



RETROFIT  
DOUBLE GLAZING



## Winterglaze Retrofit Double Glazing for a Warmer Home in Winter

Everyone wants a healthy, warm home environment for their families. It is widely accepted that the cost of the energy to heat New Zealand homes will continue to increase over the next few years. However traditional windows in New Zealand homes allow significant heat loss to occur through the single glass window panes – up to 50%!

Winterglaze Retrofit Double Glazing provides a warmer more comfortable home by reducing the amount of heat that is lost through single glazed windows. The Winterglaze Retrofit Double Glazing System fits into your existing windows and replaces your single pane of glass, with a high quality Insulating Glass Unit (IGU) completely integrated into your aluminium joinery.

### How Does Winterglaze Retrofit Double Glazing Work?

A single glass window pane is a very efficient heat conductor, rapidly transferring heat from the inside of your home to the outside environment. The Winterglaze Retrofit Double Glazing System installs a double pane of glass - with a pocket of air sealed in the middle - into your existing joinery system.

It is the separation of the two pieces of glass by air (or other specialty gases) which improves the insulation properties of the window dramatically - thereby reducing heat transfer.

Our high quality New Zealand manufactured Insulating Glass Units can reduce heat loss through windows by over 70%, if specialty gases such as Argon are combined with specialty Low Emissivity Glass in the finished Insulated Double Glazed Unit.







## Winterglaze Retrofit Double Glazing Options

**• AIR OR ARGON GAS – YOUR CHOICE**

Our standard IGU's are manufactured with an air space between the two panes. You can choose however to improve the performance of the Winterglaze unit still further, by upgrading to Argon Gas. Argon is an inert, naturally occurring and relatively dense gas – much denser than air. The insulating performance of a Winterglaze unit filled with Argon Gas rather than air is significantly better – see the table below!

**• EITHER STANDARD OR LOW-E GLASS**

Winterglaze IGU's are normally manufactured out of standard clear glass, with the glass thickness dependant on (amongst other things), the size of the glazing unit. Low Emissivity Glass (Low-E Glass) is manufactured with a completely transparent specialty coating on one side. This coating has reflective properties and when used in an IGU, is designed to reflect radiant heat back into your home, further reducing heat loss through windows.

Winterglaze IGU Type	Heat Loss Reduction <sup>(1)</sup>
Standard	47 - 54%
Low E and Argon	69 - 73%

## Some of the Advantages of Winterglaze Retrofit Double Glazing



**• CONDENSATION REDUCTION**

When used in conjunction with adequate ventilation, Winterglaze Retrofit Double Glazing will result in significant reduction in the levels of condensation forming on windows.<sup>(2)</sup>



**• COLOUR MATCHED TO YOUR WINDOW JOINERY**

Winterglaze Retrofit Double Glazing has no visual impact from the inside or the outside, as it blends in with your existing joinery. The outer frame is made from high quality extruded aluminium, which is then powder-coated in a wide range of Dulux colours with a 10 Year Warranty against fading or discoloration.<sup>(3)</sup>



• **ACOUSTIC ISOLATION**

Standard Winterglaze Retrofit Double Glazing can reduce the noise through windows, up to 25%. If a high performance Winterglaze IGU is installed, this improvement can be up to 60%.<sup>(4)</sup>



• **SENSIBLE INVESTMENT**

Most new homes built today include double glazing as a standard specification - and many prospective home buyers are looking specifically for this feature. By installing Winterglaze Retrofit Double Glazing, which operates as efficiently as new complete double glazed joinery, you are enhancing the potential re-sale value of your home.



• **QUALITY ASSURANCE**

Winterglaze IGU's are custom-made in New Zealand by approved members of IGUMA – Insulated Glass Unit Manufacturers Association and tested in accordance with international standard – EN1279.<sup>(5)</sup> Winterglaze Extrusions are surface finished by a Registered Dulux Architectural Powder Coating Applicator.



• **CUSTOM-MADE AND PROFESSIONALLY INSTALLED**

The nationwide network of Winterglaze Retrofit Double Glazing Manufacturers and Installers provide a local measure, manufacture and installation service. Drawing on years of experience in the glazing and/or aluminium industry, they will ensure that the right configuration of Winterglaze product is selected for your home and window hardware is correctly upgraded and installed.

(1) Heat Loss Reduction compared to Standard 4mm Clear Glass. Actual Performance is dependent on glass thickness and the space between the panes.  
(2) It is important to note that the main driver of condensation formation is the relative humidity inside of a home and other measures including quality home ventilation are equally important as glazing in order to reduce window condensation.  
(3) Go to [www.winterglaze.co.nz](http://www.winterglaze.co.nz) for warranty details.  
(4) Sound Reduction when compared to Standard 3mm Clear Glass. Uses perceived sound reduction where a 10 decibel reduction equates to 50% noise reduction.  
(5) BS EN1279-5:2005+A2 2010

