

SUNERGY® GLASS
ENERGY SOLUTIONS



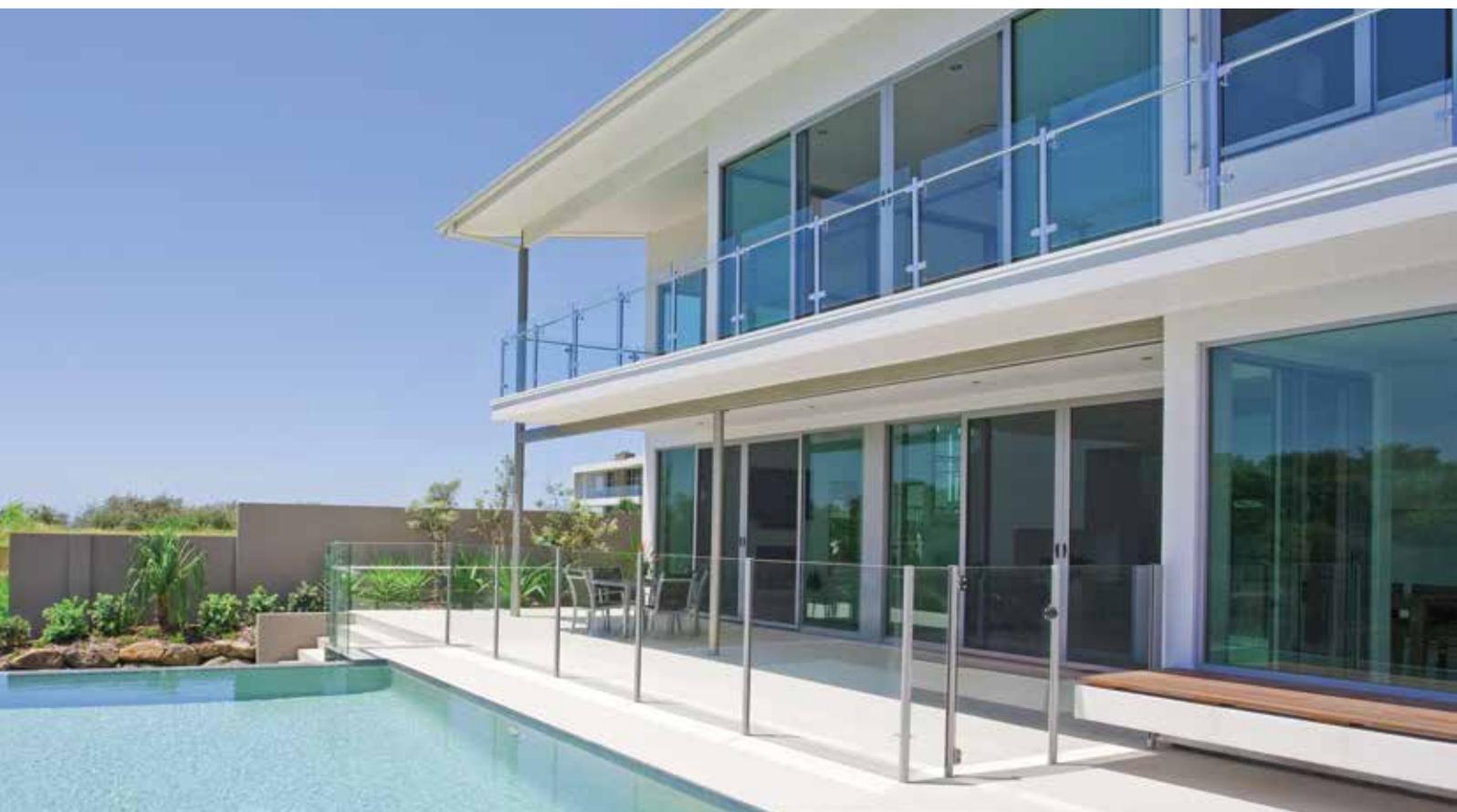
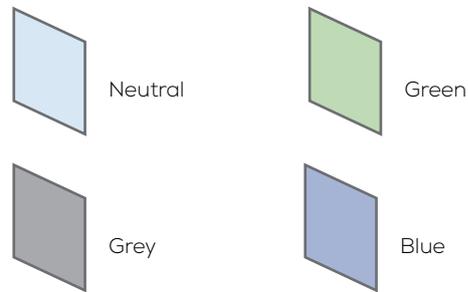
Sunergy® is a toned glass with a unique, durable and virtually invisible metal oxide coating. The coating provides Sunergy® with improved solar control (lower SHGC) and thermal insulation (low U-values). Compared to other low-E coated glass products on the market, Sunergy® is an excellent response to current architectural trends desiring neutrality and low visual reflectance.

The unique coating acts as a filter, blocking out the sun's direct heat while maintaining a high level of natural daylight. The same coating helps to reflect heat back into the building. The product works best when combined in an insulated glass unit for improved energy efficiency over ordinary single clear glass. It is available in a range of tones or colours to blend or contrast any architecture. Each tone also offering a different level of energy performance.

FEATURES AND APPLICATIONS

- > Transparent coating – Low-E coating consists of a microscopically thin, virtually invisible, metal or metal oxide layer deposited on the glass;
- > Solar and thermal control whilst allowing higher levels of natural daylight or visible light transmission;
- > Helps reduce summer heat gain and winter heat loss through improvements in SHGC and U-values when compared to ordinary non coated glass;
- > Reduces heating and cooling energy costs;
- > Reduces ultra-violet substantially;
- > Improves occupant comfort, reduces condensation build up in IGU's;
- > Coating is low reflecting and durable; Many colour options including Neutral, Grey, Cool (light grey), Green and Azur (blue);
- > Best performance achieved in IGU's though when single glazed can still provide superior performance and higher thermal insulation compared to clear single glass;
- > Available annealed, toughened and laminated form.

COLOUR OPTIONS



SUNERGY® GLASS SINGLE GLASS



SINGLE GLASS PERFORMANCE VALUES

COLOUR AND TYPE	VLT VISIBLE LIGHT TRANSMISSION %	VLR VISIBLE LIGHT REFLECTANCE EXTERNAL %	VLRI VISIBLE LIGHT REFLECTANCE INTERNAL %	SHGC	U-VALUE W/M2K
LOW-E COATED					
SUNERGY® (2) LOW-E					
4mm Neutral	67	9	10	0.59	4.2
5mm Neutral	67	9	10	0.59	4.1
6mm Neutral	69	9	10	0.59	4.0
8mm Neutral	67	8	10	0.56	3.9
10mm Neutral	68	8	10	0.56	3.9
6mm Dark Blue	41	6	9	0.39	4.0
6mm Green	56	7	9	0.42	4.0
6mm Grey	33	5	9	0.41	4.0
8mm Grey	26	5	8	0.37	4.0
SUNERGY® LAMINATED (4) LOW-E					
6.38mm Neutral	67	9	11	0.57	4.0
8.38mm Neutral	65	8	10	0.54	4.0
10.38mm Neutral	65	8	10	0.54	3.9
12.38mm Neutral	66	8	10	0.53	3.9
17.52mm Neutral (8 + 8)	63	8	10	0.49	3.7
21.52mm Neutral (10 + 10)	62	8	10	0.49	3.7
6.38mm Grey	34	5	9	0.44	4.0
8.38mm Grey	33	5	9	0.42	4.0
10.38mm Grey	33	5	9	0.42	3.9
12.38mm Grey	33	5	9	0.41	3.9
17.52mm Grey (8 + 8)	32	5	9	0.39	3.7
21.52mm Grey (10 + 10)	31	5	9	0.38	3.7
11.52mm Sunergy Grey	32	5	9	0.40	3.8
13.52mm Sunergy Grey	32	5	9	0.39	3.8
6.38mm Green	54	7	10	0.51	4.0
8.38mm Green	52	7	10	0.49	4.0
10.38mm Green	54	7	10	0.49	3.9
12.38mm Green	53	7	10	0.48	3.9
11.52mm Sunergy Green	54	7	9	0.40	3.8
13.52mm Sunergy Green	53	7	9	0.40	3.8

INSULATED GLASS UNITS PERFORMANCE VALUES

	VLT VISIBLE LIGHT TRANSMISSION	VLR VISIBLE LIGHT REFLECTANCE	VLRi VISIBLE LIGHT REFLECTANCE	SHGC	U-VALUE
COLOUR AND TYPE	%	EXTERNAL %	INTERNAL %		W/M2K
DUO PLUS (IGU'S)					
SUNERGY® LOW-E					
4mm Sunergy Neutral (2) 12mm/ 4mm Clear	60	12	16	0.50	1.9
6mm Sunergy Neutral (2) 12mm/ 6mm Clear	61	12	16	0.50	1.8
8mm Sunergy Neutral (2) 12mm/ 6mm Clear	60	12	15	0.47	1.8
10mm Sunergy Neutral (2) 12mm/ 8mm Clear	59	12	15	0.47	1.8
6mm Green Sunergy (2) 12mm/ 6mm Clear	50	9	15	0.32	1.8
6mm Grey Sunergy (2) 12mm/ 6mm Clear	30	6	15	0.32	1.8
8mm Grey Sunergy (2) 12mm/ 8mm Clear	23	6	14	0.28	1.8
6.38mm Sunergy Neutral (2) 12mm/ 6mm Clear	60	12	16	0.48	1.8
6.38mm Sunergy Grey PVB (2) 12mm/ 6mm Clear	30	6	15	0.34	1.8

Data listed based on NFRC 100-2010 with the following:

Single glass data - Low-E coating surface #2 for single glass and surface #4 for laminated glass.

IGU glass data - Low-E coating to surface #2 of IGU.

VLT% - refers to % visible light transmittance. Simply a measure of the amount of natural daylight the glass allows through.

VLR% - refers to visible reflectivity of the glass viewed from the outside. VLRi% - refers to visible reflectivity when viewed from inside.

SHGC - refers to Solar Heat Gain Co-efficient and is a common measure used in regards to the cooling of the building. The lower the number, the more efficient the glass in reducing the sun's direct energy impact through the glass.

U-Value - a measure of the thermal insulation of the glass and expressed as watts per square metre. The lower the number the better the performance of the glazing.

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