

ThermaColour™

DESIGNER SERIES



Thermally improved
aluminium windows and doors
with dual colour



ALUMINIUM
SYSTEMS

BUILDING APPLICATIONS

The ThermAcolour™ aluminium window and door suite is ideal for buildings that require either high thermal performance or a fresh colour option.

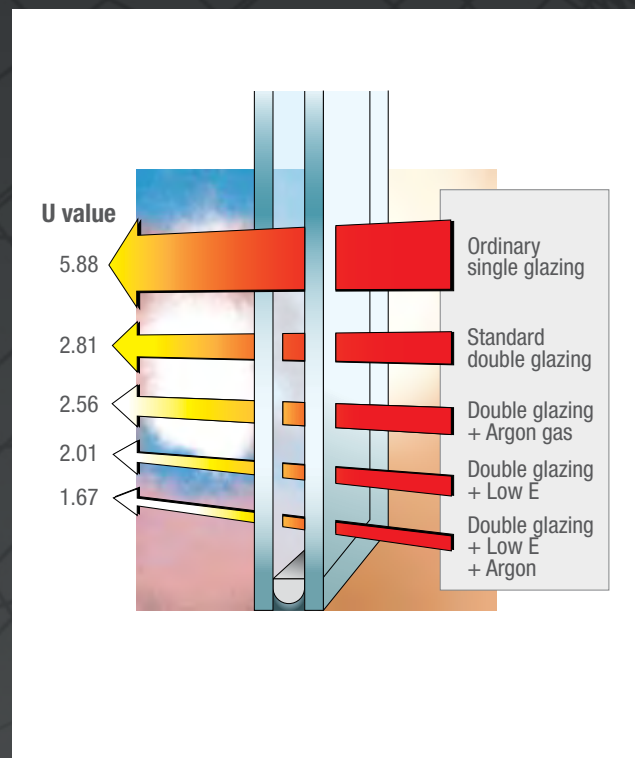
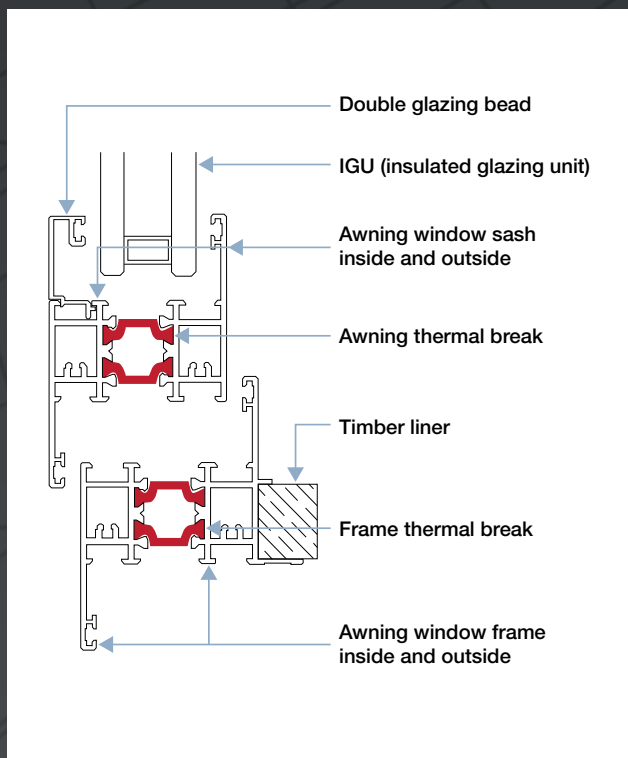
- Architecturally designed homes
- Schools
- Apartments
- Townhouses
- Retirement villages

WHAT IS A THERMAL BREAK SYSTEM?

By separating the window or door frame into exterior and interior components and inserting a less conductive reinforced black polyamide insulating strip in the centre of the profile an effective thermal insulation break. This break stops the heat being lost through the frame during winter and heat coming in during the summer. Thermally broken frames combined with double glazing, provides a far more energy efficient, moisture free, comfortable internal environment while maintaining a strong aluminium structure.

FEATURES AND BENEFITS

- Thermally improved suite providing **better thermal insulation** for enhanced comfort
- Dual colour can be achieved using **a wide range of finishes and colours**, using powdercoat anodising or Eurocote™ for the exterior and/or interior window and door sections for great looks and latest design
- H-Faktor™ **thermally improved entrance doors** achieve a complete look
- Double glazing achieves high acoustic insulation resulting in **less internal noise**
- **Improved energy savings** on heating or air conditioning
- **Reduction of condensation** for a healthier home
- Italian designed co-extruded EPDM seals for **maximum air seal** and weather tightness
- Low maintenance, **long lasting** and corrosion resistant benefits of aluminium
- Powdercoat and Eurocote **warranty for 10 years**



COLOUR OPTIONS

The beauty of separating the window or door frame into exterior and interior components is that it provides an opportunity to colour mix and match the aluminium profiles. ThermAcolour™ is available in a wide range of colours and hard-wearing finishes designed to withstand New Zealand's harsh climate:

- One colour powdercoat (40 standard colours)
- One colour anodised (6 standard colours in either standard or mist finish)
- Exterior anodised (6 colours) and Interior powder coated
- Exterior anodised or powdercoated and Interior in Eurocote™ (6 colour options)

Note 1: The thermal insulator in the centre of the window or door profile is left in its natural black colour.

Note 2: Refer www.aslnz.co.nz for full range of colour and finish options.

WHAT IS EUROCOTE?

Eurocote™ is a heat bonded wood grain coating that not only looks and feels like the real thing but is durable and low maintenance. Eurocote™ provides a wide range of colour choice opportunities. You may choose to have anodised aluminium on the exterior of the joinery or wood grain Eurocote™ on the inside.

Eurocote™ is available in 6 wood grain finish options

Acacia Natural



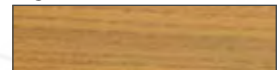
Light Cherry FL Natural



Dark Walnut Natural



Light Oak Natural



Dark Cherry FL Natural



Dark Oak Natural



COATING WARRANTIES

The ThermAcolour™ thermally improved aluminium window and door suite utilises Interpon D1010 Premium architectural powder coatings to provide a durable, resilient colour finish. For standard residential applications, this is applied to a minimum 60 micron thickness but can be increased up to 80 microns for more unforgiving environments.

The D1010 powder coatings are warranted that the film will not check or crack and the colour **will not fade for a minimum of 10 years** from the date of application when applied and tested in accordance with AS3715-2002.

Anodising is available in silver, bronze and black colours. The quality and longevity of the anodise finish is dependent on the thickness of the oxide layer. The standard is 12 micron with 20 and 25 micron thicknesses also available for specific environmental, commercial or marine environments.

All Eurocote™ finishes are covered by the New Zealand Standard Powdercoat Warranty for 10 years.

QUALITY WINDOW AND DOOR SEALS

Every Aluminium System ThermAcolour™ window and door, utilises Italian designed high performance black EPDM (Ethylene Propylene Diene Monomer) rubber to seal every joint where air and water leakage could occur. These seals have been tested for water penetration resistance at wind speeds of approximately 145km/h, which is triple the performance of normal seals.

TESTING

The ThermAcolour™ suite has been tested at very high pressures, in some cases simulating wind speeds in excess of 270km/h, to test ultimate structural strength. ThermAcolour™ complies with NZS4211 and AS2047. Test Certificates are available upon request.

DESIGN LOADS

The ThermAcolour™ suite, where recommended size guidelines are not exceeded, will perform in either a very high wind zone (NZS4211) and to N5C3 (AS2047). It achieves the relevant standards for serviceability wind pressure, ultimate wind pressure and water pressure requirements. ThermAcolour™ is also suitable for 'specific design' applications.



Window options	Fixed	Awning and Casement	Bifold	H/D Bifold	Freefold Bifold	Double Hung	Sliding
Depth of Frame	41mm	41mm	41mm	51mm	N/A	N/A	102mm
Weather cover facing	21.5mm	21.5mm	21.5mm	21.5mm	N/A	N/A	21.5mm
Maximum panel weight	40kg	40kg	50kg		N/A	N/A	160kg
Maximum glazing	24mm	24mm	24mm	35mm	N/A	N/A	20mm
Bottom Rolling	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Maximum height in high wind zone*	2.6m	1.6m	2.2m	2.6m	N/A	N/A	2.4m
Maximum panel width	1.8m	0.85m	0.85m		N/A	N/A	1.6m

Door options	Hinged	H/D Hinged	Bifold	H/D Bifold	Freefold Bifold	Slider	Stacking Slider
Depth of Frame	41mm	41mm	41mm	51mm	N/A	102mm	150mm
Weather cover facing	21.5mm	21.5mm	21.5mm	21.5mm	N/A	21.5mm	21.5mm
Maximum panel weight	50kg	75kg	50kg	50kg	N/A	160kg	160kg
Maximum glazing	24mm	35mm	24mm	35mm	N/A	20mm	20mm
Bottom Rolling	N/A	N/A	Yes	Yes	N/A	Yes	Yes
Maximum height in high wind zone*	2.2m	2.6m	2.2m	2.6m	N/A	2.35m	2.35m
Maximum panel width	0.85m	0.85m	0.85m	0.85m	N/A	1.6m	1.6m

*based on 10mm glass

THERMACOLOUR™ PERFORMANCE

NZS4218:2004

Glass Type	IGU Clear	IGU Clear/Low E	IGU Clear/Low E + argon
Standard aluminium frame			
R Value (m ² 0 c/w)	0.26	0.31	0.33
Thermally broken frame			
R Value (m ² 0 c/w)	0.31	0.40	0.43



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TECHNICAL ADVICE

When seeking technical advice, we suggest you contact either our Regional Manager or Architectural Advisor. Our technical support team have specific skills and expertise to assist you to ensure your project is specified to the highest possible standard.

Phone: **+64 9 574 2900**

Email: **architecturalsupport@aslnz.co.nz**

Visit: **www.aslnz.co.nz**

YOUR LOCAL SUPPLIER OF THE THERMACOLOUR™ SUITE



The ThermAcolour™ Suite is designed by Aluminium Systems and manufactured by suppliers of Fairview Windows & Doors and Elite Windows & Doors



This brochure is indicative of the ThermAcolour™ suite of windows and doors that have been manufactured and installed into buildings throughout New Zealand. This brochure is a general guide only and should not be treated as a substitute for detailed technical advice in relation to individual circumstances. Aluminium Systems Ltd disclaims any liability for any loss or damage suffered from the use of such data. Please also check with your Fairview Window & Doors or Elite Window and Doors manufacturer as necessary.

The ThermAcolour™ suite is an Aluminium Systems product.

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