



# ULTRACOOOL-E™

## 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.