

HIGH PERFORMANCE GLASS CHARTS

SINGLE GLAZED PRODUCT

	Light Transmission	SHGC	S C	U Value	Recommended Elevation
6mm Clear	88%	0.82	0.95	5.80	N,W,E.
6mm Grey	42%	0.67	0.58	5.80	N,W,E
6mm Green	77%	0.61	0.71	5.80	N,W,E
6mm Bronze	50%	0.62	0.71	5.80	W,E
6mm SuperGreen	67%	0.52	0.61	5.80	N,W,E
6mm SuperBlue	53%	0.52	0.60	5.80	N,W,E
6mm SuperGrey	9%	0.41	0.35	5.80	W,E
6.38mm Clear Laminated	87%	0.78	0.90	5.70	S,N.
6.38mm Grey Laminated	42%	0.61	0.71	5.70	N,W,E
6.38mm Green Laminated	70%	0.72	0.83	5.70	N,W,E
6.38mm SuperGreen Laminated	67%	0.52	0.61	5.70	N,W,E

SINGLE GLAZED LOW E PRODUCT

6mm Cardinal LoE-i89 [®] on Clear + Neat [®] (Haze free)	87%	0.72	0.83	3.60	S,N,E,W.
6.38mm ComfortPLUS Clear Laminated	82%	0.68	0.79	3.60	S,N.
6.38mm ComfortPLUS Neutral Laminated	59%	0.51	0.60	3.60	W,E.
6.38mm ComfortPLUS Grey Laminated	39%	0.50	0.58	3.60	W,E.
6.38mm ComfortPLUS Green Laminated	70%	0.50	0.59	3.60	S,N,W,E.
4mm EnergyTech Clear	83%	0.72	0.83	3.60	S,N.
6mm EnergyTech Clear	81%	0.69	0.80	3.60	S,N.
6mm EnergyTech Grey	40%	0.47	0.55	3.70	N,W,E.
4mm EnergyTech SuperGreen	68%	0.47	0.54	3.70	W,E.
6mm EnergyTech SuperGreen	61%	0.40	0.47	3.70	W,E.
6mm EVantage Clear	66%	0.61	0.71	3.80	S,N,E.
6mm EVantage Grey	32%	0.41	0.48	3.80	W,E.
6mm EVantage Blue/Green	56%	0.45	0.53	3.80	W,E.
6mm EVantage Bronze	38%	0.45	0.53	3.80	W,E.
6mm EVantage SuperBlue	39%	0.36	0.43	3.80	W,E.
6mm EVantage SuperGreen	49%	0.37	0.43	3.80	W,E.
4mm SolTech Neutral	61%	0.53	0.62	3.70	S,N,W,E.
6mm SolTech Neutral	63%	0.53	0.62	3.70	S,N,W,E.
6mm SolTech Grey	30%	0.36	0.42	3.70	S,N,W,E.
6mm Sunergy Clear	68%	0.59	0.69	4.10	S,N,W,E.
10mm Sunergy Clear	66%	0.58	0.66	4.10	S,N,W,E.
12.76mm Low Iron XIR-i89 [®] Laminated (Haze free)	66%	0.39	0.45	3.30	N,E,W.

INSULATED GLASS UNITS

4mm Clear + 6mm air space + 4mm Clear	80%	0.75	0.86	3.10	N,S.
5mm Clear + 6mm air space + 5mm Clear	79%	0.71	0.82	3.10	N,S.
6mm Clear + 12mm air space + 6mm Clear	78%	0.71	0.82	2.70	N,S.
4mm Green + 12mm air space + 4mm Clear	73%	0.57	0.66	2.70	E,N,S.
6mm Green + 12mm air space + 6mm Clear	68%	0.50	0.57	2.70	S,N,W,E.
6mm Grey + 12mm air space + 6mm Clear	37%	0.45	0.52	2.70	W,E.
4mm SuperGreen + 12mm air space + 4mm Clear	65%	0.46	0.54	2.70	W,E.
6mm SuperGreen + 12mm air space + 6mm Clear	59%	0.39	0.46	2.70	W,E.
6mm SuperBlue + 12mm air space + 6mm Clear	47%	0.39	0.46	2.70	W,E.
6mm SuperGrey + 12mm air space + 6mm Clear	8%	0.21	0.25	2.70	W,E

<u>INSULATED LOW E GLASS UNITS</u>	Light Transmission	SHGC	S C	U Value	Recommended Elevation
6mm Cardinal LoE-i89 [®] on Clear + 12mm air space + 6mm Clear (Haze free)	77%	0.64	0.73	1.90	N,S,E.
6mm Cardinal LoE-i89 [®] on Clear + 12mm Argon gas + 6mm Clear (Haze free)	77%	0.64	0.73	1.60	N,S,E.
4mm Cardinal LoE-180 [®] on Clear + 12mm Argon gas + 4mm Clear (Haze free)	78%	0.63	0.72	1.45	N,S,E.
5mm Cardinal LoE-180 [®] on Clear + 12mm Argon gas + 5mm Clear (Haze free)	77%	0.62	0.71	1.45	N,S,E.
6mm Clear + 12mm air space + 6mm EnergyTech Clear	73%	0.67	0.77	1.90	N,S,E.
6mm Green + 12mm air space + 6mm EnergyTech Clear	63%	0.45	0.51	1.90	W,E.
6mm Grey + 12mm air space + 6mm EnergyTech Clear	34%	0.40	0.46	1.90	W,E.
6mm SuperGreen + 12mm air space + 6mm EnergyTech Clear	55%	0.35	0.40	1.90	W,E.
6mm SuperBlue + 12mm air space + 6mm EnergyTech Clear	43%	0.34	0.39	1.90	W,E.
6mm EVantage Clear + 12mm air space + 6 mm Clear	61%	0.56	0.64	2.00	W,E.
6mm EVantage Grey + 12mm air space + 6mm Clear	29%	0.33	0.39	2.00	W,E.
6mm EVantage Blue/Green + 12mm air space + 6mm Clear	51%	0.38	0.44	2.00	W,E.
6mm EVantage Bronze + 12mm air space + 6mm Clear	34%	0.38	0.44	2.00	W,E.
6mm EVantage SuperGreen + 12mm air space + 6mm Clear	44%	0.30	0.34	2.00	W,E.
6mm EVantage SuperBlue + 12mm air space + 6mm Clear	35%	0.29	0.33	1.90	W,E.
4mm SolTech Neutral + 12mm air space + 4mm Clear	55%	0.46	0.53	1.90	W,E.
6mm SolTech Neutral + 12mm air space + 6mm Clear	56%	0.45	0.53	1.90	W,E.
6mm SolTech Grey + 12mm air space + 6mm Clear	27%	0.28	0.33	1.90	W,E.
6mm Sunergy Clear + 12mm air space + 6mm Clear	60%	0.51	0.59	2.10	W,E.
10mm Sunergy Clear + 12mm air space + 6mm Clear	59%	0.49	0.56	2.10	W,E.
4mm EnergyTech SuperGreen + 12mm air space + 4mm Clear	61%	0.40	0.46	1.90	W,E.
6mm EnergyTech SuperGreen + 12mm air space + 6mm Clear	54%	0.32	0.37	1.90	N,W,E
6mm EnergyTech Grey + 12mm air space + 6mm Clear	35%	0.39	0.45	1.90	W,E
<u>SUPERIOR PERFORMANCE INSULATED GLASS UNITS with CARDINAL LOW E GLASS</u>					
6mm LoE ³ -366 [®] + Neat [®] + 12mm Argon gas + 6mm Clear (Haze free)	62%	0.27	0.31	1.35	S,N,W,E.
6mm LoE ³ -366 [®] + Neat [®] + 12mm Argon gas + 6mm LoE-i89 [®] (Haze free)	61%	0.27	0.31	1.09	N,W,E.
6mm Grey + 12mm Argon gas + 6mm LoE ³ -366 [®] (Haze free)	29%	0.22	0.26	1.33	E,W.
6mm SuperGreen + 12mm Argon gas + 6mm LoE ³ -366 [®] (Haze free)	58%	0.25	0.29	1.33	N,E,W.

Terminology :

LIGHT TRANSMISSION: The percentage of visible light (380 to 780nm) transmitted through the glass. The higher the percentage the greater the daylight.

SHGC (Solar heat gain coefficient): The proportion of directly transmitted and absorbed solar energy that enters a building. The lower the number the better the solar performance.

SC (Shading coefficient) : The proportion of directly transmitted and absorbed solar energy that enters a building in comparison to 3mm Clear glass. The lower the number the better the glass performance.

U VALUE: The measurement of air to air thermal conductance or insulation between indoors and outdoors through the glass. The lower the number the better the insulation provided. Measurement unit is watts per m2 per degree celcius.

LOW E GLASS: Glass which has a Low E (Emissivity) coating provides greater insulation by reflecting the heat back inside a building and can also reflect absorbed heat back outside when used for solar control. Low E Glass can be a single glass, laminate or incorporated into an insulated glass unit.

SINGLE GLAZED LOW E: Where a Low E (Emissivity) glass has been glazed with the coating on the inside of the building.

NEAT[®]: A self cleaning coating which uses the sun's rays to loosen dirt so rain can wash it away.

DISCLAIMER:

All performance data is calculated using LBNL 7.3 software, NFRC 100-2010 conditions have been used.

Nominal Thickness - the thickness tolerance for glass up to 6mm is ± 0.2mm.

Glass surfaces are indicated from the exterior to the interior of a building, hence a single glazed Low E glass product will have the coated surface to the interior of the building.

Chevron Insulated Glass Units are indicated from the exterior to the interior of the building with the first glass being the exterior glass surface.

Where a Low E glass product is incorporated into an insulated glass unit, the coated surface will be to the interior of the unit unless indicated.

Chevron Glass Pty Ltd has taken all care but accepts no responsibility for information contained within these charts.

