

LOW-E

Double Glazing

*Your Home,
Your Glass*

Welcome to a home of comfort and energy efficiency.

Low-E glass captures free energy from the heat and light of the sun. It offers greater savings on energy costs because of its clear metallic coating that reflects heat back into a room, creating a more comfortable home.

Our Goal

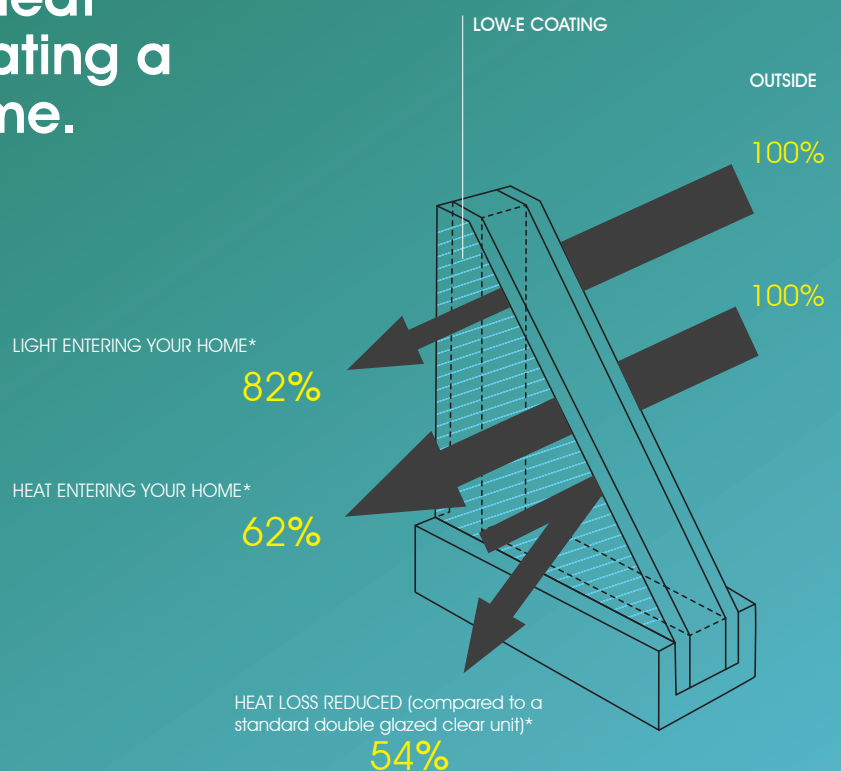
We believe that all New Zealanders should have energy efficient Low-E glass in their homes. At Viridian, we know that this is possible through our products, partnerships and passionate people throughout New Zealand.

Year-round comfort

Premium double glazing using Low-E glass provides superior insulation by reducing heat loss through your windows - making your home warmer in winter.

Year round savings all year

The perfect solution will not only provide comfort but savings too because the Low-E coating on the glass traps the heat inside your home. LightBridge™ or PerformaTech™ will reduce heat loss by up to 59% compared to standard double glazing, or 79% compared to 4mm glass*.



Tailored For New Zealand Homes



If you're building or renovating your home, we have the right Low-E glass for you. Our new range of Low-E glass lets you choose the solution based on: the quantity of light entering your home, the heat entering your home, and/or the heat you're wanting to retain:



EnergySaver™

Reduce your energy bills by selecting our entry-level Low-E

LIGHT ENTERING YOUR HOME

77%

HEAT ENTERING YOUR HOME

74%

HEAT CONTAINED IN YOUR HOME*

66%



LightBridge™

Maximise light and heat in your home

LIGHT ENTERING YOUR HOME

82%

HEAT ENTERING YOUR HOME

62%

HEAT CONTAINED IN YOUR HOME*

77%



PermaTech™

Balance light and heat with our solar-controlled low-e

LIGHT ENTERING YOUR HOME

73%

HEAT ENTERING YOUR HOME

35%

HEAT CONTAINED IN YOUR HOME*

81%

* "Heat Contained" refers to reduced heat loss compared with 4mm clear glass.



EnergySaver™

Ordinary double glazing

WEERS Energy Rating**:**★★★**

Key features:

- Entry level double glazing

EnergySaver™
with clear glass

WEERS Energy Rating**:



Key features:

- Low-E glass
- Looks similar to clear IGU
- Reduce heat loss by **32%** compared to ordinary double glazing
- Light transparency of **77%**

*Based on an IGU combination of 4mm EnergySaver / 14mm spacer with air / 4mm Clear. U Value to EN673 and the rest of data to NFRC 100-2010

Benefits Indicator



Benefits Indicator



EnergySaver™

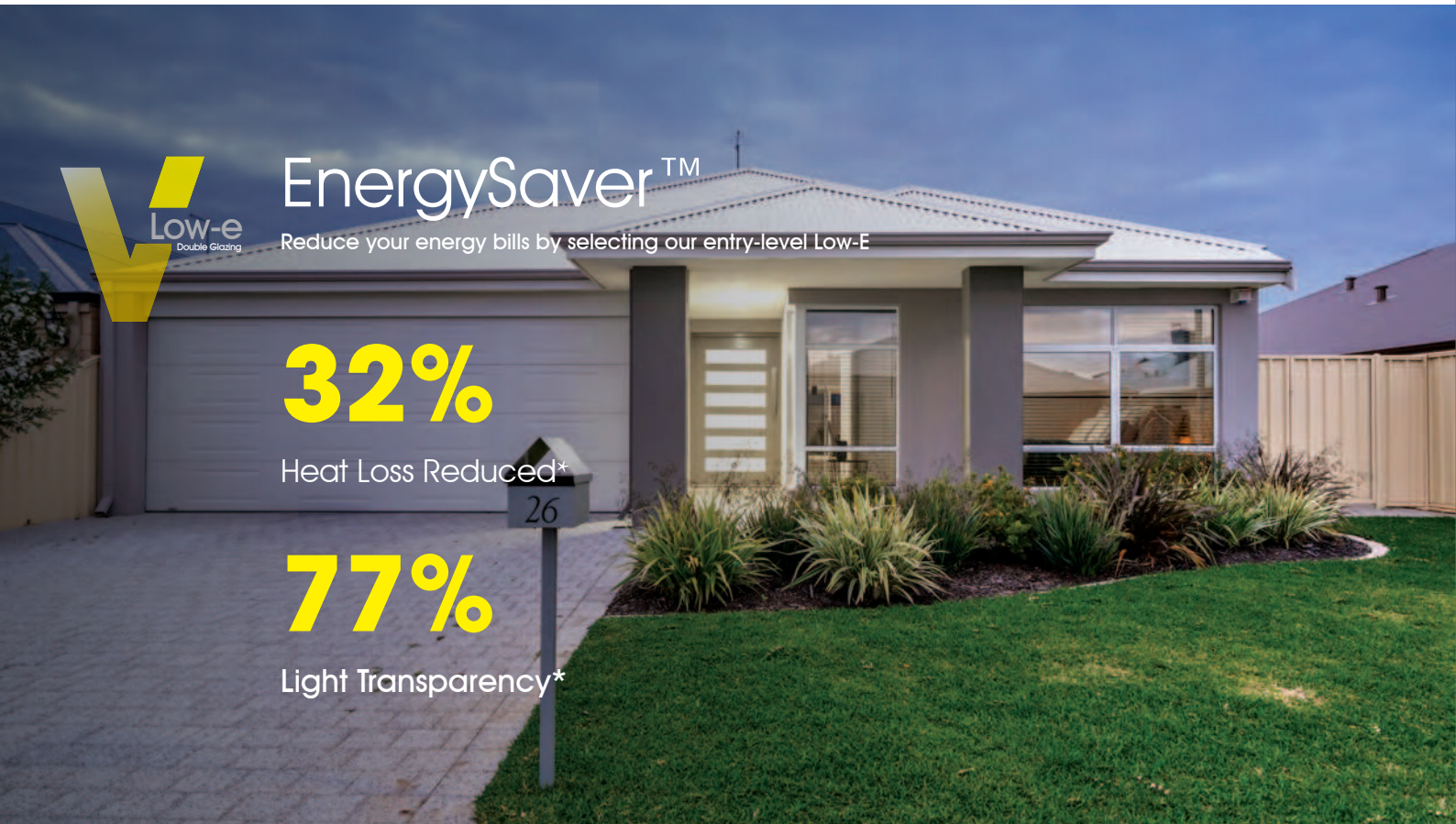
Reduce your energy bills by selecting our entry-level Low-E

32%

Heat Loss Reduced*

77%

Light Transparency*



LightBridge™

LightBridge™ with clear glass

WEERS Energy Rating**



Key features:

- Premium Low-E glass
- Thermal spacer
- Looks similar to clear IGU
- Reduce heat loss by **54%** compared to ordinary double glazing

*Based on an IGU combination of 4mm LightBridge / 14mm spacer with argon gas / 4mm Clear. U Value to EN673 and the rest of data to NFRC 100-2010

Benefits Indicator



LightBridge™ with tinted glass

WEERS Energy Rating**



Key features:

- Premium Low-E glass
- Darker than ordinary double glazing
- Reduce heat loss by **54%** compared to ordinary double glazing
- Keeps your house cooler in summer and warmer in winter

Benefits Indicator



LightBridge™ with VLam Clear

WEERS Energy Rating**



Key features:

- Looks similar to LightBridge™ with clear glass with the additional benefit:
- Blocks **99%** of UV light rays, which can slow down furniture fading

Benefits Indicator



LightBridge™ with VLam Silence

WEERS Energy Rating**



Key features:

- Looks similar to LightBridge™ with clear glass with the additional benefit:
- Blocks **99%** of UV light rays, which can slow down furniture fading
- Significantly reduce unwanted noise

Benefits Indicator



LightBridge™

Maximise light and heat in your home

54%

Heat Loss Reduced*

82%

Light Transparency*



PerformaTech™

PerformaTech™ with clear glass

WEERS Energy Rating**: ★★★★★★

Key features:

- Premium Low-E glass + argon gas + thermal spacer
- Neutral colour compared to ordinary glass
- Reduce heat loss by **62%** compared to ordinary double glazing
- Keeps your house cooler in summer and warmer in winter

*Based on an IGU combination of 4mm PerformaTech / 14mm spacer with argon gas / 4mm Clear. U Value to EN673 and the rest of data to NFRC 100-2010

Benefits Indicator



PerformaTech™ with clear laminated glass

WEERS Energy Rating**: ★★★★★★

Key features:

- Premium Low-E glass + argon gas + thermal spacer
- Neutral colour compared to ordinary glass
- Reduce heat loss by **62%** compared to ordinary double glazing
- Keeps your house cooler in summer and warmer in winter
- Blocks **99%** of UV light rays, which can slow down furniture fading

Benefits Indicator



PerformaTech™ with Vlam Silence

WEERS Energy Rating**: ★★★★★★

Key features:

- Premium Low-E glass + argon gas + thermal spacer
- Neutral colour compared to ordinary glass
- Reduce heat loss by **62%** compared to ordinary double glazing
- Keeps your house cooler in summer and warmer in winter
- Blocks **99%** of UV light rays, which can slow down furniture fading
- Cut down unwanted noise

Benefits Indicator



PerformaTech™

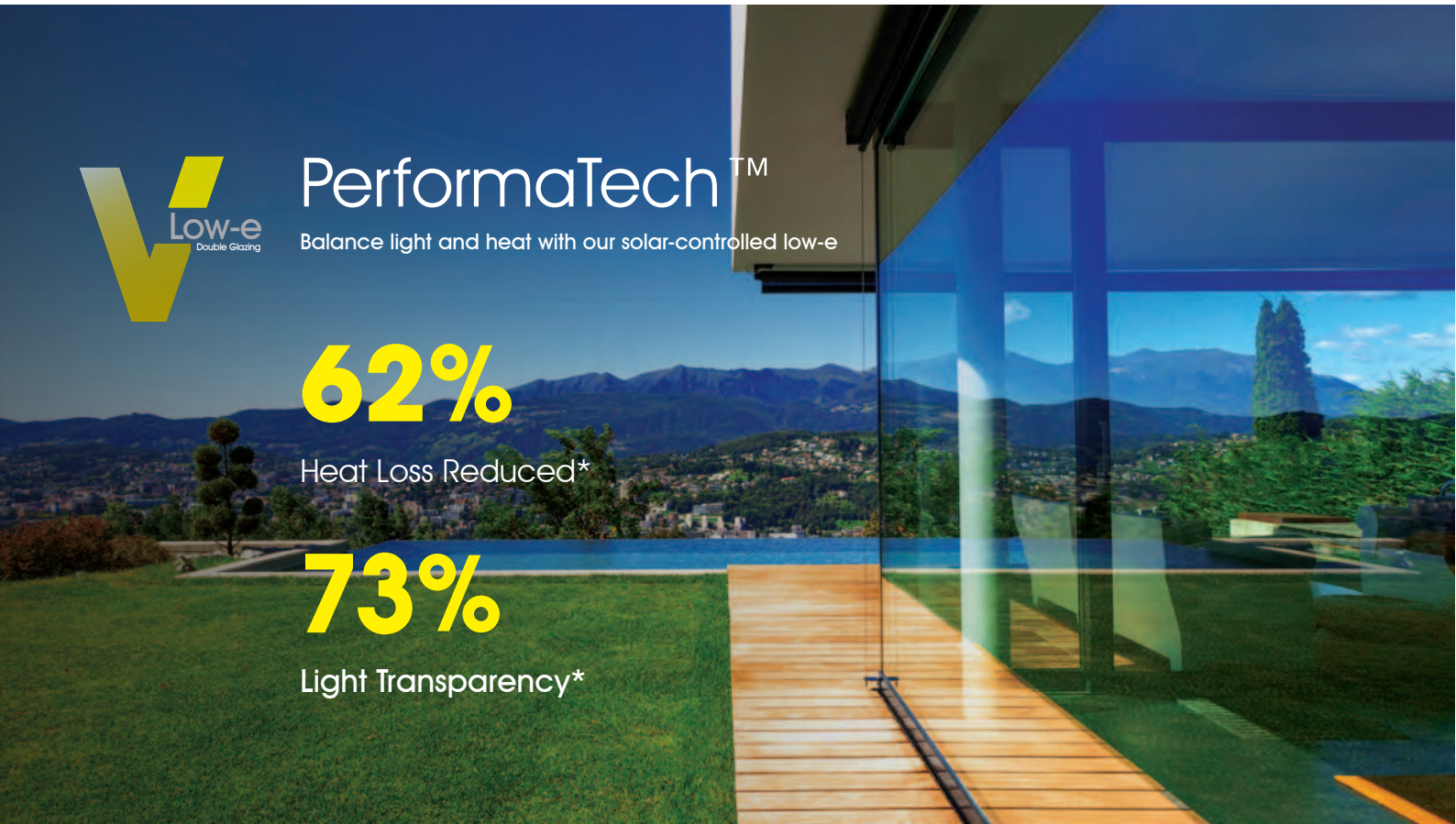
Balance light and heat with our solar-controlled low-e

62%

Heat Loss Reduced*

73%

Light Transparency*



Find the Right Glass for Your Home Now!



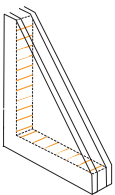
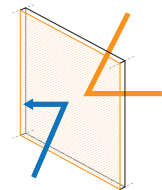
The Glazing Selector has been designed with you in mind. If you want to choose the right glass for your home based on the environment you want to create, simply use the camera on your phone and scan the QR code below. Or, visit us at: glazingselector.co.nz



Important Definitions

Low E Coating

A Low-E coating is a clear metallic coating that is applied to the glass. This coating traps the heat by reflecting off the glass and back into your room allowing for a warmer and more comfortable living space.

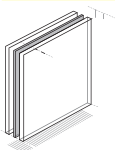
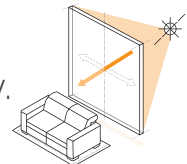


Argon Gas + Thermal Spacer

Argon gas has been included in all LightBridge™ and PerformaTech™ glass units. Argon gas is an inert, non-toxic gas that is more dense than oxygen, making it harder for heat to escape. A thermal spacer creates an excellent thermal barrier between the two panes of glass instead of a metal spacer.

Reduced Rate of UV Fading

The interlayer of VLam Clear™ slows the affects of fading in your home by blocking 99.9% of UV.



Reduce External Noise

VLam Hush™ has a specially developed interlayer to dampen noise, providing enhanced sound insulation performance.

**WEERS Energy Rating System

A 6-star rating system for assessing the complete window system. WEERS combines the thermal performance of the glass, joinery and the size of the window. WEERS rating for LightBridge™ and Performatech™ are based on thermally broken window frames.



Technical Specifications

EnergySaver™ Save energy with an entry-level Low-E glass

	Heat Loss & Condensation	Visibility & Glare			Heat Gain		Fading
Make-up (Includes metal spacer and air)	U-Value (This is a measure of thermal performance. The lower the number, the better the glass performs).	Visible Light Transmission	VLR-E	VLR-I	SF	SC	Tdw-ISO
			External Reflectance	Internal Reflectance	Solar heat gain co-efficient	Shading co-efficient	
4mm/ 14 /4mm	2.0	77%	20%	21%	74%	0.85	0.69
4mm/ 16 /4mm	1.9	77%	20%	21%	74%	0.85	0.69

LightBridge™ Maximise light and heat in your home

	Heat Loss & Condensation	Visibility & Glare			Heat Gain		Fading
Make-up (Includes thermal spacer and argon gas)	U-Value (This is a measure of thermal performance. The lower the number, the better the glass performs).	Visible Light Transmission	VLR-E	VLR-I	SF	SC	Tdw-ISO
			External Reflectance	Internal Reflectance	Solar heat gain co-efficient	Shading co-efficient	
4mm/ 14 /4mm	1.2	82%	13%	13%	62%	0.73	0.65
4mm/ 16 /4mm	1.2	82%	13%	13%	62%	0.73	0.65

PermaTech™ Control light and heat in your home

	Heat Loss & Condensation	Visibility & Glare			Heat Gain		Fading
Make-up (Includes thermal spacer and argon gas)	U-Value (This is a measure of thermal performance. The lower the number, the better the glass performs).	Visible Light Transmission	VLR-E	VLR-I	SF	SC	Tdw-ISO
			External Reflectance	Internal Reflectance	Solar heat gain co-efficient	Shading co-efficient	
4mm/ 14 /4mm	1.1	73%	13%	14%	35%	0.40	0.53
4mm/ 16 /4mm	1.1	73%	13%	14%	35%	0.40	0.53

MEMBER
2020-2021



V:2.0

Viridian
we ♥ glass