

Superior Insulation with a full range of variations to suit your performance needs







Insulglass[®] Insulated Glass Units (IGU) consist of 2 or more pieces of glass manufactured as one unit with a trapped air gap separated by a desiccant filled spacer bar and sealed with a primary and secondary seal for structure and guaranteed performance.



Most commonly utilised as a Double Glazed Unit (DGU) you can also change the two glass types to allow multiple aesthetics and applications.

DGU's work extremely well in both cold and hot environments. Superior insulation when it's cold – keeping the heat in and the cold out while more efficient use of your cooling system when it's hot – keeping it cooler inside.

We also fill the air space with Argon gas as standard* to add further insulation benefits and we offer a comprehensive range of glass options to suit multiple performance needs.

When adding High Performance LowE coated glass options you supercharge your Insulation and can also significantly reduce Solar Heat Gain – if required. * May exclude some specialised sizes.

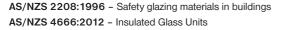
Insulglass® Benefits*:

- Superior Insulation compared to anything single glazed (low U-Value)
- Control Solar Heat Gain (High, Mid or Low SHGC)
- Reduce Heating and Cooling loads
- Reduce Heating and Cooling energy Costs
- Increase the size of your window/door without compromising performance
- Control Visible Light levels / Glare factors
- Ultraviolet (UV) protection against fading factors
- Virtually eliminate Internal Condensation
- Superior Acoustics versus any monolithic option
- High Performance coated LowE options to stay ahead of trajectory increases in Energy Efficiency demands from Building Codes

*Utilising the full range of Insulglass® options

Australian Glass Group also understands the vital importance of certification and compliance of glass products. Our products are manufactured and certified to Australian Standards by an international certification body, Bureau Veritas. Relevant compliance is certified and available on request in key areas including;





Energy Efficient Double Glazing





Visible Light Transmittance – VLT **Control Natural Light levels**

Heating Factor U-Value – W/m²-K A Warmer home in Winter



Cooling Factor

Solar Heat Gain Coefficient – SHGC A Cooler home in Summer



Selectivity

Light to Solar Gain ratio (LSG) Allow Light in but block the Heat

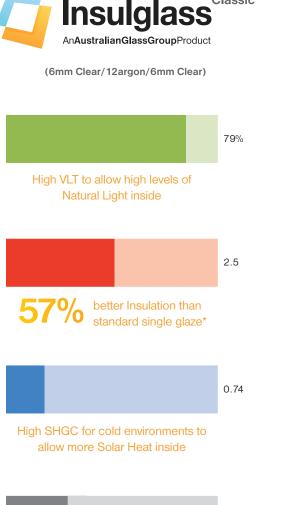
*Comparisons based on centre of glass performance data in NFRC standards using 6mm Clear Float base comparisons of 88% VLT, 5.8 U-Value and 0.82 SHGC against 6/12/6 Double Glazed make ups with argon gas.

Proudly manufactured, stocked and supported in Australia by Australian Glass Group®

Australian Glass Group offers a full customised range with all Insulglass[®] offerings

- Warm Edge spacer for further Thermal performance
- Tempershield[®] toughened options for strength and Grade A safety
- Obscure Pattern and Acid Etch for privacy
- Laminated for security and Grade A safety available in:
- Standard laminate
- White translucent laminate for privacy
- Audioshield[®] acoustic laminate for superior sound performance





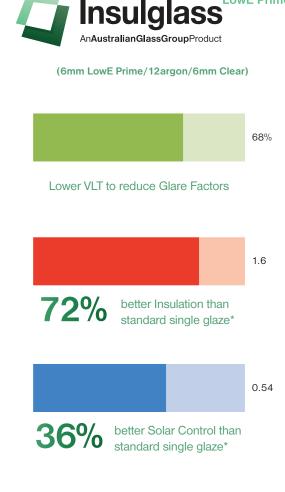
Classic



A full range of non-coated DGU options, surpassing any single glazed option in terms of insulation

Insulglass Classic [®] Performance Data				
Double Glazed Units (DGU)	Colour	Visible Light VLT	Insulation U-Value	Solar Control SHGC
Insulglass Classic [®] – Clear				
4mm Clear/12mm argon/4mm Clear	Clear	81	2.6	0.77
5mm Clear/12mm argon/5mm Clear	Clear	80	2.6	0.76
6mm Clear/12mm argon/6mm Clear	Clear	79	2.5	0.74
8mm Clear/12mm argon/8mm Clear	Clear	79	2.5	0.71
Insulglass Classic [®] – Grey				
4mm Grey/12mm argon/4mm Clear	Grey	51	2.6	0.58
6mm Grey/12mm argon/6mm Clear	Grey	40	2.5	0.49
Insulglass Classic [®] – Clear Laminate				
4mm Clear/12mm argon/6.38mm Clear lam	Clear	81	2.5	0.76
6mm Clear/12mm argon/6.38mm Clear lam	Clear	80	2.5	0.73
Insulglass Classic [®] - White Translucent Laminate				
6.38mm WTrans lam/12mm argon/4mm Clear	White	62	2.5	0.70
6.38mm WTrans lam/12mm argon/6mm Clear	White	61	2.5	0.68

Note: Data using centre of glass performance in NFRC standards with argon gas.



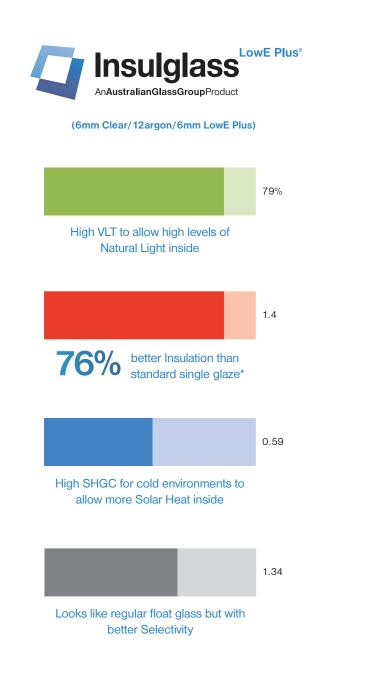
LowE Prime®



An ideal LowE for warmer climates to minimise Glare and a balance of Solar Control & great Insulation

Insulglass LowE Prime [®] Performance Data				
Double Glazed Units (DGU)	Colour	Visible Light VLT	Insulation U-Value	Solar Contro SHGC
Insulglass LowE Prime [®] – Clear				
4mm LowE Prime/12mm argon/4mm Clear	Neutral	69	1.7	0.55
5mm LowE Prime/12mm argon/5mm Clear	Neutral	68	1.7	0.54
6mm LowE Prime/12mm argon/6mm Clear	Neutral	68	1.6	0.54
8mm LowE Prime/12mm argon/8mm Clear	Neutral	67	1.6	0.52
Insulglass LowE Prime [®] – Grey				
4mm Grey/12mm argon/4mm LowE Prime	Grey	43	1.7	0.48
6mm Grey/12mm argon/6mm LowE Prime	Grey	34	1.6	0.40
Insulglass LowE Prime [®] – Clear Laminate				
4mm LowE Prime/12mm argon/6.38mm Clear lam	Neutral	69	1.6	0.55
6mm LowE Prime/12mm argon/6.38mm Clear lam	Neutral	68	1.6	0.54
Insulglass LowE Prime [®] – White Translucent Laminate				
4mm LowE Prime/12mm argon/6.38mm WTrans lam	White	52	1.6	0.53
6mm LowE Prime/12mm argon/6.38mm WTrans lam	White	52	1.6	0.52

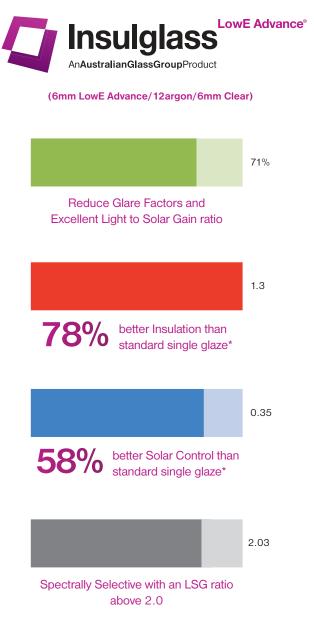
Note: Data using centre of glass performance in NFRC standards with argon gas and LowE Prime coating to surface #2 except the Grey options having coating on surface #3.



An ideal LowE for colder climates with maximum Visible Light, Passive Heat Gain & excellent Insulation

Insulglass LowE Plus [®] Performance Data					
Double Glazed Units (DGU)	Colour	Visible Light VLT	Insulation U-Value	Solar Control SHGC	
Insulglass LowE Plus [®] – Clear					
4mm Clear/12mm argon/4mm LowE Plus	Clear	81	1.4	0.61	
5mm Clear/12mm argon/5mm LowE Plus	Clear	80	1.4	0.60	
6mm Clear/12mm argon/6mm LowE Plus	Clear	79	1.4	0.59	
8mm Clear/12mm argon/8mm LowE Plus	Clear	78	1.4	0.57	
Insulglass LowE Plus® – Grey					
4mm Grey/12mm argon/4mm LowE Plus	Grey	51	1.4	0.44	
6mm Grey/12mm argon/6mm LowE Plus	Grey	39	1.4	0.36	
Insulglass LowE Plus® – Clear Laminate					
6.38mm Clear lam/12mm argon/4mm LowE Plus	Clear	80	1.4	0.56	
6.38mm Clear lam/12mm argon/6mm LowE Plus	Clear	79	1.4	0.56	
Insulglass LowE Plus® – White Translucent laminate					
6.38mm WTrans lam/12mm argon/4mm LowE Plus	White	61	1.4	0.46	
6.38mm WTrans lam/12mm argon/6mm LowE Plus	White	60	1.4	0.45	

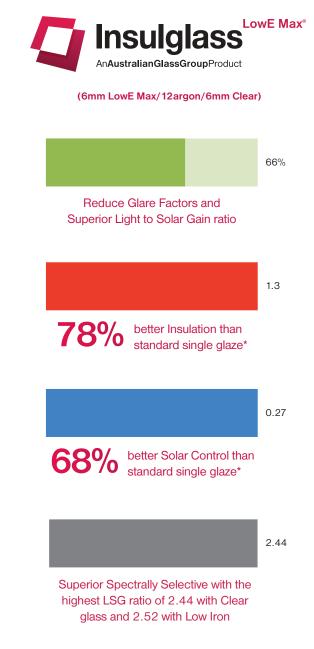
Note: Data using centre of glass performance in NFRC standards with argon gas and LowE Plus coating to surface #3.



Excellent performance to advance both Solar Control and Insulation, without compromising Visible Light

Insulglass LowE Advance [®] Performance Data					
Double Glazed Units (DGU)	Colour	Visible Light VLT	Insulation U-Value	Solar Control SHGC	
Insulglass LowE Advance [®] – Clear					
6mm LowE Advance/12mm argon/4mm Clear	Clear	72	1.3	0.35	
6mm LowE Advance/12mm argon/5mm Clear	Clear	71	1.3	0.35	
6mm LowE Advance/12mm argon/6mm Clear	Clear	71	1.3	0.35	
8mm LowE Advance/12mm argon/8mm Clear	Clear	70	1.3	0.34	
Insulglass LowE Advance [®] – Grey					
6mm Grey/12mm argon/6mm LowE Advance	Grey	35	1.3	0.26	
8mm Grey/12mm argon/8mm LowE Advance	Grey	27	1.3	0.22	
Insulglass LowE Advance® – Clear Laminate					
6mm LowE Advance/12mm argon/6.38mm Clear lam	Clear	71	1.3	0.35	
8mm LowE Advance/12mm argon/8.38mm Clear lam	Clear	71	1.3	0.34	
Insulglass LowE Advance [®] – White Translucent Laminate					
6mm LowE Advance/12mm argon/6.38mm WTrans lam	White	54	1.3	0.34	
8mm LowE Advance/12mm argon/6.38mm WTrans lam	White	54	1.3	0.33	

Note: Data using centre of glass performance in NFRC standards with argon gas and LowE Advance coating to surface #2 except the Grey options having coating on surface #3.



Superior performance to maximise both Solar Control and Insulation without compromising Visible Light

Insulglass LowE Max [®] Performance Data				
Double Glazed Units (DGU)	Colour	Visible Light VLT	Insulation U-Value	Solar Contro SHGC
Insulglass LowE Max [®] – Clear				
6mm LowE Max/12mm argon/4mm Clear	Neutral	67	1.3	0.27
6mm LowE Max/12mm argon/5mm Clear	Neutral	66	1.3	0.27
6mm LowE Max/12mm argon/6mm Clear	Neutral	66	1.3	0.27
8mm LowE Max/12mm argon/8mm Clear	Neutral	65	1.3	0.27
Insulglass LowE Max [®] – Low Iron				
6mm LowE Max/12mm argon/6mm Low Iron	Neutral	68	1.3	0.27
Insulglass LowE Max [®] – Grey				
6mm Grey/12mm argon/6mm LowE Max	Grey	33	1.3	0.22
8mm Grey/12mm argon/8mm LowE Max	Grey	25	1.3	0.19
Insulglass LowE Max [®] – Clear Laminate				
6mm LowE Max/12mm argon/6.38mm Clear lam	Neutral	66	1.3	0.27
Insulglass LowE Max [®] – White Translucent Lamir	nate			
6mm LowE Max/12mm argon/6.38mm WTrans lam	White	51	1.3	0.26

Note: Data using centre of glass performance in NFRC standards with argon gas and LowE Max coating to surface #2 except the Grey options having coating on surface #3.





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