

VELUX TWR rigid sun tunnel 250mm & 350mm

Product Technical Statement: 102028



Tubular skylight with integrated flashing. Max tube length 6m. Flat glass roof unit

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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



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

CodeMark

[CM - 1010](#)

BRANZ Appraisal

[970](#)

VELUX

[Technical Data](#)



Technical Statement

Product Description

For roof-pitches 0-60 degrees. 350mm diameter polished aluminium foil tube with 99% reflectivity of light. Recommended length between 0.9 and 6.0 metres. Flat polyurethane roof unit with toughened glass and integrated flashing system.

Double layered diffuser unit

Accessories: ZTV ventilation kit (excludes fan-unit), ZTL LED light.

Scope of use

For roof pitches of 15-60 degrees. Not suited for metal tray or membrane roofs or custom-made flashings

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, B2.3.2
Product is CodeMark certified. (BRANZ CM-1010)
- **Clause E2 External moisture:** Performance E2.3.1, E2.3.2, E2.3.7
Product is CodeMark certified. (BRANZ CM-1010)
- **Clause G7 Natural light:** Performance G7.3.1, G7.3.2
Product is CodeMark certified. (BRANZ CM-1010)
- **Clause H1 Energy efficiency :** Performance H1.3.1, H1.3.2E, H1.3.3
Product is CodeMark certified. (BRANZ CM-1010)

Notes

B2/AS1 Durability - AS 4285 - VELUX Skylights satisfy the durability requirements specified for Non-structural Roof Cladding elements and External Window/Door Joinery. VELUX Skylights have passed tests for weather tightness, concentrated load, non-cyclonic and cyclonic wind pressures according to Australian Skylight Standard AS4285 test methods.

E2 External Moisture - AS 4285 - VELUX Skylights have passed tests for weather tightness, concentrated load, non-cyclonic and cyclonic wind pressures according to Australian Skylight Standard AS4285 test methods.

F2 Hazardous Building Materials - NZS 4233: Part 4, AS/NZS 4666 - VELUX Skylights comply with requirements for sloped Insulating Glass Units.

G7 Natural Light - VELUX Skylights can be used to meet the G7 Natural Light requirements.

H1 Energy Efficiency - NZS 4218 - VELUX Skylights exceed the minimum R-value requirements for skylights in all climate zones. Evidence:

Evidence

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

- B2/AS1 Durability - AS 4285 - VELUX Skylights satisfy the durability requirements specified for Non-structural Roof Cladding elements and External Window/Door Joinery. VELUX Skylights have passed

masterspec partner

Company Contact Details



Skylights

| | |
|-------------------|---|
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tests for weather tightness, concentrated load, non-cyclonic and cyclonic wind pressures according to Australian Skylight Standard AS4285 test methods.

- E2 External Moisture - AS 4285 - VELUX Skylights have passed tests for weather tightness, concentrated load, non-cyclonic and cyclonic wind pressures according to Australian Skylight Standard AS4285 test methods.
- F2 Hazardous Building Materials - NZS 4233: Part 4, AS/NZS 4666 - VELUX Skylights comply with requirements for sloped Insulating Glass Units.
- G4/AS1 Natural Ventilation (1.2, 2.1) - VELUX Opening Skylights can be used to meet the G4 Natural Ventilation requirements.
- G7 Natural Light - VELUX Skylights can be used to meet the G7 Natural Light requirements.
- H1 Energy Efficiency - NZS 4218 - VELUX Skylights exceed the minimum R-value requirements for skylights in all climate zones.
- Evidence: 30+ years of historical use in New Zealand

Supporting Evidence

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



CodeMark
[CM - 1010](#)



BRANZ Appraisal
[970](#)

VELUX
[Technical Data](#)

Use in Service History

15+ years in New Zealand

Product Criteria

Design requirements

TWR Sun Tunnels are modular fixed, non-venting tubular skylights intended for roof pitches between 15 and 60 degrees. They are available in 350mm diameter 99% reflective polished aluminium tubes, which can be extended up to 6 metres in length. The polyurethane roof unit has 4mm thick toughened glass and an integrated flashing suitable for corrugated and trapezoid profile metal roofing, metal and concrete/clay tiles.

TWF Sun Tunnels do not have a fire rating.

Installation requirements

Install TWF Sun Tunnel in accordance with instructions supplied with the product and local building code requirements. [453834-2020-09-TWR_TLR.indd \(azureedge.net\)](#). Align Sun Tunnel with the trim opening, free of warp or twist, maintaining dimensional tolerances. Attach skylight to the trim-out frame with screws furnished by manufacturer. Coordinate attachment and seal of perimeter air and vapor barrier material. Tape all joints and connections to ensure there no gaps tape using 'silver' tape provided.

Maintenance requirements

For maintenance requirements refer to <http://https://www.velux.co.nz/service-and-warranty/maintenance>. Exterior surfaces must be cleaned with clean water at least once a year, subject to the environmental conditions present.

Warrantees

For warrantees refer to <http://https://www.velux.co.nz/service-and-warranty/maintenance>.



Date last validated: **03 November 2023**



Date last updated: **03 November 2023**

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