

Altus Window Systems Pacific Thermal™ 52 & 60mm System

Product Technical Statement: 102403



Thermally broken Windows & Doors improve insulation, comfort and virtually eliminate condensation.

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either an independent assessment or reference to an industry-based scheme



Altus Window Systems confirms that this minimum level of assurance has been met or exceeded by the following:

MBIE

[E2 External Moisture - AS1](#)

Technical Statement

Product Description

Ideal for larger, high quality, architecturally designed family homes in challenging locations. the Pacific Thermal Suite improves thermal insulation and virtually eliminates condensation.

The Pacific Thermal Suite can add an additional 25% of heat retention to what double glazing alone can provide. This is achieved through a thermally broken frame. Unlike standard aluminium joinery which is highly conductive the frame has a thermal barrier (polyamide strip system) which prevents heat or cold transfer, considerably reducing the chance of condensation, thus keeping the inside of your home warmer, drier and more comfortable.

Application:

- Residential
- Low rise
- Schools
- Apartments
- Low rise commercial / industrial

Scope of use

The Pacific Thermal system is a double-glazed, thermally broken aluminium window and door system suitable for residential, educational, and low rise commercial / industrial applications

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B2 Durability:** Performance B2.3.1(b)
- **Clause E2 External moisture:** Performance E2.3.2
- **Clause F2 Hazardous building materials:** Performance F2.3.1

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

- E2/AS1

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:

MBIE

[E2 External Moisture - AS1](#)

Product Criteria

Design requirements

- Sliding door panels up to 2.6m in height and maximum panel weights of 150kg.
- Pressure equalised
- The suite easily exceeds the very high wind zone standard

Thermal hinged / bifold doors

- Rated to 2500uwp min
- 60mm rebate in frame and sidelights
- 52mm rebate in panels



masterspec partner

Company Contact Details



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- Facing reveal frame
- 20mm upstand
- 19mm reveal
- Open In and open out frames
- Concealed drainage
- Box back mullions
- Double glazing up to 38mm panel, 46mm sidelight
- 24mm thermal strip – same as awning window but the strip is 8mm longer
- Top rolling bifold – 80Kg panel loads

Thermal Euroslider® / Eurostacker® doors

- 52mm rebate in frame and sidelights
- 52mm rebate in panels
- Facing reveal frame
- 20mm upstand
- 19mm reveal
- Outside slider only
- Concealed drainage
- Double glazing up to 38mm
- 16mm thermal strip

Installation requirements

Specific installation instructions for Altus Windows Systems' innovative products. These details focus on the fixing of the unit. For specific weathertightness details refer back to Part 2, the WGANZ / Altus document. There are 4 pages that represent cavity construction and the methods required for installation of Euroslider / stacker and bifolds into such. The claddings are shown as generic only. There are 8 pages that represent direct fix construction. 4 for thinner cladding types and 4 for thicker cladding types and the methods required for installation of Euroslider / stacker and bifolds into such. The claddings are shown as generic only, in thicker or thinner forms. [Download WGANZ Installation Instructions](#)

Maintenance requirements

Instructions on how to use, install and maintain Altus Window Systems joinery are available from Altus or any of its distributors. These instructions must be followed if aluminium joinery is to meet any quality or performance assurance. Regular cleaning is essential if the finish of anodised aluminium is to be preserved over a long period. Cleaning the anodised aluminium should be washed down with warm water and a suitable wetting agent or mild soap solution, in a similar manner to washing a car. [View Care and Maintenance Instructions](#)

Company Product Information

Environmental

We are the first aluminium extruder in NZ to have undertaken a Life Cycle Assessment. This is a fair, holistic assessment of raw material production, manufacture, distribution, use and disposal including all intervening transportation steps necessary or caused by the manufacture and distribution of Altus Windows' products and services. The Life Cycle Assessment data allows us to continuously optimise our environmental performance.

Quality Assurance



ISO 9001 (Quality Management)

Relationships



Member of New Zealand Green Building Council



New Zealand Made



Environmental Choice New Zealand



TELARC ISO14001



International Accreditation New Zealand NZS ISO/IEC 17025:2005



Date last validated: **11 February 2022**



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