

# SOLACE

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LOW-E

A HIGH PERFORMANCE THERMAL GLASS TECHNOLOGY

# GREATER INSULATION, MORE COMFORT, HEALTHIER HOMES

Solace Low-E is an advanced thermal glass technology that provides year-round energy efficiency and comfort.

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## Designed to withstand New Zealand's harsh climates

Managing temperature in different ways for different environments, Solace Low-E ensures your home stays warm in the winter and cool in the summer.

We offer a wide range of Solace Low-E performance levels and price points, there is something for everyone.

Take a look and explore our range.





WELCOME TO A HOME OF  
**ENERGY**  
**EFFICIENCY**

# WHY GO SOLACE LOW-E



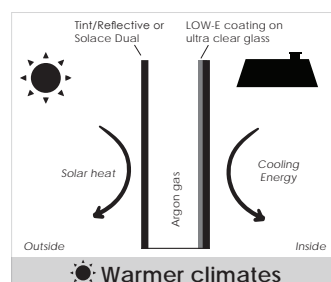
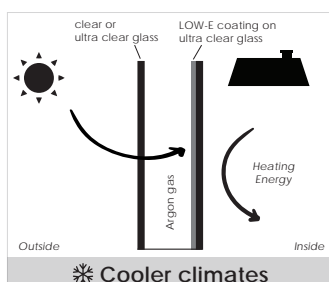
## WHAT IS SOLACE LOW-E GLASS?

Solace Low-E is a type of low emissivity glass – a high performance thermal technology. An almost invisible low emissivity coating is applied to our ultra-clear glass and placed into an insulated glass unit (IGU).

## YEAR ROUND COMFORT

**In cooler climates**, Solace Low-E reflects warmth generated from heating systems inwards, cutting window heat loss compared to double glazing without Solace low-E.

**In warmer climates**, Solace Low-E reflects cool air generated from cooling systems inwards. When paired with a tinted or reflective piece of glass Solace Low-E reflects solar heat (sun heat) outwards to prevent excessive amount of heat buildup.



## LESS CONDENSATION

Solace Low-E double glazing reduces the likelihood of condensation forming on the surface of your window. For ultimate condensation resistance, talk to us about our thermally broken joinery solutions.

## GREATER SAVINGS ON ENERGY COSTS

Solace Low-E glass ensures your home is less reliant on heating and cooling systems, providing significant energy savings over the course of the year.

## BETTER FOR THE ENVIRONMENT

With fewer energy resources required to keep your home healthy and comfortable year round, Solace Low-E offers overall greater energy efficiency. Opting for Solace Low-E ensures your home is a sustainable one.

## MORE NATURAL LIGHT, BETTER WELLBEING

Installing Solace Low-E ensures optimum levels of light transmittance within the home and the workplace. Studies show that offices with larger window circumference and light transmittance can improve general wellbeing and productivity, greatly improving the appeal of environments for employees that often lack exposure to natural sunlight.



# THE SOLACE DIFFERENCE

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If you're familiar with Low-E, you will be aware of the multiple Low-E glass offerings in the New Zealand market. So why choose Solace Low-E?

## WIDE RANGE OF PRICE POINTS AND PERFORMANCE LEVELS

We offer **Solace Low-E in double, triple and quad glazing**, an overall total of 16 combinations that allows our customers the ability to select an IGU that is best suited to their individual needs.

## SUPERIOR ENERGY EFFICIENCY RATINGS

Some people refer to it as 'R value'; we simply like to refer to it as energy efficiency.

Naturally, a result of our extensive Solace Low-E range is the high energy efficiency ratings we provide to our customers and to the New Zealand market.

## LONGEST IGU SERVICE LIFE POSSIBLE

Our IGU's not only have extreme thermal efficiency, but they are also some of the most durable in the market.

Why? Our latest XR Edge spacer technology, **a revolutionary high-performance spacer** that provides our customers with the longest IGU service life possible.

## WE ONLY COAT SOLACE LOW-E ON ULTRA-CLEAR GLASS

Unlike other glass manufacturers, **we only coat Low-E on ultra-clear glass** so our entire Solace Low-E offering retains **a high percentage of visible light transmission**.

For us, this means our customers do not have to compromise on exceptional clarity for a more energy efficient home – because at FMI Building Innovation, we believe that all Kiwi's deserve access to affordable and effective glass solutions.

WE BELIEVE ALL  
KIWI'S DESERVE  
ACCESS TO  
AFFORDABLE  
AND EFFECTIVE  
GLASS SOLUTIONS

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# THE RIGHT SOLACE FOR YOU

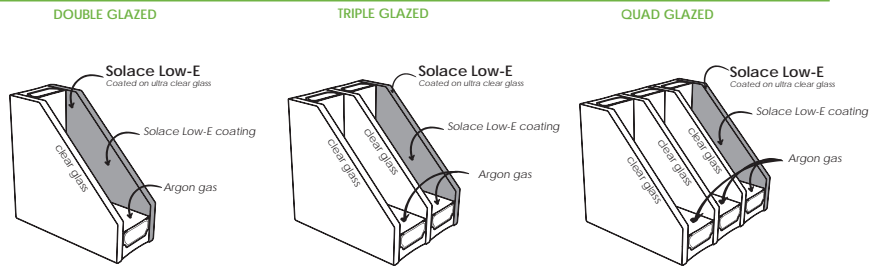
Choosing the right Solace for your desired outcome is important. We have an extensive range of Solace offerings, from affordable entry-level solutions to maximum thermal performance, there is guaranteed to be something for everyone.



**SOLACE**  
with Argon gas

**Experience energy efficiency with our entry level Solace Low-E**

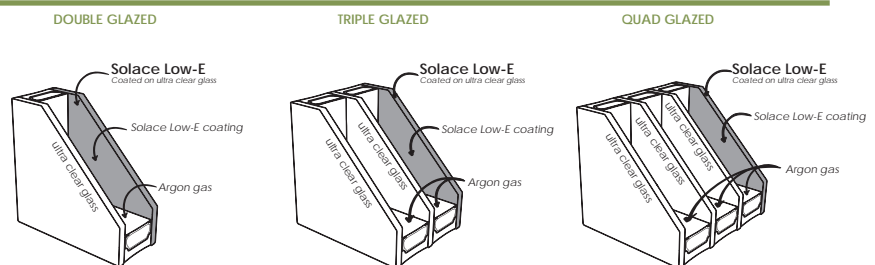
- MOST AFFORDABLE
- REDUCES ENERGY BILLS, INCREASES SAVINGS
- EXPERIENCE THE SOLACE LOW-E BENEFITS AT AN AFFORDABLE PRICE POINT.




**SOLACE UltraClear**  
with Argon gas

**Feel and see the difference with premium ultra-high clarity**

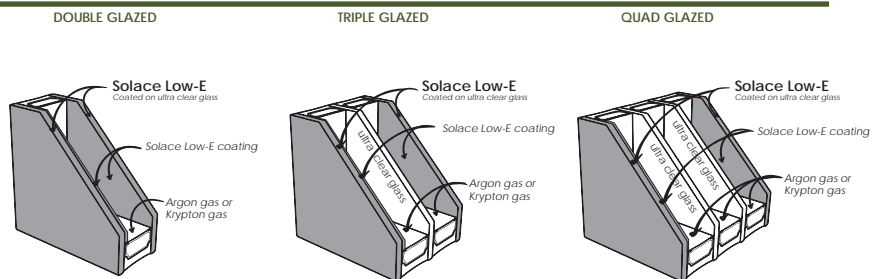
- PREMIUM ULTRA CLEAR GLASS
- HIGHEST LIGHT TRANSMITTANCE
- MAXIMUM CLARITY




**SOLACE Dual**  
with Argon gas or Krypton gas

**Maximize heat in your home with our highest thermal performance**

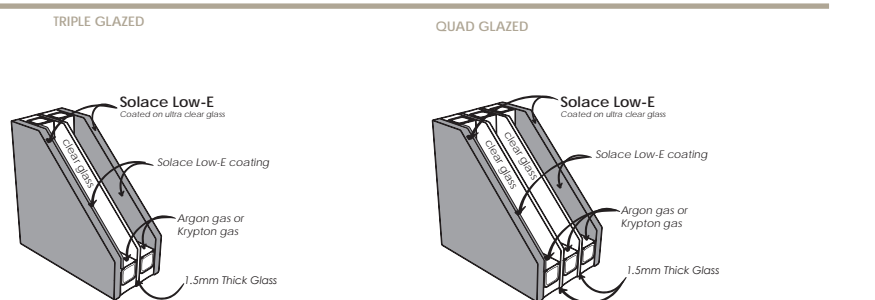
- ULTIMATE INSULATION
- ULTIMATE SOLACE LOW-E
- ULTIMATE THERMAL COMFORT
- ULTIMATE ENERGY EFFICIENCY




**SOLACE UltraThin**  
with Argon gas or Krypton gas

**A revolutionary thin glass for modern triple and quad glazing solutions**

- SUPERIOR THERMAL OUTPUT
- SUPER SLIM GLASS
- SUPER LIGHT WEIGHT
- MAXIMUM SOLACE LOW-E
- STANDARD UNIT SIZE, GREATER GLASS CAPACITY



## KEY CHART

**Argon** Argon gas is a low-cost, clear, non-toxic, naturally occurring gas with a lower thermal conductance than air. Use of argon between glazing panes instead of air can reduce the amount of heat conducted across the gap and improve the R-value of the glazing by 5–20%.

**Krypton** Krypton gas is an alternative filling option to Argon gas. It has a very low thermal conductivity that slows down the transmission of outside cold through the IGU and into the home. \*Krypton gas filling is subject to availability.

**IGU** An insulated glass unit (IGU) combines multiple glass panes into a single window system. Most IGUs are double glazed (two panes of glass) with three panes (triple glazing) or more becoming more common due to higher energy costs. The panes of glass in IGUs are separated by a spacer and a still layer of air or gas. The glass is then fitted into window frames, which is made wider to accommodate the two panes.

# OUR SOLACE DATA

Discover more about our Solace Low-E offering and understand the data that backs our superior ratings.

| LOW-E TYPE | ENERGY EFFICIENCY<br>(R Value) | HEAT GAIN<br>(SHGC) | VLT<br>(Visual Light Transmission) |
|------------|--------------------------------|---------------------|------------------------------------|
|------------|--------------------------------|---------------------|------------------------------------|

|           | Argon |  |     |
|-----------|-------|--|-----|
| SOLACE DG | 0.83  |  | 61% |
| SOLACE TG | 1.08  |  | 58% |
| SOLACE QG | 1.30  |  | 54% |

|                      | Argon |  |     |
|----------------------|-------|--|-----|
| SOLACE UltraClear DG | 0.83  |  | 66% |
| SOLACE UltraClear TG | 1.08  |  | 62% |
| SOLACE UltraClear QG | 1.30  |  | 58% |

|                | Argon | Krypton |     |
|----------------|-------|---------|-----|
| SOLACE Dual DG | 0.89  | 1.00    | 57% |
| SOLACE Dual TG | 1.60  | 1.80    | 53% |
| SOLACE Dual QG | 1.80  | 1.95    | 50% |

|                     | Argon | Krypton |     |
|---------------------|-------|---------|-----|
| SOLACE UltraThin TG | 0.98  | 1.49    | 53% |
| SOLACE UltraThin QG | 1.14  | 1.68    | 50% |

## KEY CHART

- R-Value** R-Value is the thermal resistance of a material. The higher the value, the less heat is lost through the material and the better the insulation and efficiency will be.
- VLT** Visible Light Transmittance (VLT) describes the percentage of visible light transmitted through the glass. The higher the percentage the more daylight transmitted.
- SHGC** The Solar Heat Gain Coefficient (SHGC) is the total fraction of available solar radiation that is transmitted through the window as heat gain. The lower the solar heat gain, the less solar heat it transmits.

# TALK TO YOUR SUPPLIER FOR ADVICE

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## CONTACT US

TO FIND THE RIGHT SOLACE COMBINATION THAT IS BEST SUITED TO YOUR HOME OR PROJECT, PLEASE TALK TO YOUR ARCHITECT, BUILDER OR LOCAL SUPPLIER FOR ASSISTANCE.

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