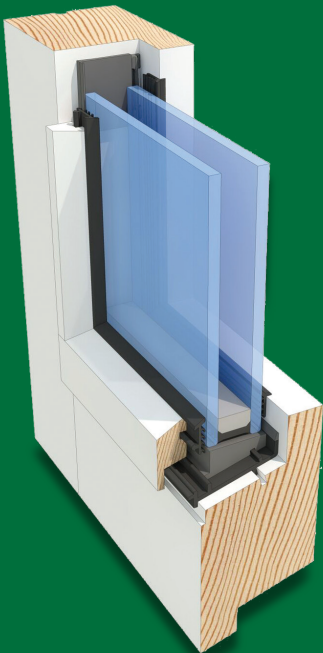


Thermawood

RETROFIT & NEW TIMBER DOUBLE GLAZING SYSTEMS



Retrofit Pricing FAQ's

www.Thermawood.co.nz



THERMAWOOD FAQ PRICING GUIDE


Many property owners today are using new double glazing to cut energy costs while also increasing the security, comfort, and air quality of their home. And for urban dwellers, to drastically reduce noise levels, creating an indoor space that is the peaceful haven it should be.

The problem is, due to the complex work and extra materials required, new double glazed windows are not budget-friendly. Having to replace your existing windows and window frames can also sacrifice the original aesthetic of the home, leaving many homeowners to wonder if the investment is worth it, despite the energy benefits.

On the other hand, alternatives to new double glazed windows, such as secondary glazing (which costs about the same as Thermawood's patented retrofit double glazing) is less expensive than new double glazed windows but secondary glazing comes with its own set of problems.

Secondary glazing is less than half as effective at protecting a home from heat loss, solar gain and draughts.

It also does not properly address issues such as glare, condensation, and home safety. Secondary glazed windows are also difficult to take care of, as you have to clean four glass surfaces, two of which are difficult to reach.



WORK WITH YOUR EXISTING TIMBER FRAMING

Thermawood's retrofit double glazing system offers property owners a cost-effective solution.

It doesn't just provide the ultimate performance in window requirements, it also allows you to maintain the existing aesthetic of your home. Thermawood retrofit is the best product on the market for converting existing single glazed windows into double glazed timber windows

- Improves insulation by as much as 73%
- Reduces energy expenses, which means you'll make back the cost of your converted windows over time
- Reduces noise by as much as 70%
- Reduces condensation from forming on the inner surfaces of your windows, which means a drier, healthier home
- Reduces UV damage to indoor soft furnishings
- Better security with options for Safety Glass
- Low E glass and argon gas for even greater benefits in terms of energy efficiency

Double glazing using Thermawood's patented retrofit system is also good for the environment. Not only will you reduce your energy usage, you also won't have to use new materials to get the superior windows your home deserves.

Traditionally, new double glazed windows require the entire window and frame to be ripped out and replaced. Not with Thermawood. You can continue using your original timber window or door framing. Committed to sustainability, Thermawood also uses parts that are made from 100% recycled materials to further reduce our carbon footprint.

By converting your existing wooden windows with Thermawood's retrofit double glazing system, you'll enjoy the benefits of a quieter, more comfortable, safer home without having to overspend – or to destroy the authentic character of your existing windows by having to do a full window replacement.

You'll also add value to your home – double glazed windows, with the original character preserved, will make your home more desirable when it comes time to put your property on the market.



HOW MUCH WILL IT COST?

The cost of converting your windows with Thermawood's patented retrofit double glazing will vary depending on the glass that you choose to use as well as the dimensions of your windows or glass doors.

Converting your existing windows will cost much less than new double glazed windows, with a similar price level to secondary glazing.

Get all the energy efficiency and home value advantages of double glazing and draft and acoustic seals without the high price.



WHAT IS THE PROCESS?

1. Request a quote

The Thermawood patented retrofit double glazing system is only available through Thermawood. To find out how much it will cost to convert your windows, simply fill in the request a quote form on the website. You can also email us directly.

- info@thermawood.co.nz

2. Schedule an appointment

We'll get back to you right away to schedule an appointment at your earliest convenience. One of our professionals will come out to your property so we can measure your windows and provide you with a quote.

3. Have your free assessment

When we come over to measure the dimensions of your windows, we'll also conduct a free assessment. We'll talk about concerns such as heat loss, noise level, glare, as well as any health and safety concerns you may have in relation to indoor air quality as well as the strength and durability of your glass.

We'll work with you to help you determine the best types of glass to use for your conversion so you'll get the results you want. The type of glass you choose will also go into determining the price of your retrofit.

We also price per room for your convenience.

4. We'll send your quote

After we have our assessment and measure the windows, we'll go back and calculate the overall cost of the project. Each quote

is itemised to provide a clear view of the pricing structure for each individual room.

Optional extras like glass upgrades for laminated glass to improve acoustics, Low E glass and argon gas for enhanced insulation, draught and acoustic seals, or hardware upgrades are all itemised within your customised quote. Within two to three days, we'll send you the quote for you to review and approve.

5. Approve your quote or adjust to suit your requirements

The next step is simple. Now that you have learned the processes and benefits Thermawood can offer look over your quote and the details of your planned project and adjust it further should you choose to.

Once it's approved, we are ready to get started. As soon as you put down your deposit, we can order the glass and hardware materials and set up a time to install your double glazing into your existing windows.

6. Installation begins

Installation usually takes about two hours per panel. Two Thermawood retrofit professional installers can generally complete between six and eight panels per day.

Depending on how many windows you have in your home, the entire installation process can happen in one day or a week. It depends on the number of panels being done.

We never leave your home unsecure during the process and every window we begin is always completed the same day so your property is never left vulnerable.



CAN I HAVE MY NON-TIMBER WINDOWS CONVERTED?

At Thermawood retrofit double glazing is only possible with your existing timber windows. We won't be able to convert windows made from aluminium or other materials, including aluminium windows with timber reveals.

Many older properties were constructed with wooden windows. As long as the timber hasn't rotted, with our patented process, your original timber is perfect for your retrofit.

We have designed our system so we can install the new glass panels without having to do a full – and expensive – window and window frame replacement.

The best part is your windows will maintain the same character and charm of their original design.



HOW DOES DOUBLE GLAZING WORK?

Thermawood's patented retrofit double glazing is the most effective way of enhancing the insulation of your home. In homes with single glazed windows, you may be losing as much as 48% of your home's heat through the glass.

With retrofit double glazing, less heat escapes in the winter. It also has the effect of blocking out solar heat in the summer, providing insulation all-year round.

The insulation properties of a retrofit double glazed window also block out exterior sound waves, which can be a huge benefit for those who live in the city where traffic sounds and other noise pollution can be a real problem.

What happens is the existing pane of glass is removed and replaced with a double glazed IGU (insulated glass unit). An IGU consists of two panes of glass, which are separated by a gap of 6 to 18 mm. This gap is filled with air or an insulating gas, such as argon. The effect is a powerful layer of insulation that completely transforms the quality of the indoor environment.



WHAT IS THE THERMAWOOD INSTALLATION PROCESS?

Retrofit double glazing is different in that your existing timber frame will remain in place. We also ensure that everything we take out is returned in the same day, which means you don't have to worry about the security of your home at any point during the installation process.

Using Thermawood's purpose-designed tooling, our same day retrofit starts with removing a small part of the external window frame and creating a 15-degree slope. This allows us to install the grand adaptor, a unique design made from 100% recycled materials. It, and all our components, are manufactured in New Zealand.

Using a specially designed two-compound backing seal and support blocks, the double glazing is placed on the window and the front seal is attached.

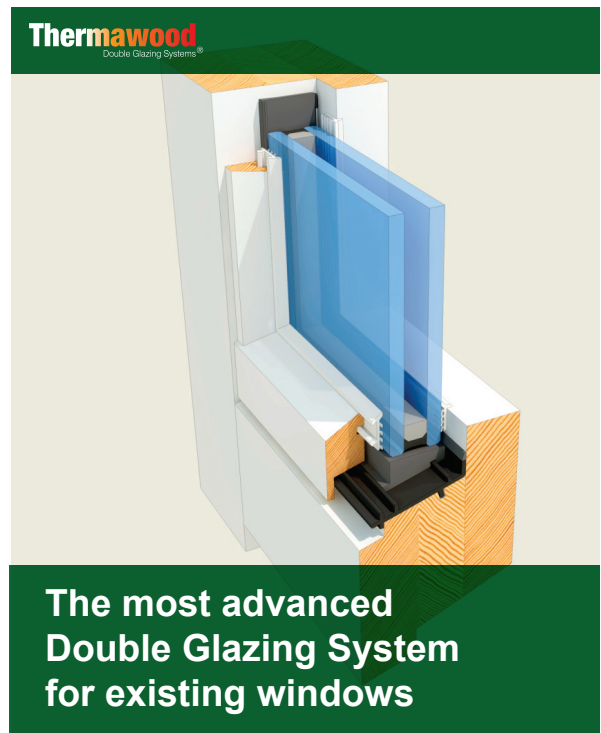
Part of what distinguishes our retrofit system is that it is designed to allow the maximum amount of moisture to escape, helping to prevent condensation buildup.



Before



After



WHAT ARE THE PRICING VARIABLES?

What glass type and thickness is right for your retro-fit?

We'll assess each room in your property to help determine the best window types and thickness. You don't have to use the same types of glass for each room in your house. In fact, you may prefer different features depending on the placement of your windows around your property.

All our glass panel options are high-value, leaving you with beautiful windows and superior energy efficiency no matter what you choose. By combining the correct features, you can maximise the comfort and insulation benefits of your windows.

What type you choose will help to determine the cost of your Thermawood retro-fit double glazing. Here are the different types of double glazing you can pick to achieve the results you want:

Reduce heat loss and condensation

IGU (insulating glass units) is a good option

Low E IGU glass is better as it will trap heat inside by reflecting long wave radiation (it also reflects the same long wave radiation, reducing heat gain in the summer)

Low E IGU + Argon is your best option for heat loss and condensation benefits

- IGU glass meets minimal requirements for thermal reduction, resulting in 46 to 54% heat loss reduction.
- Low E (Low Emissivity) will increase the insulation benefits even further
- Argon, an inert gas that can be installed inside the double glazing to add even more insulation
- Combining Low E and argon will yield a higher performance window and reduce condensation

Reduce heat gain

Low E IGU is a good option

- A lower shading co-efficient (SC) will reduce the heat gain
- Low E will lower heat gain

Glare

Low E + IGU is a good option

- The lower the visible light transmission, or VLT, the lower glare

Fading

Laminated IGU is a good option as the PVB interlayer will absorb UV light

- Laminated will help to reduce fading
- Low E also helps to reduce UV transmission even further

Noise reduction

Laminated IGU is a good option as it dampens sound even more

SoundStop IGU is best, it is a special laminated glass

- Thicker glass helps to reduce noise
- Using varying thicknesses will improve the acoustics even more
- Both laminated and IGU will contribute to noise reduction

Safety and security

Toughened IGU is a good option

Laminated IGU is better, it is a safety glass that will stay intact if broken

Super SafeLite IGU is best, it is a special security glass, designed for forced entry protection

- Safety Glass can be on one or both sides of an IGU
- There are special Safety Glasses for varying levels of security

Draft and acoustic sealing

For all types of windows – awning, casement, door or double hung – an optional seal can be installed to close any existing gaps. This serves to prevent draughts and to offer a more complete acoustic benefit as sound waves are reduced as much as possible.

What happens during this process is the Thermawood seals are machined into the window itself, rather than sticking them on the structure, which often results in seals that fall off the first time the window is opened.

Our goal is curtains that never move and flawless peace and quiet in your home because draughts and unwanted sound waves have no way in.

Automation for double hung timber windows

Smart windows improve the energy efficiency and safety of your home – all at the touch of a button. Thermawood can automate your existing double hung timber windows.

We provide both wireless and fixed wire installation and can seamlessly integrate your window automation into your current home automation solution.





THE THERMAWOOD ADVANTAGE

With Thermawood's retrofit design, you'll pay about one-third of the cost of new double glazed windows. You won't have to replace your existing windows, or rip out your current timber frame, which will mess with the cladding, internal linings, and can possibly destroy the aesthetic of your home.

Contact us today to request a quote. You don't have to risk your home's beauty or spend a lot of money in order to get the efficient, well-insulated, premium windows that you've always wanted.

We've created a solution. Join the thousands of Australian and New Zealand property owners who are already enjoying the advantages of the Thermawood retrofit double glazing system.

