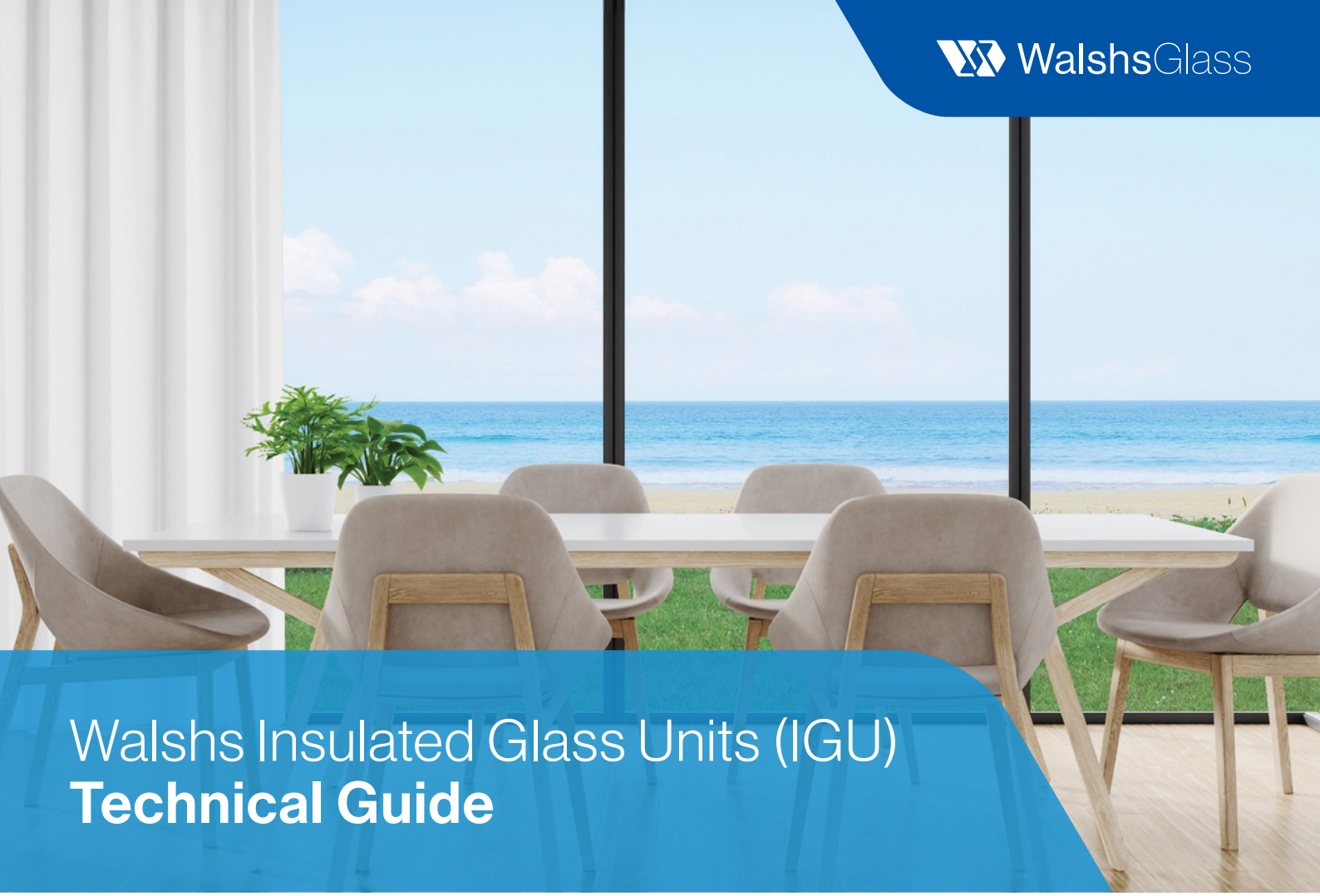

Walshs Insulated Glass Units (IGU) **Technical Guide**

Understanding this guide

Nominal Thickness	Identifies the glass thickness. For double-glazed products, the first and last numbers is the thickness of each glass panel, and the middle number is the width of the gap in-between.
Visible Light Transmission	The percentage of visible light that passes directly through the glass. The higher the percentage, the more daylight gets through.
Visible Light Reflection	The percentage of visible light reflected toward the exterior.
Solar Transmission	The percentage of normal incident visible light and solar energy that passes directly through the glazing.
Solar Reflection	The percentage of normal incident visible light and solar energy reflected toward the exterior.
UV Transmission	The percentage of UV light transmitted measured in the light range of wave lengths shorter than 380 nanometres. A lower number is better.
U Value	The measure of the rate of heat gain or loss through glazing caused by environmental differences between indoor and outdoor air. The lower the value the better the insulation.
SHGC – Solar Heat Gain Coefficient	The proportion of total solar radiation that is transferred through glass in normal circumstances. A lower number indicates a better performance.
Shading Coefficient	The ratio of solar heat gain through glass relative to that through 3mm clear glass. A lower number indicates a better performance.
RW – Weighted Sound Reduction Index	Used to measure the effectiveness of the glass as a noise insulator. Measured in decibels (db) the higher the RW value, the greater the reduction in noise.
Coated surface position ie: (#2)	Where # appears next to a product name, i.e. (#2), this identifies the position of the coated surface of the glass. Glass surfaces are counted from the exterior to the interior of the building.

March 2025

TwinSeal™ Performance Plus

Walshs TwinSeal™ Performance Plus DGU is a thermally insulating DGU product that meets the highest performance and quality standards, designed to exceed your expectations on transparency, thermal insulation and solar heat gain.

The introduction of strict energy efficiency legislation for commercial buildings across the country is helping Architects consider the use of High Performance Low E DGU's and the benefits of TwinSeal™ Performance Plus Double Glazing over traditional DGU glazing methods.

Product Name	Nominal Thickness mm	Visible Light Trans. %	Visible Light Reflect Out %	Solar Energy Trans. %	Solar Energy Reflect Out %	UV Trans. %	U Value Argon	SHGC	RW
Walshs TwinSeal™ Performance Plus									
Clear (#3)	4+12+4	80	12	54	27	49	1.4	0.60	31
	5+12+5	80	12	52	25	46	1.4	0.58	32
	6+12+6	79	12	51	24	43	1.4	0.57	33
Grey (#3)	4+12+4	50	7	35	15	23	1.4	0.41	31
	5+12+5	43	7	30	13	18	1.4	0.36	32
	6+12+6	37	6	27	11	15	1.4	0.33	33
Acid Etch (#3)	4+12+6	80	12	54	27	49	1.4	0.60	31
	6+12+6	79	12	51	24	43	1.4	0.57	33
Walshs TwinSeal™ Performance Plus Laminate									
Clear (#3)	6.38+12+6	79	12	48	20	<1	1.4	0.55	35
Grey (#3)	6.38+12+6	38	6	28	13	<1	1.4	0.35	35
Translucent (#3)	6.38+12+6	55	17	32	28	<1	1.4	0.50	35
Walshs TwinSeal™ Performance Plus Serenity									
Clear (#3)	6.5+12+4	79	12	49	20	<1	1.4	0.54	38
	6.5+12+5	79	12	48	20	<1	1.4	0.54	39
	6.5+12+6	78	12	48	20	<1	1.4	0.54	39
Grey (#3)	6.88+12+4	38	6	28	13	<1	1.4	0.35	38
	6.88+12+5	38	6	28	13	<1	1.4	0.35	39
	6.88+12+6	38	6	28	13	<1	1.4	0.35	39

The data is measured using glass only and all care should be taken when evaluating our published data that the same environmental conditions have been used.
For the most up-to-date information, please visit our website. All performance data is calculated using LBL Windows 7.4 software. NFRC 100-2001 conditions have been used.