DID YOU KNOW?

In an average home, 40% of heat loss and 87% of heat gain is through glazing*.

*yourhome.gov.au 2016

Insulglass Clear™

Insulglass Clear IGU consists of either Clear Toughened glass on either side or Clear Annealed glass with a spacer in between consisting of air or argon to enhance energy efficiency outcomes for your windows and doors.

BENEFITS

Comfortable and quieter home

In a home consisting of standard single-glazed window, both heat and noise gets easily transferred – internally or externally. In summer, external natural sunlight heats up your house and in winter, internal heat escapes from your home to the outside either way disturbing the thermal comfort inside your home. You may pay more for heating and cooling costs. Not to mention, all year-round noise can easily pass through the window. Insulglass Clear IGU is designed to keep heat in or out, noise control, maintenance and security compared to Single-Glazed glass windows.

Low energy bills

Insulglass Clear provides required insulation (U-Value) properties to the glass in windows thereby acting as a barrier to heat flow and is essential for keeping your home warm in winter and cool in summer. A well-insulated and well-designed windows can make your home more comfortable, dramatically reduce your energy costs and help to create a brighter, cleaner and healthier environment.

Reduces condensation

Condensation on your windows can cause a number of problems that can potentially damage your timber frames. High moisture levels are also breeding grounds for mould. Insulglass Clear is designed to virtually eliminate these problems. The gas in-between the two panes of glass will ensure that the inside glass is kept at room temperature. Condensation issues will become a thing of the past.

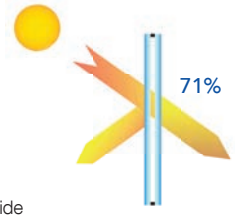
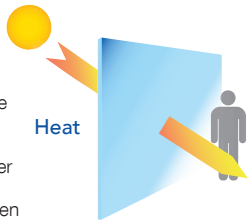
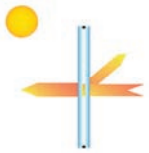
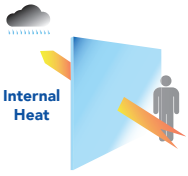
Enhance your home value

Insulglass Clear IGU's will help your home to achieve a higher Star Energy rating. While every individual case will be different, higher star ratings or more energy efficient homes could generally translate into higher sale prices for your homes.

Insulglass Clear Performance Data

Nominal Thickness (mm)	Visible Light		Solar		UV Trans	U Value		Shading Co.	SHGC
	Trans	Reflect	Trans	Reflect		Air	Argon		
4 + 12 + 4	80%	15%	69%	13%	51%	2.7	2.6	0.86	0.75
5 + 12 + 5	79%	15%	63%	12%	47%	2.7	2.5	0.83	0.72
6 + 12 + 6	78%	15%	62%	12%	44%	2.7	2.5	0.82	0.71
8 + 12 + 6	77%	14%	57%	11%	42%	2.7	2.5	0.76	0.66
10 + 12 + 6	76%	14%	54%	10%	39%	2.7	2.5	0.73	0.64
12 + 12 + 6	75%	14%	51%	10%	37%	2.6	2.5	0.71	0.61

INSULGLASS CLEAR PRODUCT COMPARISON

Properties	Insulglass Clear Toughened IGU	Insulglass Clear IGU	Clear Single Glazing
Comfort: Solar Heat Gain Coefficient The SHCG ratio represents how much solar energy is directly transmitted and absorbed into a building. If you're in a warm region, look out for a **lower SHCG ratio**. Visible Light Transmission Visible Light Transmission represents natural daylight entering the room. Higher daylight increases occupant productivity and comfort in the room. Low Visible Light Transmission as in Tinted Glasses provide privacy when it is required most.	6mm I 12mm Argon I 6mm SHGC = 0.71 U-Value = 2.70 **Medium Solar Heat Gain (71%)**  Allows only 71% of heat inside the room		6mm Clear SHGC = 0.82 U-Value = 5.8 **Very High Solar Heat Gain (82%)**  Lets in 82% of heat inside the room; however on a hot summer day could it create an oven effect
Energy Efficiency U-Value The U-Value measures how well your windows insulate you against the cold and heat. **The lower the U value, the better the insulation** providing you with greater comfort and cost savings.	**Medium Heat Transfer** Insulglass Clear has 53% better insulation properties compared to Single Glazed window; capturing half of internal heat inside the room. 		**High Heat Transfer**  With minimal insulation value no heat is retained inside your room

All performance data is determined– using LBL Windows 6.3 software, NFRC 100-2001 conditions have been used. Where # appears, ie (#3 or #2) in product name, this identifies the position of the coated surface of the glass. Glass surfaces are counted from the exterior to the interior of the building.

The first number is the outer glass thickness, +12 Air is the width of the airspace, then the thickness of the inner panel of the unit. Thickness tolerances are: 3-6mm (±0.2mm); 8-12mm (±0.3mm); 15mm (±0.5mm); 19mm (±1.0mm).

Recommendations are based on performance data. Please consult with your builder, architect or consultant before deciding on any Australian Glass Group product for your requirements.

Product Code - IN CLR 2016

Our commitment to quality is underpinned by accreditation to both AS/ NZ 4666 (IGU) and AS/ NZ 2208 Safety Glazing Materials In Buildings.

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