

SOL-R™ LOW-E COATED GLASS RANGE

SOL-R™ is an energy efficient low-E coated glass available in single, laminated and insulated glass unit (IGU) form. The glass is highly transparent with a unique, durable and virtually invisible coating providing improved solar control and thermal insulation. This glass works best when combined in an IGU for improved energy efficiency over ordinary single clear glass.

Available in 4/5/6/8 and 10mm thicknesses which can also be combined into laminated glass with different interlayer types to provide improved solar control, depending on building energy requirements. The SOL-R™ Clear range balances high levels of natural light transmission with improved thermal insulation providing a brighter and more comfortable interior space. For requirements where solar control is most important, SOL-R™ Neutral, Grey, Green or Blue options will lower the SHGC whilst maintaining moderate levels of natural light transmission depending on selection.

FEATURES AND APPLICATIONS

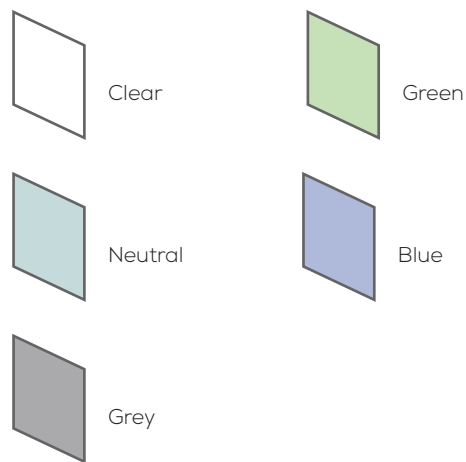
- > Low-E coating consisting of a microscopically thin, virtually invisible, durable metal or metal oxide layer deposited on the glass during manufacture;
- > Utilising 'hard coat' online manufacturing technology producing a highly durable coating suitable for single glazed applications;
- > Depending on climatic region and energy requirements, SOL-R™ 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);
- > Coating is visually low reflecting in appearance.

CLIMATE REGIONS

In colder climates, with well positioned windows, SOL-R™ Clear allows for direct winter sun to passively heat the room or building. The unique coating reflects this heat back into the room. Likewise, when the sun has set, it continues to retain generated heat from escaping the room.

In warmer climates select a product with a lower SHGC using either SOL-R™ Neutral, Grey, Green or Blue options. The coating works to reduce heat gain from the sun's energy, providing greater solar control and thermal insulation compared to ordinary single clear glass.

COLOUR OPTIONS



SOL-R™ Single Low-E Coated Glass



SOL-R™ ENERGY PERFORMANCE DATA					
Single Glass	VLT%	VLR%	VLRi%	SHGC	U-Value
4MM SOL-R CLEAR 73	82	11	12	0.73	3.8
5MM SOL-R CLEAR 71	82	10	11	0.71	3.7
6MM SOL-R CLEAR 70	81	10	11	0.70	3.7
8MM SOL-R CLEAR 69	81	10	11	0.69	3.7
10MM SOL-R CLEAR 66	80	10	11	0.66	3.7
6.38MM SOL-R CLEAR 69	84	10	11	0.69	3.6
8.38MM SOL-R CLEAR 66	80	10	11	0.66	3.7
9.52MM SOL-R CLEAR 66	79	10	11	0.65	3.6
10.38MM SOL-R CLEAR 68	82	10	11	0.68	3.6
11.52MM SOL-R CLEAR 62	78	10	11	0.62	3.6
12.38MM SOL-R CLEAR 61	77	10	11	0.61	3.6
13.52MM SOL-R CLEAR 61	77	10	11	0.60	3.5
4MM SOL-R NEUTRAL 54	61	8	10	0.54	3.7
6MM SOL-R NEUTRAL 54	61	9	10	0.54	3.7
10MM SOL-R NEUTRAL 51	61	8	9	0.51	3.6
6.38MM SOL-R ULTRA NEUTRAL 53	64	9	10	0.53	3.7
6.38MM SOL-R NEUTRAL 52	59	7	9	0.52	3.6
8.38MM SOL-R NEUTRAL 50	60	8	10	0.50	3.6
9.52MM SOL-R NEUTRAL 50	59	8	10	0.50	3.5
10.38MM SOL-R NEUTRAL 50	62	8	9	0.50	3.6
11.52MM SOL-R NEUTRAL 50	61	8	9	0.50	3.5
12.38MM SOL-R NEUTRAL 49	61	8	9	0.49	3.5
13.52MM SOL-R NEUTRAL 48	60	8	9	0.48	3.5
5MM SOL-R GREY 51	45	6	9	0.51	3.7
6MM SOL-R GREY 47	39	6	9	0.47	3.7
6MM SOL-R GREY 37	30	5	8	0.37	3.7
6.38MM SOL-R GREY 50	40	6	9	0.50	3.6
8.38MM SOL-R GREY 49	40	6	9	0.49	3.7
9.52MM SOL-R GREY 49	40	6	9	0.49	3.6
10.38MM SOL-R GREY 47	39	6	9	0.47	3.7
11.52MM SOL-R GREY 47	39	6	9	0.47	3.6
12.38MM SOL-R GREY 46	39	5	9	0.46	3.6
13.52MM SOL-R GREY 46	39	5	9	0.45	3.5
8.38MM SOL-R GREY 41	38	6	9	0.41	3.6
9.52MM SOL-R GREY 41	37	6	9	0.41	3.5
10.38MM SOL-R GREY 41	39	6	8	0.41	3.6
11.52MM SOL-R GREY 41	39	6	8	0.41	3.5
12.38MM SOL-R GREY 36	30	5	8	0.36	3.5
13.52MM SOL-R GREY 36	30	5	8	0.37	3.5
10.38MM SOL-R GREEN 42	63	8	10	0.42	3.7
11.52MM SOL-R GREEN 42	63	8	10	0.42	3.6
12.38MM SOL-R GREEN 41	62	8	10	0.41	3.6
13.52MM SOL-R GREEN 41	61	8	10	0.41	3.5
10.38MM SOL-R DARK BLUE 45	51	7	10	0.45	3.6
11.52MM SOL-R DARK BLUE 45	51	7	10	0.45	3.6
12.38MM SOL-R DARK BLUE 44	51	7	9	0.44	3.6
13.52MM SOL-R DARK BLUE 43	50	7	9	0.43	3.5
10.38MM SOL-R DARK BLUE 37	39	6	9	0.37	3.6
11.52MM SOL-R DARK BLUE 37	38	6	9	0.37	3.5
12.38MM SOL-R DARK BLUE 37	40	6	8	0.37	3.5
13.52MM SOL-R DARK BLUE 37	40	6	8	0.37	3.5

SOL-R™ ENERGY PERFORMANCE DATA					
DUO PLUS™ Insulated Glass Units	VLT%	VLR%	VLRi%	SHGC	U-Value
4MM SOL-R CLEAR 73 / 12 / 4MM CLEAR	74	16	17	0.65	1.7
5MM SOL-R CLEAR 71 / 12 / 5MM CLEAR	73	15	16	0.63	1.7
6MM SOL-R CLEAR 70 / 12 / 6MM CLEAR	72	15	16	0.61	1.7
8MM SOL-R CLEAR 69 / 12 / 8MM CLEAR	72	15	17	0.60	1.7
10MM SOL-R CLEAR 66 / 12 / 8MM CLEAR	71	15	17	0.58	1.7
6.38MM SOL-R CLEAR 69 / 12 / 6MM CLEAR	73	15	16	0.63	1.6
8.38MM SOL-R CLEAR 66 / 12 / 6MM CLEAR	71	15	16	0.57	1.7
9.52MM SOL-R CLEAR 66 / 12 / 6MM CLEAR	71	15	16	0.56	1.7
10.38MM SOL-R CLEAR 68 / 12 / 6MM CLEAR	72	15	16	0.58	1.6
11.52MM SOL-R CLEAR 62 / 12 / 6MM CLEAR	69	14	16	0.53	1.6
12.38MM SOL-R CLEAR 61 / 12 / 6MM CLEAR	69	14	16	0.52	1.6
13.52MM SOL-R CLEAR 61 / 12 / 6MM CLEAR	68	14	16	0.51	1.6
4MM SOL-R NEUTRAL 54 / 12 / 4MM CLEAR	54	10	15	0.45	1.6
6MM SOL-R NEUTRAL 54 / 12 / 6MM CLEAR	53	10	15	0.44	1.6
10MM SOL-R NEUTRAL 51 / 12 / 8MM CLEAR	54	11	15	0.42	1.6
6.38MM SOL-R ULTRA NEUTRAL 53 / 12 / 6MM CLEAR	57	12	16	0.44	1.7
6.38MM SOL-R NEUTRAL 52 / 12 / 6MM CLEAR	52	10	15	0.43	1.6
8.38MM SOL-R NEUTRAL 50 / 12 / 6MM CLEAR	53	11	15	0.41	1.6
9.52MM SOL-R NEUTRAL 50 / 12 / 6MM CLEAR	53	10	15	0.41	1.6
10.38MM SOL-R NEUTRAL 50 / 12 / 6MM CLEAR	55	11	15	0.41	1.6
11.52MM SOL-R NEUTRAL 50 / 12 / 6MM CLEAR	54	11	15	0.41	1.6
12.38MM SOL-R NEUTRAL 49 / 12 / 6MM CLEAR	54	11	15	0.40	1.6
13.52MM SOL-R NEUTRAL 48 / 12 / 6MM CLEAR	54	10	15	0.39	1.6
5MM SOL-R GREY 51 / 12 / 5MM CLEAR	40	8	15	0.43	1.7
6MM SOL-R GREY 47 / 12 / 6MM CLEAR	35	7	15	0.38	1.7
6MM SOL-R GREY 37 / 12 / 6MM CLEAR	27	6	14	0.28	1.6
6.38MM SOL-R GREY 50 / 12 / 6MM CLEAR	34	7	14	0.41	1.6
8.38MM SOL-R GREY 49 / 12 / 6MM CLEAR	36	7	15	0.40	1.7
9.52MM SOL-R GREY 49 / 12 / 6MM CLEAR	36	7	15	0.39	1.7
10.38MM SOL-R GREY 47 / 12 / 6MM CLEAR	35	7	14	0.38	1.6
11.52MM SOL-R GREY 47 / 12 / 6MM CLEAR	35	7	14	0.37	1.6
10.38MM SOL-R GREY 47 / 12 / 6MM CLEAR	35	7	15	0.38	1.7
11.52MM SOL-R GREY 47 / 12 / 6MM CLEAR	35	7	14	0.37	1.6
12.38MM SOL-R GREY 46 / 12 / 6MM CLEAR	35	7	14	0.36	1.6
13.52MM SOL-R GREY 46 / 12 / 6MM CLEAR	34	7	14	0.36	1.6
8.38MM SOL-R GREY 41 / 12 / 6MM CLEAR	33	7	14	0.32	1.6
9.52MM SOL-R GREY 41 / 12 / 6MM CLEAR	33	7	14	0.32	1.6
10.38MM SOL-R GREY 41 / 12 / 6MM CLEAR	34	7	14	0.32	1.6
11.52MM SOL-R GREY 41 / 12 / 6MM CLEAR	34	7	14	0.32	1.6
12.38MM SOL-R GREY 36 / 12 / 6MM CLEAR	27	6	14	0.27	1.6
13.52MM SOL-R GREY 36 / 12 / 6MM CLEAR	27	6	14	0.27	1.6
10.38MM SOL-R GREEN 42 / 12 / 6MM CLEAR	57	12	16	0.33	1.7
11.52MM SOL-R GREEN 42 / 12 / 6MM CLEAR	56	12	16	0.33	1.7
12.38MM SOL-R GREEN 41 / 12 / 6MM CLEAR	55	11	16	0.32	1.6
13.52MM SOL-R GREEN 41 / 12 / 6MM CLEAR	55	11	16	0.32	1.6
10.38MM SOL-R DARK BLUE 45 / 12 / 6MM CLEAR	46	9	15	0.35	1.7
11.52MM SOL-R DARK BLUE 45 / 12 / 6MM CLEAR	46	9	15	0.35	1.7
12.38MM SOL-R DARK BLUE 44 / 12 / 6MM CLEAR	45	9	15	0.35	1.6
13.52MM SOL-R DARK BLUE 43 / 12 / 6MM CLEAR	45	9	15	0.34	1.6
10.38MM SOL-R DARK BLUE 37 / 12 / 6MM CLEAR	34	7	14	0.28	1.6
11.52MM SOL-R DARK BLUE 37 / 12 / 6MM CLEAR	34	7	14	0.28	1.6
12.38MM SOL-R DARK BLUE 37 / 12 / 6MM CLEAR	35	7	14	0.28	1.6
13.52MM SOL-R DARK BLUE 37 / 12 / 6MM CLEAR	35	7	14	0.28	1.6

Data listed based on NFRC 100-2010 - Single glass data with Low-E coating surface #2 and surface #4 for laminated glass. 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

