

UNO Thermal Aluminium Windows for homes, Terrace housing, light commercial, schools projects

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



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



The following information has been provided by UNO demonstrating how this product complies with the [Building Product Information Requirements](#).

Technical Statement

Product Class

CLASS 2

Product Description

UNO Thermal Windows is a flat faced modern system. UNO provides a seamless solution from the design of the project, the manufacturing of the product in our 3000sqm facility, right through to delivery & where required installation on site - A beautifully simple solution!

Scope of use

UNO Thermal windows and doors system is an aluminium joinery range, designed to provide robust performance for homes, Terrace housing, light commercial, & school projects, which includes:

- Fixed, Awning, and Casement Open Out windows
- Slider and stacker doors and windows
- Open In and open out hinge doors and french doors

The system also makes it possible to combine multiple configurations in one window, like a sliding door with an awning window at the sidelight.

For a full range of windows configurations, please access:
<https://www.unowindows.co.nz/products/aluminium-windows#window-types>

The glazing used in this system can be either double or triple glazed units, with thermal spacers, argon gas, and the panes can be float, toughened, or laminated glass.

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 B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.3(a), B1.3.3(b), B1.3.3(h), B1.3.3(j), B1.3.4
 UNO Non-Thermal windows have been tested in accordance with NZS 4211:2008 and are manufactured to the structural requirements of the Wind Zone specified in the project requirements. UNO Non-Thermal windows are glazed to comply with NZS 4223.3:2016 where specified in the project requirements to allow for human impact.
- **Clause B2 Durability:** Performance B2.3.1(b), B2.3.1(c)
 UNO Non-Thermal Windows can be finished to provide a durability of at least 15 years in all Exposure Zones, except in microclimates where there is evidence of corrosion in adjacent structures caused by industrial or geothermal atmospheres. Durability is dependent on UNO Non-Thermal windows and doors being installed and maintained in accordance with UNO Windows and Doors care & maintenance requirements. IGUs comply with the requirements of NZS 4223.2: 2016. Timber reveals comply with NZS 3602:2003.
- **Clause C4 Movement to place of safety:** Performance C4.3, C4.5
 UNO Non-Thermal windows and doors can be used within an escape route where relevant considerations are specified in the project requirements.
- **Clause D1 Access routes:** Performance D1.3.1(b)
 UNO Non-Thermal windows and doors can be used within an access route where relevant considerations are specified in the project requirements.
- **Clause E2 External moisture:** Performance E2.3.2, E2.3.7
 UNO Non-Thermal windows and doors have been tested in accordance with NZS 4211:2008 and is fabricated to the water penetration requirements of the Wind Zone specified in the project requirements. UNO Non-Thermal Windows is suitable for installation in accordance with



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Company Contact Details



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Acceptable Solution E2/AS1 and can be supplied with sill support bars to suit the cladding selection. Installation details provided by other parties such as architects and cladding system suppliers may also be suitable.

- **Clause E3 Internal moisture:** Performance E3.3.1
UNO Non-Thermal windows and doors are constructed with a condensation collection channels to meet the requirements of E3/AS1:1.3 when manufactured with single glazing.
- **Clause F2 Hazardous building materials:** Performance F2.3.1, F2.3.3
UNO Non-Thermal windows and doors are safe when handled in accordance with installation instructions. UNO Non-Thermal is fabricated to comply with NZS 4223.3:2016 where specified in the project requirements
- **Clause F4 Safety from falling:** Performance F4.3.1
UNO Non-Thermal windows are fabricated with opening restrictors to comply with F4/AS1 Third Edition Amendment 2, Paragraph 2.0 Opening Windows, where relevant considerations are specified in the project requirements
- **Clause G4 Ventilation:** Performance G4.3.1
UNO Non-Thermal windows and doors can be fabricated with opening sashes of type and dimensions specified in the project requirements to help provide building ventilation. Ventilation design can use openings to comply with G4/AS1 Fourth Edition, Paragraph 1.2 Natural ventilation, or an alternative ventilation system design provided by others, such as a mechanical services engineer.
- **Clause G7 Natural light:** Performance G7.3.1, G7.3.2
UNO Non-Thermal windows and doors can be fabricated with the area and Visible Light Transmittance (VLT) of glazing specified by the project requirements to help provide natural light and awareness of the outside. Glazing design may comply with G7/AS1 Second Edition or G7/AS2 First Edition, or an alternative glazing design provided by other parties such as lighting engineers.
- **Clause H1 Energy efficiency :** Performance H1.3.1(a), H1.3.1(b), H1.3.2E
H1.3.1(a), and H1.3.2E: UNO Non-Thermal windows and doors are fabricated with single glazing or IGUs made from a range of possible glass, spacer, and infill gas types, to suit the window insulation (R-value) requirements of the project, to comply with H1/AS1, H1/AS2, or with H1/VM1.

Evidence

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

Relevant standards UNO Thermal Windows, and/or its component parts, are tested, fabricated and specified to comply with the following standards, as relevant to the project specifications: • NZS 4211:2008 Specification of windows • NZS 4223 Code of practice for glazing in buildings -Part 1:2008 Glass selection and glazing • NZS 4223 Code of practice for glazing in buildings -Part 2:2016 Insulating glass units • NZS 4223 Code of practice for glazing in buildings -Part 3:2016 Human impact safety requirements • NZS 4223 Code of practice for glazing in buildings -Part 4:2008 Dead, wind and snow loading • NZS 3602:2003 Timber and wood-based products for use in buildings • AS 3715:2002 Metal finishing –Thermoset powder coatings for architectural applications of aluminium and aluminium alloys.

Supporting Evidence

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

Product Criteria

Design requirements

This window and door system is designed to be used in, but not limited to, residential, offices, schools, light commercial, and industrial projects up to three storeys in height, on wind zones up to and including Extra High, for providing natural light, and ventilation. For any SED requirements, please contact UNO Windows. This system is suitable for use in parts of buildings where safety glass is required in accordance with F2.3.3 of the building code. This system has not been tested for use as fire windows and doors.

Installation requirements

- Ensure that the joinery is protected from dust, debris, and moisture if stored prior to installation.
- Inspect joinery thoroughly before beginning installation to ensure it is free from any defects and damage, including damage caused during transit, delivery, or storage.
- Check the dimensions and fit of each unit against the rough opening.
- Install the door in accordance with the consented or approved shop drawings and with "Guide to Window Installation" as described in E2/AS1 Amendment 8 available at www.wganz.org.nz
- Ensure door and window units are installed plumb, level, and in plane, within the tolerances set out in the MBIE Guide to materials, tolerances, and workmanship in residential construction. • Ensure sufficient fixings are used at the correct spacings
- Ensure all weather sealants and air seals are applied thoroughly to the opening as specified or detailed.

- Check & adjust operating hardware

Maintenance requirements

Simple regular maintenance is required to comply with the warranty requirements and will help to maintain the appearance of your windows and doors into the future. Exterior surfaces of UNO Thermal Windows should be washed at least once every three months, and more frequently for buildings in harsh environments (eg: close to beaches, coastlines, and harsh Industrial or geothermal environments), and for units that are not completely exposed to regular rain washing, such as those which are partly or fully sheltered by eaves, porches, adjacent buildings, trees, etc. The frequency of washing in these harsh environments should be determined by the degree of salt or other contaminant build up on the windows and doors but should be at least once a month. Washing should include the rinsing of all window and door cavities to remove contaminants and avoid corrosion.

Refer to UNO Care & Maintenance Guide for all details

Warrantees

UNO Thermal Windows system by UNO Windows and Doors has a product warranty, under normal conditions of use, against failure of materials or workmanship for a period of 2 years, provided care and maintenance guidelines have been followed. The surface finish of the aluminium extrusion, dependent on the actual finish selected, and hardware are covered by separate supplier warranties. Plated hardware finishes are excluded from the warranty. Please note, this warranty is subject to the product being correctly installed as outlined in the NZBC E2/AS1: External Moisture or to an approved alternative solution, and in the correct wind zone. To validate this warranty please register within 30 days of receiving your final project invoice by emailing office@unowindows.co.nz. stating purchaser name, invoice No., and project address. Warranty queries should be directed to UNO Windows. Please contact UNO Windows for a copy of our Terms and Conditions

Company Product Information

Environmental

<https://www.unowindows.co.nz/the-uno-sustainability-journey>

Videos

[Stackhouse & Firth Construction Case Study](#)

[The Makers Ltd Case Study](#)

Building Product Information Requirements

Manufacturer

Legal Trading Name:

Uno Windows & Doors Limited

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Company Website:

www.unowindows.co.nz/

Contact Number/s:

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Product Identifier

UNO THERMAL WINDOWS & DOORS

Warnings

This product has no warnings associated with it.



Date last validated: **06 June 2024**



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