

VELUX Sun Tunnels



(TWR pictured)



Time-Saving design

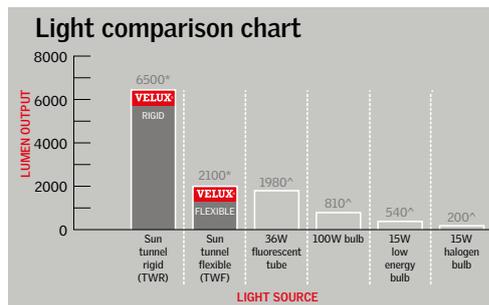
The VELUX Sun Tunnel has been designed with our Flexi Loc™ system that makes installation faster and easier than ever before.

The VELUX rigid (TWR), flexible (TWF) and flat-roof (TCR) Sun Tunnels provide installation flexibility. Rigid tunnels deliver a straight shaft of light directly to the room below. Flexible tunnels can be used when obstructions in the roof cavity prevent the use of rigid Sun Tunnels.

Versatile, tubular-shaft

VELUX Sun Tunnels are ideal for flooding natural light into small areas; such as corridors, hallways, walk-in wardrobes or spaces where it's not possible to install traditional skylights. The unit comes with an outer skylight that sits flat on the roof. Internally, a discrete white ceiling-mounted diffuser with 'EdgeGlow' technology spreads light evenly over an area of up to 9m².

The VELUX low-pitched rigid Sun Tunnel (TCR) can be installed on flat roofs with a pitch of 0°–60°. Custom flashing made by roofer is required. (Not supplied by VELUX).



Light transmittance of VELUX Sun Tunnels depends on parameters such as sky conditions (cloudy/sunny), direction of sunlight, orientation and length of Sun Tunnel. VELUX Sun Tunnels in this chart have been tested with a 1 metre shaft, on a 15° roof pitch in summer, at noon on a sunny day using a photometer. (TWR rigid tunnel emits 440 lumens when measured on a cloudy winter's day).

^ The graph features 60% of total lumen value for these light sources – allowing for light absorption when mounted in a lamp or fixture, (Lumen values represent an average for Australian manufactured products).

*Data source: VELUX Daylight laboratory – Greenwood, South Carolina, USA.

CodeMark® is a voluntary scheme owned by the Ministry of Business, Innovation & Employment that provides an easily understood and robust way to show a building product, design or method meets the requirements of the New Zealand Building Code. CodeMark is unchallengeable and has legal status equivalent to that of an Acceptable Solution or Verification Method.

CodeMark
CMNZ1010



BRANZ Appraised
Appraisal No. 970

WORLD-CLASS
QUALITY



LOAD TESTED
(NZBC Clause B1)



DURABILITY
(NZBC Clause B2)
Exceeds requirements for
Exposure Zone D (NZ3604).



WEATHERTIGHTNESS
(NZBC Clause E2)



SAFETY GLAZING
(NZBC Clause F2)



ENERGY EFFICIENCY
(NZBC Clause H1)



VENTILATION
(NZBC Clause G4)



NATURAL LIGHT
(NZBC Clause G7)

NB: CodeMark certification and BRANZ appraisal scope does not cover installations over 60°.

TWR

Rigid Tunnel



- Minimum distance from ceiling to roof 0.9m
- Standard length 1.7m
- Extendable to 6m using ZTR extensions

TWF

Flexible Tunnel



- Minimum distance from ceiling to roof 0.4m
- Standard length 1.5m
- Not extendable

TCR

Rigid Tunnel (Flat/low-pitch roof)



- Minimum distance from ceiling to roof 0.9m
- Standard length 1.15m
- Extendable to 6m using ZTR extensions

Technical information	TWR RIGID	TWF FLEXIBLE	TCR LOW PITCH
Rooftop glazing – 4mm toughened glass	✓	✓	-
Integrated flashing & apron for tiled or profiled metal roofs	✓	✓	-
Installation pitch 15° – 60°	✓	✓	-
Installation pitch 0° – 15°	-	-	✓
Shaft or tunnel diameter 350mm	✓	✓	✓
Standard tunnel length	1.7m	1.5m	1.15m
Extension kit ZTR OK14 (1180mm in length). Max overall tunnel length 6.0m	✓	-	✓
Stay clean* coating reduces cleaning frequency	✓	✓	-
R-Value (BRANZ Verified Horizontal R-Value) *	0.330	0.330	0.330

* Listed thermal values have been verified by BRANZ and can be used for all climate zones to show compliance with NZBC H1/AS1 using Alternative Solution VELUX Schedule Method (CodeMark), or the Calculation Method.

Sun Tunnel packages come complete with:

- Choice of highly reflective rigid or flexible tunnel (350mm diameter, lengths vary).
- Dual-layered ceiling diffuser – spreads light over an area of up to 9m².
- Interior diffuser design with 'EdgeGlow,' a clear ring on the diffuser's edge.
- Outer polyurethane cappings with integrated flashings for tiled/profiled metal roofs (TWR/TWF only).
- 'Stay clean' coating on glass exterior reduces cleaning frequency (TWR/TWF only).
- 4mm toughened glass (TWR/TWF only).
- TCR requires custom flashing made by roofer. (Not supplied by VELUX).



Quicker assembly time

VELUX Flexi Loc™ system reduces tunnel assembly time significantly. The Rigid light tunnel is easy to work with; gives room for movement and adjustment while providing installation stability by locking the pieces into place. (TWR/TCR only).



No need to enter the attic or loft

The roof module with removable sash ensures quick and easy installation from the outside. Drop the light tunnel into place from the roof. There's no need to enter the attic or loft; the light tube is easy to install in tight spaces where attic access is not possible



Easy to install and clean

The VELUX Sun Tunnel is easy to install thanks to the threaded pane. When you're finished, simply screw the diffused pane into place. And, as an added bonus, it's easy to clean as it can be unscrewed and cleaned as needed.

Construction

TWR/TWF: Easy to install, the skylight has an integrated polyurethane frame and flashing, together with malleable aluminium apron, contours to the roofing profile.

TCR: Acrylic dome with aluminium frame.

The TWR/TCR utilises two 45° elbows for most direct 'line-of-sight' applications. Standard shaft lengths can be extended with the addition of the rigid extension kit ZTR OK14 (1180mm long). The flexible TWF can be used to circumvent obstructions in the roof cavity.