



Thermal insulation performance is becoming more of a concern when designing for differences between internal and external temperatures.

As night becomes day and the seasons change around us, the process of heat travel between glass can be slowed down and controlled using a high performance double glazed unit (DGU).

Cooling Brothers Ultra Cool-E is a soft coat DGU and will assist in maintaining a comfortable living environment by reducing the loss of warmth in cold temperatures and reduce heat gain in the summer months, without compromising your view.

In addition to the standard clear glass, Ultra Cool-E is also available in green, grey, bronze and dark grey offering lower reflectance, reduced glare and improved solar control.



ULTRA COOL-E OPTIONS - DGU WITH AIR (NFRC)

Thickness	Outside Glass	Inside Glass	Visible			Solar		UValue	SHGC	Shading Co.
			Trans.	Refl. Out	Refl. In	Trans.	Refl. Out			
4+12+4	Ultra Cool-E #2	Clear	70	14	15	30	49	1.62	0.32	0.37
4+12+4	Grey	Ultra Cool-E #3	44	8	12	20	25	1.62	0.29	0.33
4+12+4	Bronze	Ultra Cool-E #3	48	9	12	21	28	1.62	0.3	0.35
6+12+6	Ultra Cool-E #2	Clear	69	14	15	29	46	1.61	0.32	0.37
6+12+6	Green	Ultra Cool-E #3	58	12	13	21	12	1.61	0.31	0.36
6+12+6	Grey	Ultra Cool-E #3	34	7	12	15	17	1.61	0.25	0.29
6+12+6	Bronze	Ultra Cool-E #3	35	7	12	15	19	1.61	0.25	0.29
6+12+6	Dark Grey	Ultra Cool-E #3	6	4	11	3	4	1.61	0.11	0.12
8+12+8	Ultra Cool-E #2	Clear	68	13	15	28	42	1.60	0.32	0.37
10+12+10	Ultra Cool-E #2	Clear	67	13	15	27	39	1.59	0.32	0.37

The performance values shown above represent NOMINAL VALUES for the centre of glass with no spacer system or framing. Slight variations may occur due to manufacturing tolerances, point of manufacture, and type of instrumentation used to measure the optical properties. For configurations which include ceramic frit coating, the actual values may vary significantly based upon the thickness and composition of the frit. For configurations with coatings laminated facing the PVB, there may be a noticeable colour change.

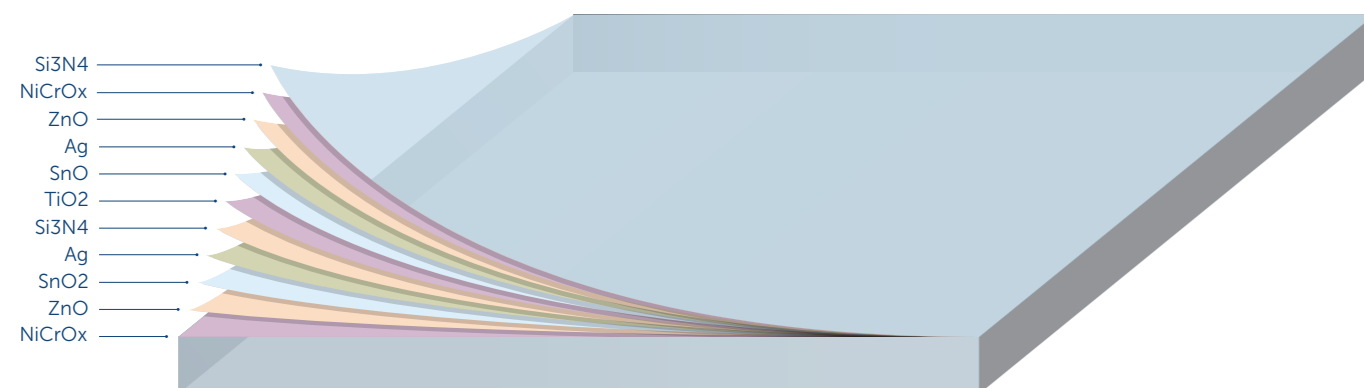
Cooling Brothers recommends a full size mock-up to be approved. Calculations in this report are based on NFRC 2010

Please note that the THERMAL STRESS GUIDELINE is only a rough reference to the thermal safety of a glazing. Other factors such as the size of glass areas, shapes and patterns, glass thickness, glass damaged during shipping, handling or installation, orientation of the building, exterior shading, overhangs/fins that reduce wind speed, and areas with high daily temperature fluctuations can all increase the probability of thermal breakage. The results shown are not for any specific glazing installation and do not constitute a warranty against glass breakage.

SOFT COATED GLASS LAYERS

Soft coat (also known as sputter coat) consists of multiple layers of metal and oxides whose combined thickness is only 1/1000th the thickness of a human hair.

Ultra-Cool E offers the best available performance in regards to high VLT (Visible Light Transmittance) and low SHGC (Solar Heat Gain Coefficient). With a double silver coating the result is high neutral visible light, insulation and superior solar control. Additionally, Ultra Cool E will reduce sound transmission to further improve building comfort.



HOW TO SPECIFY



Ultra Cool-E is available in various combinations of glass, thickness, colours and shapes. For a Ultra Cool-E solution tailored to suit your requirements, please call us on (08) 6104 1777, and ask to speak with a glass consultant.



Double Glazing

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