A young child with light brown hair is shown in profile, looking out a window. Their right hand is pressed against the glass, and their breath is visible on the surface. The background outside the window is a bright, snowy landscape with bare trees. The overall mood is serene and contemplative.

***Double glaze your  
existing windows  
for a warm, dry,  
comfortable home***

**RETRO**  
Double Glazing



# RetroFit your existing windows with Low E double glazing for a warmer, healthier home

FROM THIS

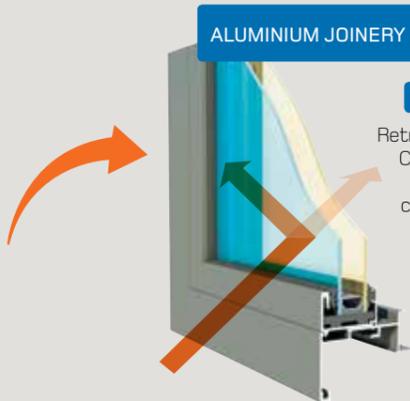
Old single glazing. Cold outside and cold inside.



ALUMINIUM JOINERY

TO THIS

RetroFit Low E. Cold outside, warm and comfy inside



*Retrofit double-glazing is the process of replacing your homes existing single glazing with double glazed units. Whether it be a single, south facing side of your home or your complete home, the process is quick and unobtrusive. The only difference you will notice is a more comfortable temperature all year round. This is not a low quality, clip-on solution. Our double-glazing solutions are purpose built for each home, and meet the highest construction standards. And with a large range of colour matching options to suit your existing window frames.*

## Benefits of RetroFit Double Glazing

### LESS HEAT LOSS PLUS MORE INSULATION

- Heat loss can reduce from 45% to 28% by using a Low E double glazed window
- Low E double glazed windows improve on the minimum performance of the window in houses as required by the NZ Building Code
- Improving window insulation will save on heating requirements in winter and cooling requirements in summer

### LESS CONDENSATION WITH INCREASED COMFORT

- Low E double glazing makes the internal glass temperature warmer and therefore reduce the onset of condensation on the inner glass surface
- Minimum room temperatures are recommended to be 16°C during the day
- Higher room temperatures around 20°C – 22°C are considered comfortable and help reduce condensation
- Low E double glazing is so efficient that, in certain conditions, it can sometimes cause the outside of your window to dew (as the outer pane surface is colder)

### CONTROL THE SUN AND REDUCE HEAT GAIN

- Solar Low E glass is best at reducing solar heat gain while maintaining insulation and high visibility

### CONTROL NOISE FOR A QUIETER ENVIRONMENT

- Compared to single glazing, double glazing can reduce sound transmission, resulting in a quieter and more comfortable environment
- By using thicker glass and / or glass panes of different thickness the acoustics are improved
- Special sound glasses can be included in the double glazed unit if required
- Depending on the type of window joinery in your home e.g. timber versus aluminium, external sound insulation may or may not be improved



## Wooden Joinery

Our national RetroFit team of professional glaziers has a wealth of experience and technical know-how in retrofitting timber windows, ensuring they match your existing windows



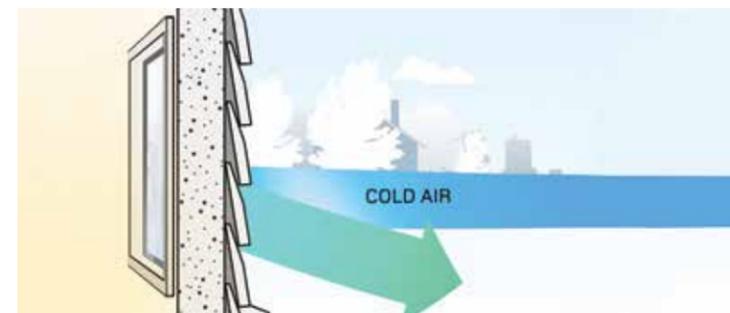
## How Low E works

Low E is an abbreviation of 'Low Emissivity', which is the ability to radiate energy. Low E glass has a unique Low Emissivity coating designed to reflect long wave radiation from the glass itself and from inside or outside the home

When you're heating your home during winter, less warmth will be lost through the glass.



Conversely when the sun is beating down in summer or it's freezing outside, less heat, cold or solar radiation will enter your home.



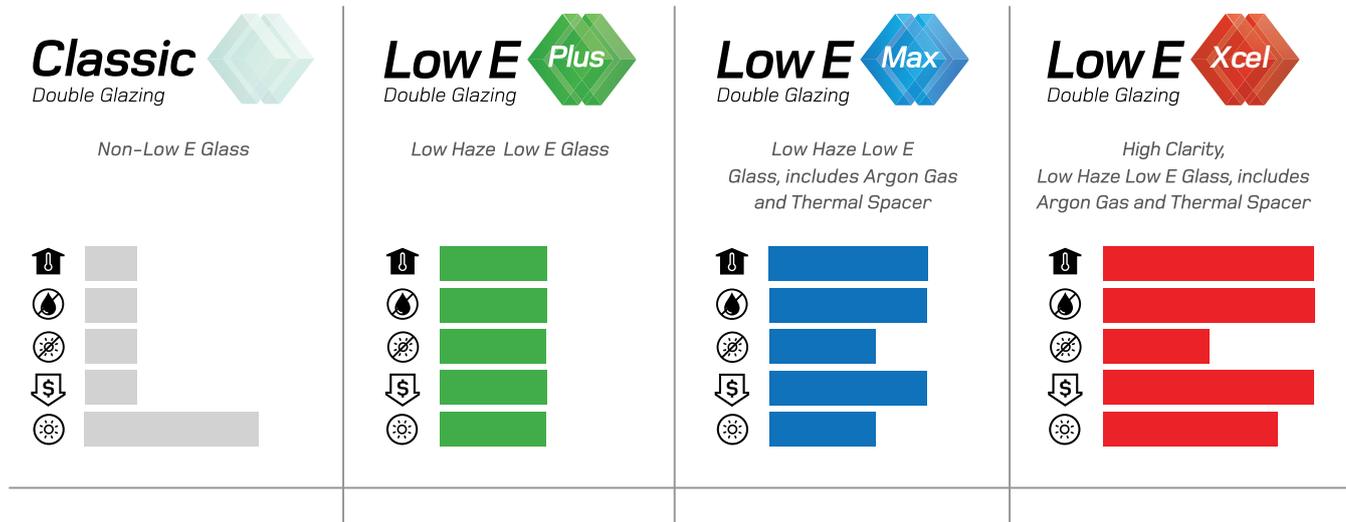
Low E double glazing performance is increased even more when adding a thermal spacer plus argon gas.



# Choose the level of Performance you need.

Metro's aim is to increase the performance of windows in housing. That is why Metro has developed a range of Low E double glazing, in addition to our classic and custom range, to suit your requirements and budget. While modern Low E Glass has a slight visual tint, Low E Xcel from Metro has a visual light transmission of 81%, which is virtually as clear as clear glass, which has a light transmission of 82%.

**The Metro Performance Selection Tool:** To help you select the right glass type for your new joinery, we have introduced a selection tool across our Low E range. This provides you with a comparison to classic double-glazing and a good, better and best Low E options.



-  **Better Heat Retention** Keep the warmth of your home in whilst keeping the cold out
-  **Less Internal Condensation** Virtually eliminates crying damp windows
-  **Reduced Solar Gain** Keep your home cool and comfortable in hot weather
-  **Greater Power Savings** Reduce heat loss and therefore heating and power bills
-  **Visible Light Transmission** The amount of day light that passes through the double glazing

Metro Performance Glass Double Glazing units are manufactured in New Zealand for New Zealand conditions and are regularly tested by BRANZ, compliant to EN 1279.

[www.retrodg.co.nz](http://www.retrodg.co.nz)  
0800 658 658

**RETRO**   
Double Glazing

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