

SOL-XT™ HIGH PERFORMANCE LOW-E COATED GLASS

SOL-XT™ is a high performance energy efficient laminated glass combining a unique solar control interlayer with a low-E coated glass. The interlayer itself utilises a solar absorbing technology designed to enhance solar heat gain performance whilst maintaining high visible light transmission as compared to ordinary clear and laminated glass made with standard interlayers. The Light and Neutral colour tone series in an insulated glass unit (IGU) provide high levels of visible light transmission (VLT) between 66–58% and mid to high range SHGC performance, 0.44-0.34 respectively. Where the building design requires more solar control and more emphasis on glass colour tone, SOL-XT™ Grey, Blue/Green and Dark Blue series provide very high range SHGC performance, ranging 0.28-0.20 in IGU's with moderation to VLT.

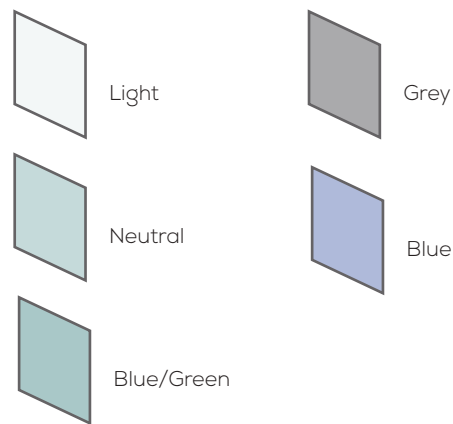
SOL-XT™ laminated glass is always produced with a low-E coated glass such as SOL-R™. This low-E coated product is a high transparent glass with a unique, durable and virtually invisible coating providing improved solar control and thermal insulation over ordinary clear glass. The combination of interlayer and low-E coated glass in a laminated form is what makes SOL-XT™ a stand out performer for energy efficient glazing.

FEATURES AND APPLICATIONS

- › High performance energy efficient laminated glass providing exceptional solar and thermal control with less sacrifice of natural daylight inflows;
- › Depending on climatic region and energy requirements, SOL-XT™ offers a broad range of solar and thermal control;
- › 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 (with IGU's);
- › Low-E coating consists of a microscopically thin, virtually invisible, durable metal or metal oxide layer deposited on the glass during manufacture. Coating is visually low reflecting in appearance;
- › Utilising 'hard coat' online manufacturing technology producing a highly durable coating suitable for single glazed applications.

COLOUR OPTIONS



SOL-XT™ Single Low-E Coated Glass



SOL-XT™ ENERGY PERFORMANCE DATA					
Single Glass	VLT%	VLR%	VLRi%	SHGC	U-Value
8.76MM SOL-XT LIGHT 52	74	10	11	0.52	3.7
9.52MM SOL-XT LIGHT 52	74	10	11	0.52	3.6
10.76MM SOL-XT LIGHT 51	73	9	11	0.51	3.6
11.52MM SOL-XT LIGHT 51	72	9	11	0.51	3.6
12.76MM SOL-XT LIGHT 50	72	9	11	0.50	3.6
13.52MM SOL-XT LIGHT 50	71	9	11	0.50	3.5
8.76MM SOL-XT NEUTRAL 44	68	9	11	0.44	3.7
9.52MM SOL-XT NEUTRAL 44	67	9	11	0.44	3.6
10.76MM SOL-XT NEUTRAL 43	66	8	10	0.43	3.6
11.52MM SOL-XT NEUTRAL 43	66	8	10	0.43	3.5
12.76MM SOL-XT NEUTRAL 43	65	8	10	0.43	3.6
13.52MM SOL-XT NEUTRAL 43	65	8	10	0.43	3.5
8.76MM SOL-XT BLUE/GREEN 37	51	7	9	0.37	3.6
9.52MM SOL-XT BLUE/GREEN 37	50	7	9	0.37	3.5
10.76MM SOL-XT BLUE/GREEN 37	52	7	9	0.37	3.5
11.52MM SOL-XT BLUE/GREEN 37	52	7	9	0.37	3.5
12.76MM SOL-XT BLUE/GREEN 37	51	7	9	0.37	3.5
13.52MM SOL-XT BLUE/GREEN 37	51	7	9	0.37	3.5
8.76MM SOL-XT GREY 37	43	6	10	0.37	3.7
9.52MM SOL-XT GREY 37	42	6	9	0.37	3.6
10.76MM SOL-XT GREY 36	42	6	9	0.36	3.6
11.52MM SOL-XT GREY 36	41	6	9	0.36	3.5
12.76MM SOL-XT GREY 33	33	5	9	0.33	3.6
13.52MM SOL-XT GREY 33	33	5	9	0.33	3.5
8.76MM SOL-XT GREY 32	32	5	9	0.32	3.6
9.52MM SOL-XT GREY 32	32	5	9	0.32	3.5
10.76MM SOL-XT GREY 32	33	5	9	0.32	3.5
11.52MM SOL-XT GREY 32	33	5	9	0.32	3.5
12.76MM SOL-XT GREY 30	26	5	8	0.30	3.5
13.52MM SOL-XT GREY 30	26	5	8	0.30	3.5
10.76MM SOL-XT DARK BLUE 35	44	6	10	0.35	3.6
11.52MM SOL-XT DARK BLUE 35	44	6	10	0.35	3.6
12.76MM SOL-XT DARK BLUE 35	43	6	9	0.35	3.6
13.52MM SOL-XT DARK BLUE 35	43	6	9	0.35	3.6

Data listed based on NFRC 100-2010 with Low-E coating surface #4.

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 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.

SOL-XT™ ENERGY PERFORMANCE DATA					
DUO PLUS™ Insulated Glass Units	VLT%	VLR%	VLRi%	SHGC	U-Value
8.76MM SOL-XT LIGHT 52 / 12 / 6MM CLEAR	66	14	16	0.44	1.7
9.52MM SOL-XT LIGHT 52 / 12 / 6MM CLEAR	66	14	16	0.43	1.7
10.76MM SOL-XT LIGHT 51 / 12 / 6MM CLEAR	65	13	16	0.42	1.7
11.52MM SOL-XT LIGHT 51 / 12 / 6MM CLEAR	64	13	16	0.42	1.6
12.76MM SOL-XT LIGHT 50 / 12 / 6MM CLEAR	64	13	16	0.41	1.6
13.52MM SOL-XT LIGHT 50 / 12 / 6MM CLEAR	63	13	16	0.41	1.6
8.76MM SOL-XT NEUTRAL 44 / 12 / 6MM CLEAR	60	12	16	0.35	1.7
9.52MM SOL-XT NEUTRAL 44 / 12 / 6MM CLEAR	59	12	16	0.35	1.7
10.76MM SOL-XT NEUTRAL 43 / 12 / 6MM CLEAR	59	12	15	0.34	1.6
11.52MM SOL-XT NEUTRAL 43 / 12 / 6MM CLEAR	58	11	15	0.34	1.6
12.76MM SOL-XT NEUTRAL 43 / 12 / 6MM CLEAR	58	11	15	0.34	1.6
13.52MM SOL-XT NEUTRAL 43 / 12 / 6MM CLEAR	58	11	15	0.34	1.6
8.76MM SOL-XT BLUE/GREEN 37 / 12 / 6MM CLEAR	45	9	15	0.28	1.6
9.52MM SOL-XT BLUE/GREEN 37 / 12 / 6MM CLEAR	44	9	15	0.28	1.6
10.76MM SOL-XT BLUE/GREEN 37 / 12 / 6MM CLEAR	46	9	14	0.28	1.6
11.52MM SOL-XT BLUE/GREEN 37 / 12 / 6MM CLEAR	46	9	14	0.28	1.6
12.76MM SOL-XT BLUE/GREEN 37 / 12 / 6MM CLEAR	46	9	14	0.28	1.6
13.52MM SOL-XT BLUE/GREEN 37 / 12 / 6MM CLEAR	45	9	14	0.28	1.6
8.76MM SOL-XT GREY 37 / 12 / 6MM CLEAR	38	7	15	0.27	1.7
9.52MM SOL-XT GREY 37 / 12 / 6MM CLEAR	37	7	15	0.27	1.7
10.76MM SOL-XT GREY 36 / 12 / 6MM CLEAR	37	7	15	0.26	1.6
11.52MM SOL-XT GREY 36 / 12 / 6MM CLEAR	37	7	15	0.26	1.6
12.76MM SOL-XT GREY 33 / 12 / 6MM CLEAR	29	6	14	0.23	1.6
13.52MM SOL-XT GREY 33 / 12 / 6MM CLEAR	29	6	14	0.23	1.6
8.76MM SOL-XT GREY 32 / 12 / 6MM CLEAR	28	6	14	0.22	1.6
9.52MM SOL-XT GREY 32 / 12 / 6MM CLEAR	28	6	14	0.22	1.6
10.76MM SOL-XT GREY 32 / 12 / 6MM CLEAR	29	6	14	0.22	1.6
11.52MM SOL-XT GREY 32 / 12 / 6MM CLEAR	29	6	14	0.22	1.6
12.76MM SOL-XT GREY 30 / 12 / 6MM CLEAR	23	5	14	0.20	1.6
13.52MM SOL-XT GREY 30 / 12 / 6MM CLEAR	23	5	14	0.20	1.6
10.76MM SOL-XT DARK BLUE 35 / 12 / 6MM CLEAR	39	8	15	0.26	1.7
11.52MM SOL-XT DARK BLUE 35 / 12 / 6MM CLEAR	39	8	15	0.26	1.7
12.76MM SOL-XT DARK BLUE 35 / 12 / 6MM CLEAR	38	6	15	0.25	1.6
13.52MM SOL-XT DARK BLUE 35 / 12 / 6MM CLEAR	38	6	15	0.25	1.6

Data listed based on NFRC 100-2010 - DUO PLUS™ IGU glass data with Low-E coating to surface #2 facing inside of the unit with 12mm Argon Gas filled space.

VLT% - refers to the % 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 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.

Brisbane

166 Granite Street
Geebung
QLD 4034

sales.brisbane@
nationalglass.com.au

07 3131 3555

Sydney

Kings Park
NSW 2148

sales.sydney@
nationalglass.com.au

07 3131 3555

Townsville

Cnr Kelli & Taryn Street
Mount St John
QLD 4818

sales.townsville@
nationalglass.com.au

07 4755 3100

Rockhampton

North Rockhampton
QLD 4701

sales.rockhampton@
nationalglass.com.au

07 4924 1650

nationalglass.com.au

