The solution to a warmer, drier, more comfy home.

The glass you choose can make a huge difference to the comfort of a house and the size of its energy bills. That’s why it pays to choose Low E double glazing from the experts in performance glass.

Glass technology that’s clearly superior.

How Low E works

Low E is an abbreviation of “Low Emissivity”, which is the ability to radiate absorbed 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 house.

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

Benefits of Low E

- 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 the minimum performance of the window or house as required by the NZ Building Code.
- Improving window insulation will save on heating requirements in the winter and cooling requirements in the summer.

- Low condensation with increased comfort
- Low E double glazing makes the internal glass temperature warmer and therefore reduces the amount of condensation on the inner glass surface.
- Low E double glazing reduces the heat loss by 45%.
- Lower room temperatures are recommended to be 15°C at night and 22°C during the day.
- This results in a 10°C reduction in energy consumption.
- Low E glazing is as efficient, in certain conditions, they can sometimes cause the outer panes to dew as the outer pane surface is cooled.

- Control noise for a quieter environment
- Double glazing reduces the sound transmission compared to single glazing so they make the environment quieter and more comfortable.
- By using thicker glass or glazing panes of different thickness the acoustics are improved.
- Special acoustic glasses can be included in the double glazed unit if required.

- Be safe and secure in your home
- Toughened Safety Glass will be used to comply with NZS 4223 Part 3 – Human Impact Safety Requirements, where required, either as the Low E outer pane or clear inner pane.
- Toughened Safety Glass is ideal for strength and temperature resistance.
- Laminated Safety Glass can be used in high impact areas such as doors.

Additional Benefits of Low E

- The Metro Performance Rating (MPR) does not include sound control, safety and security features in the rating, as the Low E glass does not affect the performance, so these are additional benefits you get when selecting from the Low E double glazing range.

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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.

The Metro Performance Rating: To help you select the right glass type for your new joinery, we have introduced a unique Performance Rating across our Low E range. This provides you with good, better and best options.

Choose the level of Performance you need.

Using a standard Aluminium frame

Using a standard Aluminium, Wood or Pvc frame

ENERGY STAR® Qualified windows must receive a rating of 3 stars or greater

The average house lot of joinery totals 41m² of glazing in a typical frame with 3 doors and 17 windows. The Indicative WEERS star ratings shown are a guide and will vary with different frame types and/or window/door sizes. The WEERS scale is out of 6, the higher the star rating the better the windows thermal performance. Energy Star® Qualified windows must achieve a rating of 3 stars or greater and are available from Energy Star® qualified partners.

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.

Contact your local Metro representative for more information about our range of Low E IGUs.

Call 0800 658 945