



GLASS & WINDOW
SOLUTIONS



**YOUR LOCAL RETROFIT
DOUBLE GLAZING SPECIALISTS**

PHONE: 03 538 0100

glassandwindowsolutions.co.nz



What is retrofit double glazing?

It is the process of replacing the existing single glazing in your home with more efficient double glazed units. As retrofit specialists we have successfully completed many projects in the Top of the South region. Retrofit double glazing is a sure way to make your home warmer, drier, healthier and more

comfortable through all of the seasons. Talk to us about the double glazing options available and let us help you select the perfect solution that best suits your family, your home, and your budget.



SUMMER

- Heat Gain Control.
- Reduced Cooling Costs.
- Increased Comfort.
- Quieter Living Environment.
- Healthier Home.
- Reduced Glare.
- Reduced Fading.



WINTER

- Heat Loss Control.
- Improved Insulation.
- Reduced Heating Costs.
- Increased Comfort.
- Less Condensation.
- Quieter Living Environment.
- Healthier Home.



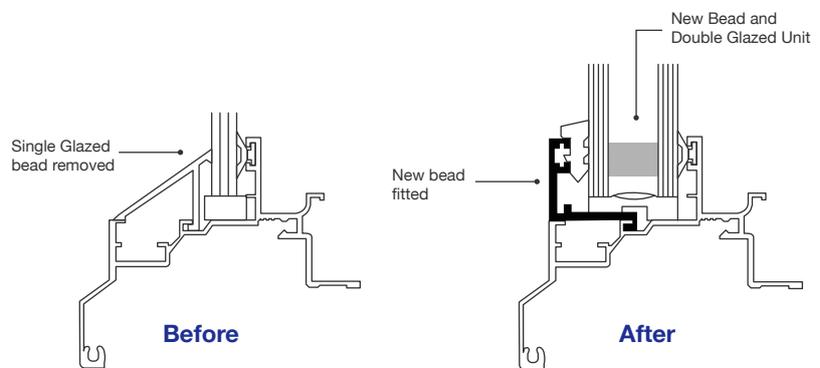
What is involved to retrofit my home?

Every retrofit project we've undertaken is unique. As retrofit specialists we're happy to walk you through the entire process and give you the benefit of our industry experience. We will work with you and do as much or as little as you require. Every

attempt is made to keep inconvenience and disruption in your home to a bare minimum. It is our ambition for you to be enjoying all of the comforts and benefits retrofit double glazing brings as quickly as possible.

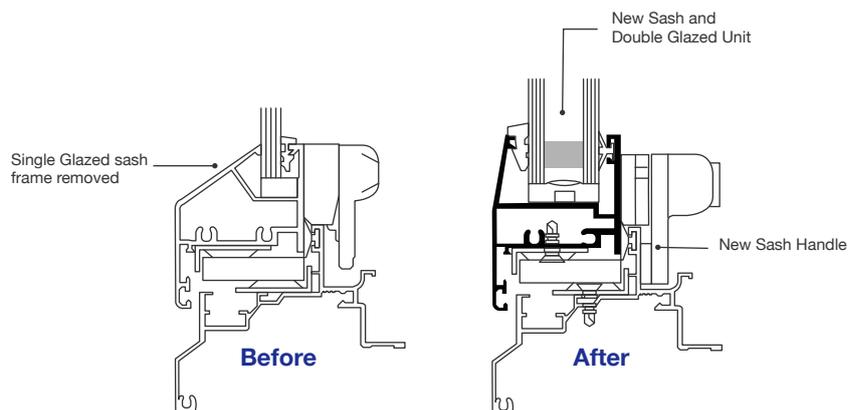
Fixed Frame Windows - non-opening Windows

Inserting a new double glazed unit into these windows is a very simple process. To reveal the double glazing pocket we remove the existing aluminium bead. The new unit is placed into this pocket and a new colour matched bead is inserted to securely hold the unit in place and complete the retrofit.



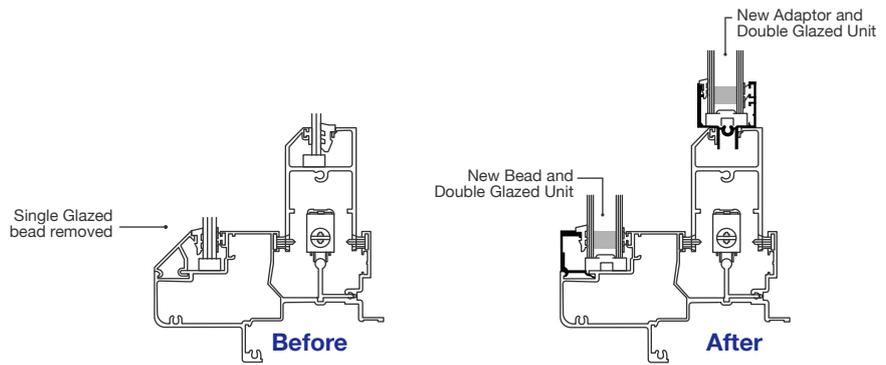
Sash Frame Windows - opening Windows

Windows that open are commonly referred to as sash windows. When it comes to retrofitting them in your home the work is a little more detailed, because we have to completely remove the existing sash and replace it with a new double glazed frame. The work also includes new window stays and new window handles.



Sliding Doors

To retrofit sliding doors a special adaptor frame is fitted into your existing set-up. This new adaptor frame securely holds your new double glazed unit in place.



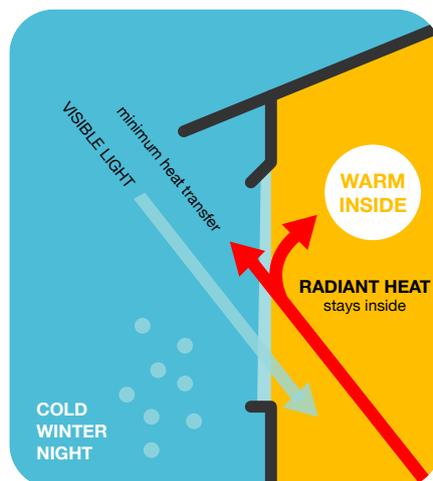
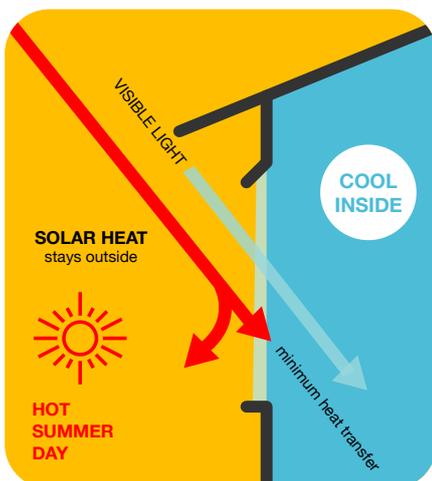
How does Low E glass work and do I need it?

Low E is a common abbreviation for "Low Emissivity" and this translates to a surface that gives off low levels of radiant heat. All glazing reflects, takes in, and transfers heat and so by using Low E glass in your retrofit the amount of heat transfer is further reduced.

The clear, high performance metal coating on Low E glass is extremely thin, so it's virtually invisible to the naked eye. Yet it is highly effective in reducing heat loss and adding insulation.

Simply by using Low E glass with Argon gas, your home heat loss can be reduced by a staggering 50% over standard double glazing. Thermal performance is increased by reducing ultraviolet and infrared light coming through the window, with no compromise on actual visible light. Radiant heat, from both inside and outside are reflected therefore your home is warmer in winter and cooler in summer.

Low E Coating

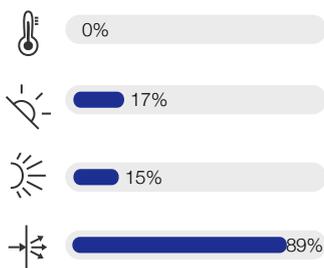


ADDITIONAL LOW E BENEFITS

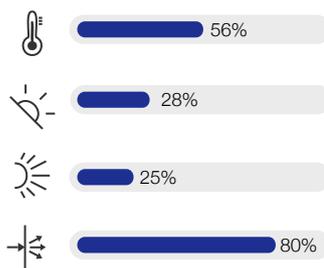
- + REDUCED HOME HEATING/COOLING COSTS
- + IMPROVED INSULATION
- + INCREASED HOME COMFORT LEVELS
- + REDUCTION OF HEAT LOSS
- + REDUCED FADING AND GLARE
- + LESS CONDENSATION



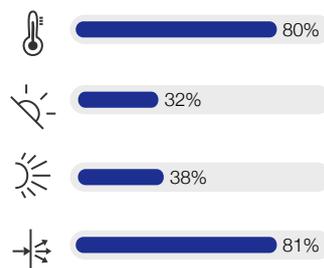
STANDARD
(SINGLE GLAZED)
WINDOW



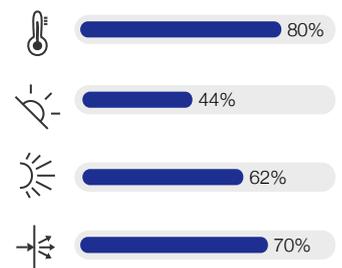
STANDARD
DOUBLE GLAZING



COMF-E 141
LOW E
DOUBLE GLAZING



COMF-E 138
LOW E
DOUBLE GLAZING



THERMAL PERFORMANCE (INSULATION) - performance in retaining internal heat.



UV CONTROL - ability to reduce effects of UV light.



SOLAR CONTROL - ability to keep home cool in summer heat.



VISIBLE LIGHT TRANSMISSION - natural light levels within your home.

All the graph figures shown above are from Glass & Window Solutions Internationally supplied Retrofit Double Glazed units using a 12mm spacer with Argon gas. Calculations based on LBL W7 Software using NFRC 100-2010 Summer Conditions.



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SPECIALISTS IN RETROFIT DOUBLE GLAZING