

Thermologic™

BY JEWEL SASHLESS WINDOWS



Pioneering sashless window design for unmatched energy efficiency.

Thermologic is a groundbreaking range of thermally broken sashless windows created by Jewel Sashless Windows. With 40 years' experience designing and manufacturing windows, we know them inside-out. Recognising a gap in the market for a thermally broken *vertical* sashless window, we decided why not design one ourselves? Three years down the track, after countless hours testing, refining and perfecting the system, Thermologic is the result.

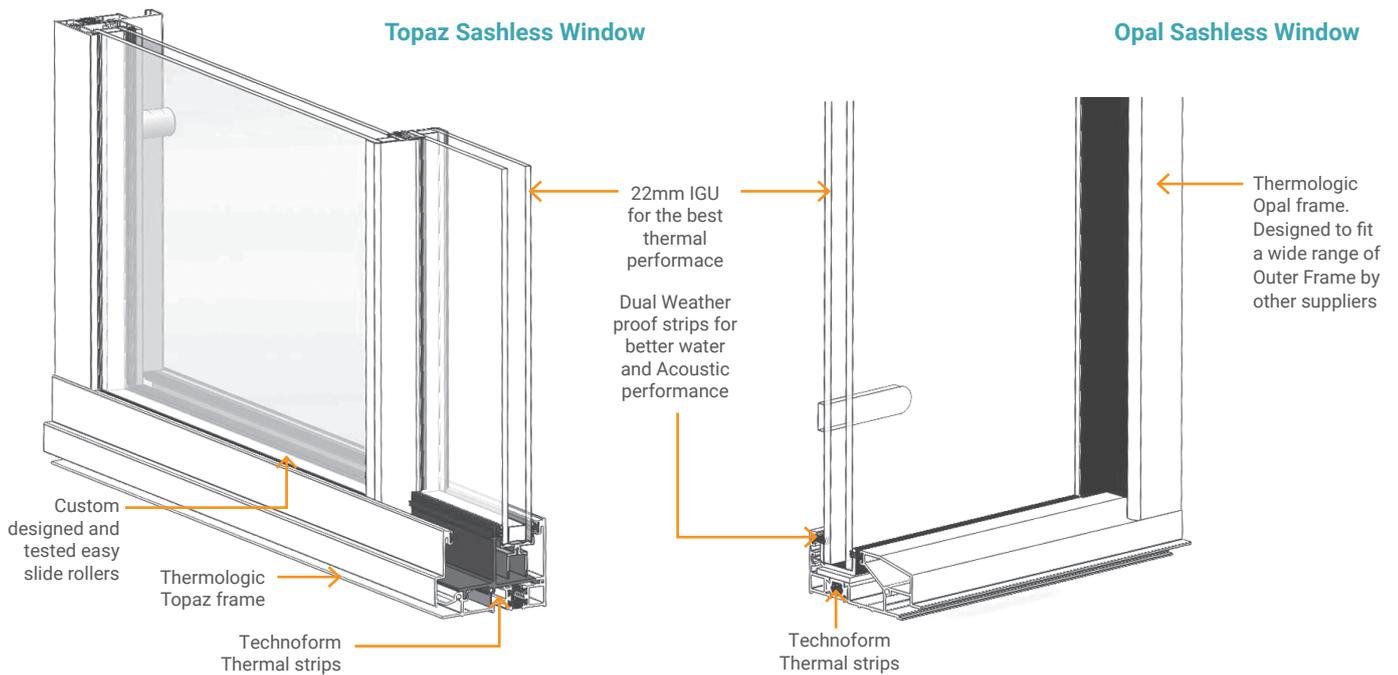
And what a result it is, with the Thermologic sashless window system rated up to **40% more efficient than standard non-thermally broken aluminium sashless windows on a glass-for-glass basis**. Combine them with other energy-efficient building materials and you can expect an even bigger improvement to the overall insulation of your home, office or building. With soaring energy costs and compliance standards harder than ever to achieve, Thermologic sashless windows deliver all the benefits large windows bring without compromising energy efficiency.

THERMAL BREAK TECHNOLOGY

So, how do they work? Thermologic is the technology that lies at the core of our new thermally efficient sashless aluminium window systems which makes them up to 40% more efficient. The thermal break in Thermologic sashless windows is created using a polyamide strip between the aluminium exterior and interior elements, with polyamide being an excellent thermal insulator. This thermal break dramatically minimises the transfer of heat and cold through the aluminium window frame, giving the window excellent insulation properties.

Thermally broken aluminium window systems help to maintain optimal internal temperatures in any building and reduce the need for artificial heating or cooling. Imagine being able to incorporate large expanses of glass into your design without compromising energy efficiency or compliance requirements. Thermologic makes it possible!

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THE BENEFITS

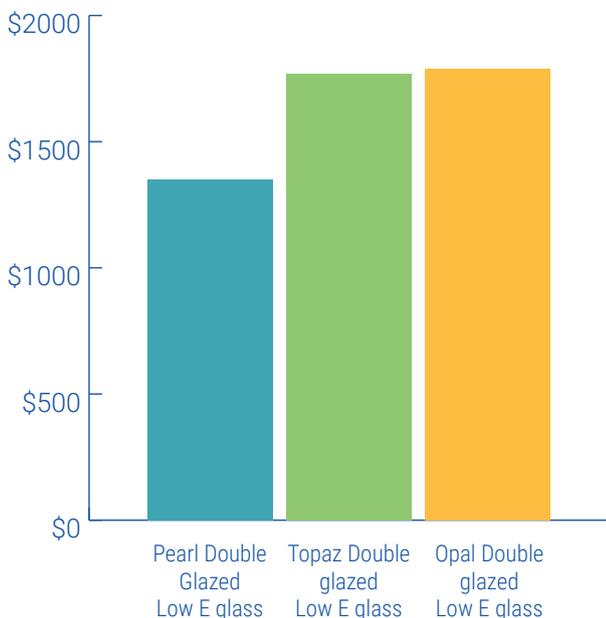
Energy Efficiency

Energy efficient window and door systems are an important part of any green building project, with thermal break technology delivering a number of benefits for energy rating compliance. Thermologic sashless windows offer substantially improved insulation properties for the building envelope as well as greater resistance to solar heat gain. An energy efficient alternative to non-thermally broken sashless aluminium window products, they enable you to maximise efficiency and comfort within your projects not to mention the ongoing financial savings over the buildings lifetime.

Cost Savings

So, just how much can you save?
Let's break it down.

The more Thermologic product you use versus non-thermally improved products, the more you'll save with the potential of up to \$995 off your power bill per year.



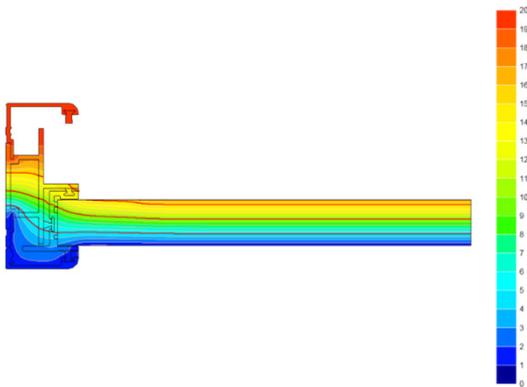
Annual household energy savings when using Jewel Sashless Windows compared to a generic double hung window

Data is based on the independent AGWA efficient glazing calculator. Every effort has been made to select comparable products. The results are conservatively based on a medium sized house and current energy costs of \$0.25 per KWh. We have modelled 80% of heating and cooling energy is electric. Results may differ slightly by suburb or your local energy costs

Improved Insulation

The insulation properties of a window are measured as a U-value, which provides an indication of how much heat energy is transferred through the window. The lower the U-value, the better the window is at keeping the heat or cold out.

This illustration shows how the insulation properties of Thermologic sashless windows, combined with appropriate glass selection, improve the U-value and window performance in a cold climate. The principles operate in reverse in a warm climate. Whatever your climate, Thermologic sashless window systems provide excellent insulation minimising the transfer of heat or cold between the internal and external environment.



Design Flexibility

Architects and designers face continually tightening energy provisions when it comes to designing buildings. Thermologic gives architects and designers the flexibility to create beautiful, functional spaces which achieve compliance, deliver energy efficiency and ensure comfort for occupants.

Windows bring so much to buildings: natural light, connection with the outdoors, ventilation and a sense of space. Thermologic thermally broken sashless window systems ensure windows can continue to play an important role in energy-efficient buildings. Often a site will have a less-than-perfect orientation, or clients may want large expanses of glazing facing a spectacular view

or prominent street frontage. In many cases, a lack of thermally efficient sashless window systems has forced architects and designers to alter designs, and reduce or eliminate windows, just to meet the energy provisions. Finally, Thermologic thermally broken sashless aluminium windows provide a solution, enabling you to incorporate large expanses of glazing and still comply with stringent energy provisions. Using Thermologic sashless windows helps you create wonderful, comfortable environments for occupants which deliver all the benefits large windows bring while managing the issues of thermal conductivity and insulation.

We recognise that aluminium sashless window and door systems need to be simple and stylish. We work hard to design our systems so they blend seamlessly into your projects, offering architects a simple style platform which will not look out of place. Delivering a clean, bold aesthetic, Thermologic Sashless Windows are free of grooves or ridges, hardware has been carefully thought out and ingeniously fitted, and minimal radii have been applied to profiles. The style is simple and unobtrusive, enabling the building itself to really shine.

OTHER BENEFITS

- Conducts heat 400 times slower than normal aluminium
- Added layer of security with the option to install security screens
- Low maintenance, long lasting and durable
- Powder coated surfaces with a large range of colours including all Dulux and Interpon warranty range. We also offer an anodised finish in a range of colours
- Integrates perfectly with most thermal framing systems

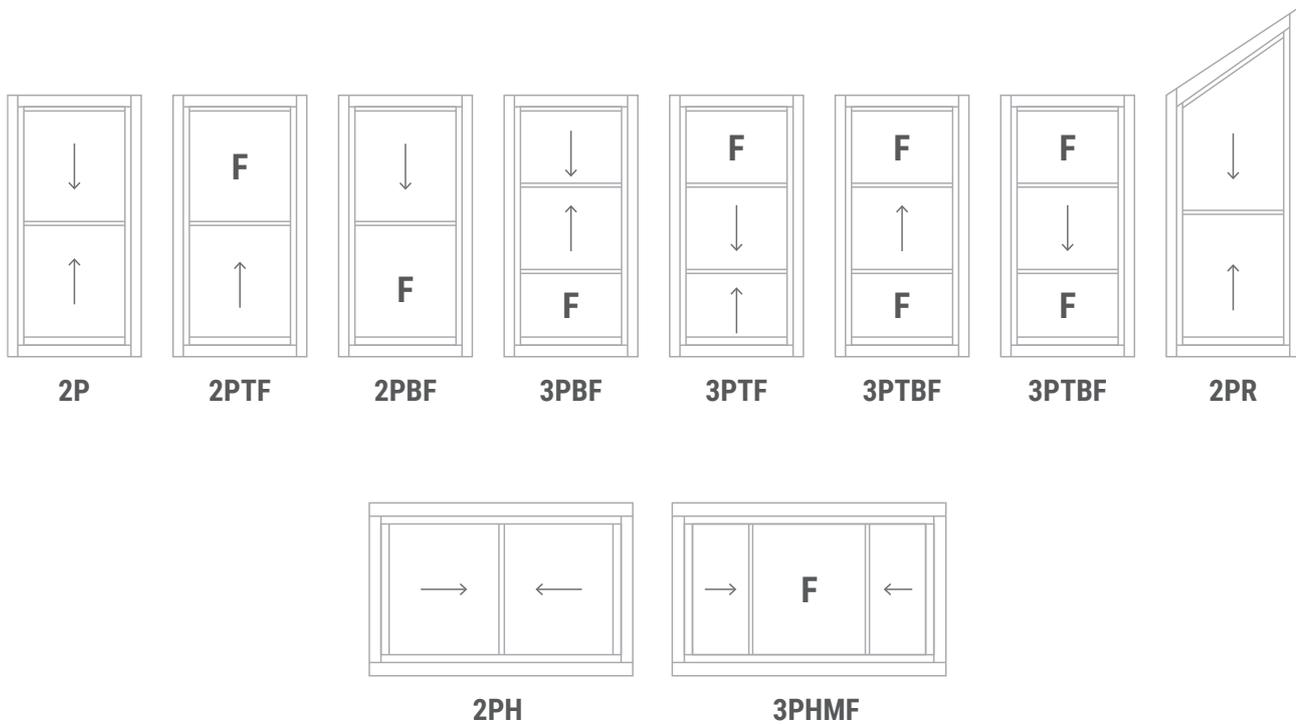
Designed to exceed Australian Standards

Thermologic thermally broken aluminium sashless window systems are Australian designed and fully tested to meet and exceed Australian building standards. Over the past five years, government requirements on energy efficiency in all new buildings have become increasingly stringent. For a long time, aluminium window systems have been found lacking in this area. Finally, Thermologic solves this problem, delivering to the Australian market a locally designed thermally broken sashless aluminium window system which offers an immediate solution to Section J headaches.



OUR RANGE

JEWEL SASHLESS WINDOWS STANDARD CONFIGURATIONS



WARRANTY

We offer a 7-year warranty on our Thermologic sashless windows. Over and above this, we offer peace of mind that using our thermally broken sashless window systems in your project will not only help the environment but also save you money year in, year out. It's a win-win.

WHAT NEXT?

Want to learn more about Thermologic sashless windows? We'd love to help. Contact us on (03) 9770 8708 or sales@jewelsashless.com.au and we'll be in touch promptly to discuss your needs.

ABOUT US

With over 40 years experience in the window industry, Jewel Sashless Windows delivers a wealth of knowledge and a passion for innovation.

In Victoria, and interstate, we offer a full installation service through our team of skilled installers and trusted co-branded distributors with full service and support available for the life of our products.

Our full range of products is also available in knock down kit form to window fabricators allowing full control of schedules and costs on all your projects.

Being a small, 100% Australian owned and operated business, we pride ourselves on our quality and service, working with our customers to ensure beautiful, functional results every time.