

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.

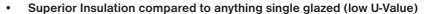
DGU's work extremely well in both cold and hot environments. Superior insulation when it's cold – keeping the heat in and the cold out while more efficient use of your cooling system when it's hot – keeping it cooler inside.

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.

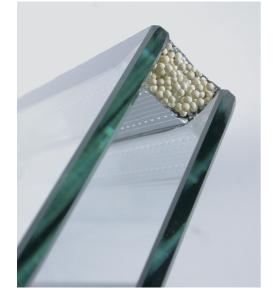
 * May exclude some specialised sizes.





- 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



Natural Light Factor

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

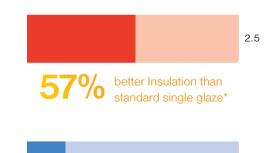




(6mm Clear/12argon/6mm Clear)



High VLT to allow high levels of Natural Light inside



High SHGC for cold environments to allow more Solar Heat inside



High VLT but also high SHGC

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

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.

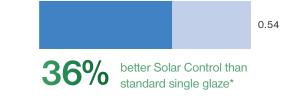


(6mm LowE Prime/12argon/6mm Clear)



Lower VLT to reduce Glare Factors







A balance of VLT and SHGC

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)	Visibl Colour Light VLT		Insulation U-Value	Solar Control 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.



(6mm Clear/12argon/6mm LowE Plus)



High VLT to allow high levels of Natural Light inside





High SHGC for cold environments to allow more Solar Heat inside



Looks like regular float glass but with better Selectivity

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	ss 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.



(6mm LowE Advance/12argon/6mm Clear)



Reduce Glare Factors and Excellent Light to Solar Gain ratio







Spectrally Selective with an LSG ratio above 2.0

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

nsulglass 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 L	.aminate			
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.

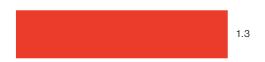
Insulglass

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(6mm LowE Max/12argon/6mm Clear)



Reduce Glare Factors and Superior Light to Solar Gain ratio



78% better Insulation than standard single glaze*



68% better Solar Control than standard single glaze*



Superior Spectrally Selective with the highest LSG ratio of 2.44 with Clear glass and 2.52 with Low Iron

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

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

Australian Glass Group are proud members of:











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