

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™ Ultra Neutral, Grey, Green or Blue options will lower the SHGC whilst maintaining moderate levels of natural light transmission depending on selection.

FEATURES AND APPLICATIONS

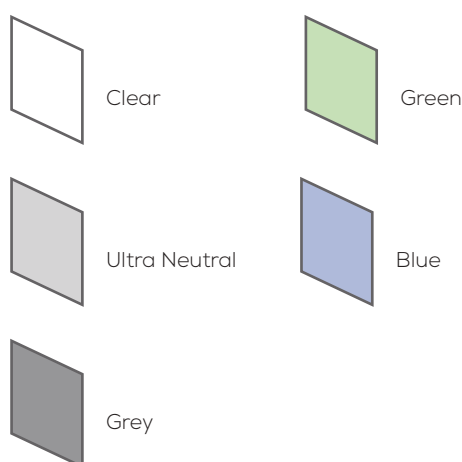
- › Low-E coating consisting of a microscopically thin, virtually invisible, durable metal or metal oxide layer deposited on the glass during manufacture;
- › Utilising 'hard coat' online manufacturing technology producing a highly durable coating suitable for single glazed applications;
- › Depending on climatic region and energy requirements, 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, selecting the Clear option 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 Ultra 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 |
| 6.38MM SOL-R ULTRA NEUTRAL 53 | 64 | 9 | 10 | 0.53 | 3.7 |
| 8.38MM SOL-R ULTRA NEUTRAL 52 | 63 | 9 | 11 | 0.52 | 3.7 |
| 9.52MM SOL-R ULTRA NEUTRAL 51 | 63 | 9 | 11 | 0.51 | 3.6 |
| 10.38MM SOL-R ULTRA NEUTRAL 50 | 62 | 9 | 11 | 0.50 | 3.6 |
| 11.52MM SOL-R ULTRA NEUTRAL 50 | 62 | 9 | 11 | 0.50 | 3.6 |
| 12.38MM SOL-R ULTRA NEUTRAL 49 | 62 | 9 | 11 | 0.49 | 3.6 |
| 13.52MM SOL-R ULTRA NEUTRAL 49 | 62 | 9 | 11 | 0.49 | 3.6 |
| 5MM SOL-R GREY 51 | 45 | 6 | 9 | 0.51 | 3.7 |
| 6MM SOL-R GREY 47 | 39 | 6 | 9 | 0.47 | 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 |
| 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 |

| 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 |
| 6.38MM SOL-R ULTRA NEUTRAL 53 / 12 / 6MM CLEAR | 57 | 12 | 16 | 0.44 | 1.7 |
| 8.38MM SOL-R ULTRA NEUTRAL 52 / 12 / 6MM CLEAR | 57 | 12 | 16 | 0.43 | 1.7 |
| 9.52MM SOL-R ULTRA NEUTRAL 51 / 12 / 6MM CLEAR | 57 | 12 | 16 | 0.43 | 1.6 |
| 10.38MM SOL-R ULTRA NEUTRAL 50 / 12 / 6MM CLEAR | 56 | 12 | 16 | 0.42 | 1.6 |
| 11.52MM SOL-R ULTRA NEUTRAL 50 / 12 / 6MM CLEAR | 56 | 12 | 16 | 0.42 | 1.6 |
| 12.38MM SOL-R ULTRA NEUTRAL 49 / 12 / 6MM CLEAR | 55 | 12 | 16 | 0.41 | 1.6 |
| 13.52MM SOL-R ULTRA NEUTRAL 49 / 12 / 6MM CLEAR | 55 | 12 | 16 | 0.40 | 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 |
| 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 |
| 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 |

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.

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