

*For windows and doors provided by manufacturers of APL Window Solutions operating under the Altherm, First and Vantage brands in New Zealand. Provided in compliance with Building (Building Product Information Requirements), Regulations 2022.*

## Products

### Product names:

- APL Residential Series ThermalHEART® aluminium windows and doors
- APL Metro Series ThermalHEART® aluminium windows and doors
- APL Metro Series ThermalHEART® with Centrafix™ aluminium windows and doors
- APL Architectural Series ThermalHEART® aluminium windows and doors
- APL ThermalHEART® roof windows
- APL Klima Series® uPVC windows and doors.

### Version: V1

**Product line:** Thermally insulated windows and doors - ThermalHEART®, Centrafix™ and Klima Series®

**Product identifier:** see product names

**Product description:** Windows and doors

## Composition

### ThermalHEART® and Centrafix™ ranges are made from:

- Aluminium extrusions
- Polyamide thermal insulating profiles
- Hardware, which may be made from powder coated zinc, stainless steel or aluminium
- Insulated glass units (double or triple glazing) with Low-E coating and Argon gas
- Sealants
- Glazing gaskets
- Fixings (stainless steel screws)
- Aluminium entrance doors may contain Styrofoam fill
- Accessories may include extruded aluminium head flashings, sill trays or sill support bars, and plastic injection-moulded soakers.

### Klima Series® range windows and doors are made from:

- uPVC extrusions
- Coated metal screws
- Zinc coated ferrous metals
- Hardware, which may be made from powder coated zinc, stainless steel or aluminium
- Insulated glass units (double or triple glazing) with Low-E coating and Argon gas
- Sealants
- Glazing gaskets
- Fixings (stainless steel screws)
- Accessories may include extruded aluminium head flashings, sill trays or sill support bars, and plastic injection-moulded soakers
- Saveboard® panel. More information available at [saveboard.nz/](https://www.saveboard.nz/)

## Scope of Use

ThermalHEART®, Centrafix™ and Klima Series® windows and doors are mainstream product ranges that are suitable for a wide range of residential and commercial settings. They comply with New Zealand Building Code clause H1 Energy Efficiency (all climate zones) when used in conjunction with high performing Low-E double glazing. They include thermal insulators for maximum performance — polyamide inserts. Products include fixed, awning and casement windows, sliding, stacking and bifolding windows and doors, and hinged and French doors. Klima Series® includes open-in Tilt and Turn opening windows. These products need to be used in defined maximum sizes according to the wind exposure.

## Compliance with New Zealand Building Code and Relevant Standards

All APL window systems are tested for compliance in the company's IANZ-accredited test booth. Test reports are available.

The ranges listed above under 'Products' have been manufactured and tested to comply with applicable sections of the New Zealand Building Code and in conformity with the New Zealand Standards as listed below:

- Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. Products meet the requirements arising for loads from self-weight, wind and impact, i.e. B1.3.3 (a), (h) and (j)
- Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years, B2.3.1 (c) 5 years and B2.3.2
- Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. Window and door units conform and contribute to the wall cladding system meeting this requirement. See Paragraphs 14.1-14.4
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1, F2.3.3 (a) and (b)
- Clause F4 SAFETY FROM FALLING: Performance F4.3.1
- Clause G4 VENTILATION: Performance G4.3.1 and G4.3.3
- Clause G7 NATURAL LIGHT: Performance G7.3.1 and G7.3.2
- Clause H1 ENERGY EFFICIENCY: Performance H1.3.1 and H1.3.2E
- NZS 4211: Specification for performance of windows (incl. serviceability deflection, operation of opening sashes, air infiltration, water penetration, ultimate strength, torsional strength of sashes)
- NZS 4223.3: Glazing in buildings - Human impact safety requirements
- NZS 3604: Timber-framed buildings
- Powdercoat or paint systems meet Window & Glass Association NZ Powder Coating Quality Assurance System (PQAS)
- Powdercoatings formulated to meet AS 3715 and AAMA 2605
- Anodised surface finishes meet Window & Glass Association NZ Voluntary Specification SFA 3503-03:2005, Specification for Anodic Oxide Coatings on Wrought Aluminium for External Architectural Applications.

## Supporting Documentation

Additional documentation and technical information is available in support of the above statements at the links below:

Information on warranty provisions and installation can be found at these links:

\* ThermalHEART®, Centrafix™ and Klima Series® warranty provisions and maintenance guidelines:

[https://issuu.com/aplnz/docs/care\\_maintenance\\_vantage\\_\\_\\_agp](https://issuu.com/aplnz/docs/care_maintenance_vantage___agp)

\* ThermalHEART® and Klima Series® installation guidelines document <https://www.eboss.co.nz/assets/literature/165/32363/WGANZ-Guide-to-E2-AS1-Amd-8-V1.5-August-19.pdf>

\* Centrafix™ system and installation guidelines:

[https://issuu.com/aplnz/docs/centrafix\\_system\\_guide](https://issuu.com/aplnz/docs/centrafix_system_guide)

## Contact Details

**Manufacture location:** New Zealand

**Legal and trading name of manufacturer:** Architectural Profiles Ltd (also known as APL Window Solutions)

**Manufacturer address for service:** 19 Northpark Drive, Hamilton 3200

**Manufacturer website:** [aplnz.co.nz](http://aplnz.co.nz)

**Manufacturer email:** [apl.techinfo@aplnz.co.nz](mailto:apl.techinfo@aplnz.co.nz)

**Manufacturer phone number:** 07 849 2113

**Manufacturer NZBN:** 9429040093352

## Warnings and Bans

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?

Yes

No