertical side.

Area of each glass (m ²)	Length of Getter (mm)	Number of Getter
≤0.1	65	1
0.1<Area≤0.5	115	1
0.5<Area≤1.0	215	1
1.0<Area≤2.0	215	2
2.0<Area≤3.0	215	3
3.0<Area≤4.0	215	4
4.0<Area≤5.0	215	5
5.0<Area≤6.0	315	4

Getter groove is divided into multiple processing when the sum of the groove lengths ≥ 400mm or the pane area > 1m², the distance between the tool lifting point and falling point is 50mm.

Maximum Unit Size 1450mm x 2480mm. For larger units consider LandVac Heritage.

Minimum Unit Size 190mm x 230mm.

Shapes are widely available.
Edge deletion increases to 16mm on shaped items.

All dimensions in mm.

Edge Deletion

Sightline on edge seal

With an impressive annual capacity exceeding 400,000m², LandVac is produced in a cutting-edge Smart Factory, showcasing the scale of its operation. LandGlass, the manufacturer, has long been dedicated to continuous improvement and innovation, maintaining a leading position in the advancement of Vacuum Glazing technology for many years. Their unwavering commitment to Research & Development has culminated in the creation of the finest performing and most aesthetically pleasing product available.



Vacuum Glazing UK Ltd. proudly serves as the exclusive distributor of LandVac glazing in the UK market. LandVac is accessible to manufacturers, glass suppliers, local installers, and the general public through our network of distribution partners across the UK. Whether for refurbishment or complete replacement, these companies possess extensive knowledge of the product and have established networks to ensure your glazing is delivered efficiently and cost-effectively.

1st VACUUM
GLASS LTD

1st Vacuum Glass Ltd

Speciality: All Types of Glass and Glazing Area:

South, East and Central England

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