

# See the difference inside out

## **Solace Low E**

A high performance low-e glass



# Introducing Solace Low E

## A new way to view your world

Windows aren't just part of your home's framework. They can add light and life, warmth and beauty. That's why choosing the right glass is so important. And where Solace Low E can make all the difference.

A high performance glass, Solace Low E is designed to help you create a living environment that's completely comfortable – making your home feel 'just right'.

Solace gives you the best of the outdoors, indoors. In cooler environments it makes the most of natural light, letting the sun's heat in and preventing it from escaping. In hotter environments, its clever technology keeps your home nice and cool.



# See the difference with Solace



## The clearest view

Unlike other low-e glass products that can look hazy, Solace Low E provides exceptional clarity and a view the way it's meant to be.



## A warmer, drier, healthier home

Solace makes your home more liveable. We use advanced thermal spacer technology which reduces condensation and creates a 'warmer edge' to your windows and doors, allowing you to make the most of your living space. And if you add an insulating gas like argon to your double or triple glazed unit, it will keep in even more warmth.



## No compromise on light

There's nothing like natural light to brighten up your home. Solace provides the maximum transfer of light and energy from the sun, allowing it to be distributed generously throughout the room.



## Increased energy efficiency

As part of a total window system, Solace can help boost the energy efficiency of your windows and help you achieve an ENERGY STAR\* mark for your home. Just talk to your local window and door manufacturer about how.

\* 0.32 = minimum R value rating for ENERGY STAR

## Backed by the stats

		U-value	Shading co-efficient	Visible light transmission (%)
Double glazing (DGU)	Clear-air-clear	2.9	0.89	81
	Clear-air-Solace	1.6	0.71	81*
	Clear-argon-Solace	1.3	0.72	81*
Triple glazing (TGU)#	Clear-air-clear-air-clear	1.9	0.80	74
	Clear-argon-clear-argon-Solace	1.0	0.66	73
	Solace-argon-clear-argon-Solace	0.7	0.61	73

# We don't recommend using Solace Low E in the centre pane. Talk to your window and door manufacturer about what works best.

\* When toughened, Solace delivers 81% VLT for DGUs. Annealed product delivers 80% VLT. Based on 12mm spacer in all units, with additional data available for 14mm/16mm spacer. Data shown above is based on manufacturer's standard outputs. U-values calculated using NFRC and shading co-efficient and visible light transmission calculated using CEN modelling methods. Talk to your window and door manufacturer for more information.





A close-up photograph of a human hand, palm facing up, with several thick, yellow, diagonal brush strokes overlaid across it. The background is dark and out of focus.

## Get to know your glass

- **Low-emissivity (low-e) glass**

Glass with an almost invisible coating contained on the inside pane of an insulated glass unit (IGU). This coating lets the sun's light and energy into your home and reflects heat back indoors, forming a shield against the cold. In warmer climates low-e glass can be used to keep the heat out.

- **U-value**

The measure of air-to-air heat transfer through glass and the difference between the indoor and outdoor temperatures. The lower the U-value, the lower the heat transfer and the better the insulation.

- **R-value**

The thermal resistance of the total window system (including glass, spacer and joinery type). The higher the R-value, the less heat that is lost through the system and the better the insulation.

- **Shading co-efficient**

The ratio of total solar heat gain through a particular glass type compared to the total heat gain through 3mm clear glass. The lower the shading co-efficient, the more the glass restricts the transfer of solar heat.

- **Visible light transmission**

The percentage of visible light transmitted through the glass. The higher the VLT, the more natural light enters the room.

- **Argon**

A noble gas used inside a double or triple glazed unit. It restricts the transfer of heat and provides greater insulation.

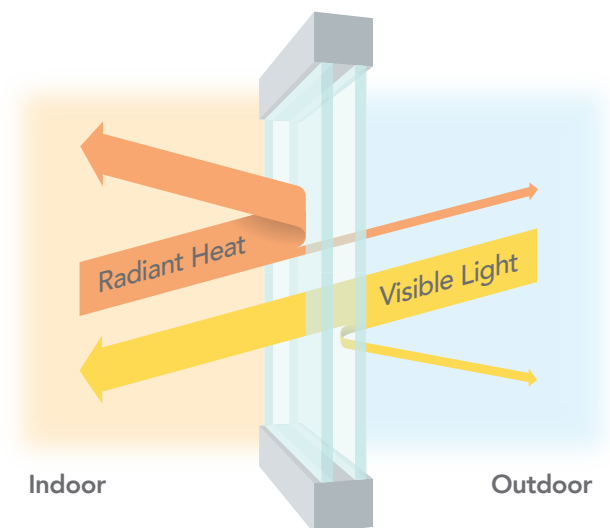




## Why go Low E?

Solace Low E is a type of low emissivity (low-e) glass – a high performing technology that has been used in homes throughout Europe for many years.

The secret to low-e is in the virtually invisible coating that is applied to the glass. It cuts window heat loss by about 20% to 30%, compared to double glazing without low-e\*. The result? You can live closer to your windows and closer to the view you love.



\* EECA ENERGY STAR® literature September 2014.



## Experience the difference

We're proud to supply our glass to New Zealand's best window and door manufacturers and glass merchants. To find out more about Solace Low E or any of our other glass solutions, talk to one of our experts.

**Your local expert is:**

## About us

At Glass Relate we specialise in delivering high quality, innovative glass solutions throughout New Zealand. And with an organisational backing that comes with nearly 50 years' experience, you can be sure we'll be around for many years to come.

Our team of glass experts, and the window manufacturers who use our glass, are trusted, reliable and know their stuff. So whether your project is big or small, we can help you create the perfect solution.

### Auckland

2 Timaru Place, Mt Wellington  
PO Box 51075, Pakuranga 2140  
+64 9 838 0700

### Christchurch

53 Izone Drive, Rolleston  
PO Box 80, Rolleston 7643  
+64 3 347 7900

[glassrelate.co.nz](http://glassrelate.co.nz)

