

4554VT VELUX TUBULAR SKYLIGHTS

1. GENERAL

This section relates to the manufacture, supply, and installation of VELUX Tubular Skylights to provide natural light and ventilation to the interior.

It includes;

- Rigid Sun Tunnel
- Low Pitch Rigid Sun Tunnel
- Flexible Sun Tunnel
- flashing

1.1 RELATED WORK

Refer to ~ for ~

Documents

1.2 DOCUMENTS

Refer to the general section 1233 REFERENCED DOCUMENTS. The following documents are specifically referred to in this section:

NZBC E2/AS1	External moisture
NZBC G9/AS1	Electricity
AS/NZS 3000	Electrical installations (known as the Australian/New Zealand Wiring Rules)
NZS 3604	Timber-framed buildings
NZS 4223.4	Code of practice for glazing in buildings - Wind, dead, snow and live actions

1.3 MANUFACTURER/SUPPLIER DOCUMENTS

Manufacturer's and supplier's documents relating to this part of the work:
Sales Brochure 2017
Installation instructions for TWR/TLR & TWF/TLF & TCR Sun Tunnel

Manufacturer/supplier contact details

Company: VELUX New Zealand Limited
Web: www.velux.co.nz
Email: info@velux.co.nz
Telephone: 0800 650 445

Warranties

1.4 WARRANTY - MANUFACTURER/SUPPLIER

Provide a material manufacturer/supplier warranty:
10 years: For VELUX Tubular Skylights

- Provide this warranty on the VELUX standard form.
- Commence the warranty from the date of installation.

Refer to the general section 1237 WARRANTIES for additional requirements.

1.5 WARRANTY - INSTALLER/APPLICATOR

Provide an installer/applicator warranty:
2 years: For installation of VELUX Tubular Skylights.

- Provide this warranty on the installer/applicator standard form.
- Commence the warranty from the date of installation.

Refer to the general section 1237 WARRANTIES for additional requirements.

Requirements

- 1.6 **QUALIFICATIONS**
Installers to be to be experienced, competent trades people familiar with the materials and techniques specified.
- 1.7 **NO SUBSTITUTIONS**
Substitutions are not permitted to any of the specified VELUX systems, components and associated products listed in this section.

Performance

- 1.8 **PERFORMANCE, WIND, DEAD, SNOW, AND LIVE ACTIONS**
The design wind pressures and snow loads to [NZS 3604](#). Live loads and glazing design, for glass or equivalent plastics, to [NZS 4223.4](#).

2. PRODUCTS

Tubular skylights

- 2.1 **RIGID SUN TUNNEL**
Rigid Sun Tunnel, a rigid tubular skylight consisting of a frosted acrylic double glazed diffuser, complete with white ceiling trim ring; includes integrated flashing with 4mm toughened glass and 'self cleaning' coating on the outside for roof pitches between 15° to 60°. Refer to SELECTIONS for type and accessories.
- 2.2 **LOW PITCH RIGID SUN TUNNEL**
Rigid Sun Tunnel, a rigid tubular skylight consisting of a frosted acrylic double glazed diffuser, complete with white ceiling trim ring; acrylic dome; for roof pitches between 0° to 60°. Refer to SELECTIONS for type and accessories.
- 2.3 **FLEXIBLE SUN TUNNEL**
Flexible Sun Tunnel, a flexible tubular skylight consisting of a frosted acrylic double glazed diffuser, complete with white ceiling trim ring; includes integrated flashing with 4mm toughened glass and 'self cleaning' coating on the outside, for roof pitches between 15° to 60°. Refer to SELECTIONS for type and accessories.

Components

- 2.4 **FLASHING ELEMENTS**
VELUX Sun Tunnel TWR/TLR/TWF/TLF are delivered with a proprietary flashing. VELUX Sun Tunnel Low Pitch TCR require roofer made flashing.

3. EXECUTION

Conditions

- 3.1 **DELIVERY, STORAGE AND HANDLING**
Avoid distortion of elements during transit, handling and storage. Deliver in original containers, dry, undamaged with seals and labels intact. Prevent pre-finished surfaces from rubbing together. Prevent contact with mud, plaster and cement. Do not deliver to site any elements which cannot be immediately unloaded into suitable conditions of storage.
- 3.2 **PRE-INSTALLATION REQUIREMENTS**
Confirm framed openings on site for dimensions, to suit the Tubular Skylight. Unit dimensions are overall finished frame dimensions. For framing purposes refer to supplied installation instructions for rough opening.
- 3.3 **EXECUTION GENERALLY**
Check that the preparation of the opening is to [NZBC E2/AS1](#), 8.4.17 Roof penetrations.

- 3.4 **RETAIN PROTECTIVE COVERINGS**
Retain protective coverings and coatings in place during fixing wherever possible.
Provide additional protection to prevent marking of surfaces visible in the completed work.
Remove protection on completion.

Installation

- 3.5 **GENERALLY**
Check that the trimmed openings are formed and constructed to suit the required Tubular Skylight. Do not proceed until roof and structural openings are properly formed.

- 3.6 **DAYLIGHTING SYSTEM**
Install and fix the Tubular Skylight strictly in accordance with the manufacturer's requirements and installation instructions, to make the installation completely weatherproof and the tube light tight. Repack any thermal insulation around openings where disturbed by the installation to maintain continuity of thermal barriers. Install as detailed by the manufacturer to make the installation completely weatherproof.

Completion

- 3.7 **CLEAN FRAMES AND GLAZING**
On completion clean down both sides of VELUX tubular skylight frame/s, using the methods required by the manufacturer. Remove any manufacturer's stickers and clean diffuser lens. Ensure all installed units are adequately protected from damage and adverse weather during construction.

4. **SELECTIONS**
For further details on selections go to www.velux.co.nz.
Substitutions are not permitted to the following, unless stated otherwise.

Tubular skylights

- 4.1 **RIGID SUN TUNNEL - 350MM**
Location: ~
Brand: VELUX
Type: ~ Rigid Sun Tunnel
Roof type/pitch: ~, ~
Effective length: 1700mm standard to 6000mm with use of ZTR extension pieces
Extension pieces: ~
Internal diameter: 350mm
External size: 475mm x 475mm
- 4.2 **LOW PITCH RIGID SUN TUNNEL - 350MM**
Location: ~
Brand: VELUX
Type: ~ Rigid Sun Tunnel
Roof type/pitch: ~, ~
Effective length: 1200mm standard to 6000mm with use of ZTR extension pieces
Extension pieces: ~
Internal diameter: 350mm
External size: 530mm x 530mm
- 4.3 **RIGID SUN TUNNEL 250MM**
Location: ~
Brand: VELUX
Type: TWR Rigid Sun Tunnel
Roof type/pitch: ~, ~
Effective length: 1700mm standard to 6000mm with use of ZTR extension pieces
Extension pieces: ZTR 0K10 0062 – 560mm effective extension
Internal diameter: 250mm
External size: 374mm x 374mm

4.4 FLEXIBLE SUN TUNNEL 350MM
Location: ~
Brand: VELUX
Type: Flexible Sun Tunnel - ~
Roof type/pitch: ~, ~
Effective length: 1500mm
Internal diameter: 350mm
External size: 475mm x 475mm

Components

4.5 FLASHINGS
Brand/type: VELUX proprietary integrated flashing supplied with VELUX Sun Tunnel tubular skylight TWR/TLR/TWF/TLF

Roofer Made Custom Flashing required for curb mounted VELUX Sun Tunnel tubular skylight TCR