



Certificate of Conformity

Certification Body:

Certificate number: CM 30091 Rev 5



Global-Mark Pty Ltd,
Suite 4.07
32 Delhi Road
North Ryde NSW 2113
Australia
Tel: +61 2 9886 0222
www.Global-Mark.com.au

THIS IS TO CERTIFY THAT

Velux Sun Tunnels TWR & TWF

Type and/or use of product:

Velux Sun Tunnels are used to bring natural light into attics or loft rooms where daylight is required.
Velux Sun Tunnels are designed for use with all building types, subject to limitations detailed within this certificate and the technical literature.

Description of product:

Velux TWR Sun Tunnels provide daylight by using a rigid tube from the roof surface to the internal ceiling lining.
Velux TWF Sun Tunnels provide daylight by using a flexible tube from the roof surface to the internal ceiling lining.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2022

Certificate Holder:

Velux Australia Pty Ltd
78 Henderson Road
Alexandria NSW 2015
Australia
Tel: 1300 859 856
www.velux.com.au

| | Volume One | | Volume Two and Housing Provisions (HP) | |
|--|---------------------|---|--|---|
| Performance Requirement(s) | F3P1 | Weatherproofing | H2P2 | Weatherproofing |
| Deemed-to-Satisfy Provision(s): | B1D4 (h)(ii) | Determination of structural resistance of materials and forms of construction | H1D8 (2)(b)(iv) | Glazing |
| | | | HP 2.2.4 (n) | Determination of structural resistance of materials and forms of construction |
| | | | HP 8.3.1 (d) | Glass |
| | F6D3 | Methods and extent of natural light | H4D6 | Light |
| | F6D4 | Natural light borrowed from adjoining room | HP 10.5.1 | Natural light |

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

The purpose of Global-Mark **construction site audits** is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions.

In placing the **CodeMark mark** on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the **expertise of external bodies** (laboratories, and technical experts).

Herve Michoux
Global-Mark Managing Director

Peter Gardner
Unrestricted Building Certifier

Date of issue: 06/03/2024

Date of expiry: 06/03/2027



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| | G5D3 | Construction in bushfire prone areas – residential buildings | H7D4 | Construction in bushfire prone areas |
| | G5D4 | Construction in bushfire prone areas – selected Class 9 buildings | | |
| State or territory variation(s): | NT B1D4 | Determination of structural resistance of materials | | |
| | QLD B1D4 | Determination of structural resistance of materials | | |
| | WA B1D4 | Determination of structural resistance of materials | | |
| | NSW G5D3 | Construction in bushfire prone areas | NSW H7D4 (2)(a) | Construction in bushfire prone areas |
| | NSW G5D4 | Construction in bushfire prone areas | | |
| | VIC G5D4 | Construction in bushfire prone areas | | |
| SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B | | | | |
| Limitations and conditions: | | | | Building classification/s: |
| Volume 1 – Schedule 3 & Volume 2 – Schedule 3 Velux Sun Tunnels TWR & TWF are to be installed at an angle greater than 15 degrees measured from the horizontal plane. | | | | Class 1, 2, 3, 4, 5, 6, 7, 8, 9 & 10 |
| Volume 1 – B1D4 (h) (ii) & Volume 2 – H1D8 & Housing Provisions – 8.3.1 (d) Velux Sun Tunnels TWR & TWF may be installed: <ul style="list-style-type: none"> a) where project imposed loads on the building do not exceed +1.1 kN, and b) where project snow loads on the building do not exceed +2.8 kPa, and c) in areas only with non-cyclonic wind zones with Ultimate Limit State (ULS) wind pressures no greater than -7.0 kPa & +5.0 kPa. Structures supporting Velux Sun Tunnels must be designed and constructed to accommodate all loads imposed onto the Sun Tunnels and surrounds. | | | | Class 1, 2, 3, 4, 5, 6, 7, 8, 9 & 10 |
| Volume 2 – H1D8 & Housing Provisions 8.3.2 Minimum thickness of glazing as nominated within design tables included within Part 8.3.2 of HP, and/or glass design to adhere to AS 1288. | | | | Class 1 & 10 |
| Volume 1 – S5C16 If a roof is required to have an FRL or its covering is required to be non-combustible, Sun Tunnels or the like installed in that roof must— <ul style="list-style-type: none"> a) have an aggregate area of not more than 20% of the roof surface; and b) be not less than 3 m from— <ul style="list-style-type: none"> i. any boundary of the allotment other than the boundary with a road or public place; and ii. any part of the building which projects above the roof unless that part has the FRL required of a fire wall and any openings in that part of the wall for 6 m vertically above the Sun Tunnel or the like are protected in accordance with C4D5; and iii. any Sun Tunnel or the like in an adjoining sole-occupancy unit if the walls bounding the unit are required to have an FRL; and iv. any Sun Tunnel or the like in an adjoining fire-separated section of the building; and | | | | Class 2, 3, 4, 5, 6, 7, 8 & 9 |

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| <p>c) if a ceiling with a resistance to the incipient spread of fire is required, the Sun Tunnel shall be installed in a way that will maintain the level of protection provided by the ceiling to the roof space.</p> | |
| <p>Housing Provisions – 9.2.10 <i>Combustible</i> roof lights, skylights or the like installed in a roof or part of a roof <i>required</i> to have a <i>non-combustible</i> covering must—</p> <p>a) have an aggregate area not more than 20% of the roof or part of the roof; and b) be not less than</p> <p>i. 900 mm from</p> <p>A. the allotment boundary other than the boundary adjoining a road alignment or other public space; and B. the vertical projection of a separating wall extending to the underside of the roof covering; and</p> <p>ii. 1.8 m from any roof light or the like in another building on the allotment other than an appurtenant building or a detached part of the same building.</p> | <p>Class 1 & 10</p> |
| <p>Volume 1 – D3D13 Sun Tunnels shall not be placed within 3 metres of an emergency access path of travel that may cross the same roof area.</p> | <p>Class 2, 3, 4, 5, 6, 7, 8 & 9</p> |
| <p>Volume 1 – F6D3 & F6D4 & Volume 2 – H4D6 & Housing Provisions – 10.5.1 Combined window, Sun Tunnel and other opening areas for Natural Light shall achieve a minimum percentage of floor area for the room. When solely relying upon Sun Tunnels, at least 3% of room floor area is required for Sun Tunnels, alternately 10% of room floor area for external windows, or a proportional combination of the two.</p> | <p>Class 1, 2, 3, 4, 5, 6, 7, 8, 9 & 10</p> |
| <p>Volume 1 – G5D3 & Volume 2 – H7D4 (2)(a) In designated Bushfire prone areas, when the building is constructed in accordance with AS3959:2018 including Amendments 1 & 2, Velux Sun Tunnels are permitted for use in buildings subject to Bushfire Attack Level up to & including BAL–29.</p> | <p>Class 1, 2, 3 and Class 10a buildings or decks immediately adjacent or connected to Class 1, 2 or 3 buildings</p> |
| <p>Volume 1 – G5D4 In designated bushfire prone areas when the building is constructed in accordance with Specification 43, Velux Sun Tunnels are permitted for use only in buildings subject to Bushfire Attack Level not exceeding BAL–12.5. Construction in BAL–19, BAL–29, BAL–40 and BAL–FZ fall outside the scope of application of the clause.</p> | <p>Class 9a, 9b, 9c and Class 10a buildings or decks immediately adjacent or connected to Class 9a, 9b or 9c buildings</p> |
| <p>Volume 1 – NSW G5D3 & Volume 2 – NSW H7D4 (2)(a) In designated bushfire prone areas subject to Bushfire Attack Levels BAL-LOW, BAL-12.5, BAL-19 and BAL-29, determined in accordance with the Planning for Bush Fire Protection 2019 including addendum November 2022, when the building is constructed in accordance with AS3959: 2018 including Amendments 1 & 2 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, Velux Sun Tunnels are permitted for use. The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of the Planning for Bush Fire Protection 2019 including addendum November 2022. Site specific conditions arising from:</p> <ul style="list-style-type: none"> - the development consent following consultation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning and Assessment Act 1979 if required, or | <p>Class 1, 2, 3, Class 4 part of a building & 10a building or deck immediately adjacent or connected to building of Class 1, 2, 3 or Class 4 part of a building</p> |

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| | <p>- the development consent with a bushfire safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of integrated development</p> <p>have not been considered for the compliance assessment.</p> <p>The Planning for Bush Fire Protection 2019 including addendum November 2022 requires a performance-based application in bushfire prone areas subject to Bushfire Attack BAL-40 & BAL-FZ.</p> <p>Construction in NSW's bushfire prone areas subject to Bushfire Attack BAL-40 & BAL-FZ have not been considered in this assessment.</p> | |
| | <p>Volume 1 – NSW G5D4</p> <p>In designated bushfire prone areas subject to Bushfire Attack Levels not exceeding BAL-12.5, determined in accordance with the Planning for Bush Fire Protection 2019 including addendum November 2022, Velux Sun Tunnels are permitted for use when the building is constructed in accordance with:</p> <ul style="list-style-type: none"> a) For class 9 buildings, Specification 43 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, or b) For class 10a buildings or decks, AS3959: 2018 including Amendments 1 & 2 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022 and S43C13, <p>The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of Planning for Bush Fire Protection 2019 including addendum November 2022.</p> <p>Site specific conditions arising from the development consent with a bushfire safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of integrated development are site specific and have not been considered for the compliance assessment.</p> <p>Construction in BAL-19, BAL-29, BAL-40 and BAL-FZ fall outside the scope of application of the clause.</p> | <p>Class 9 building that is a special fire protection purpose; and a Class 10a building or deck immediately adjacent or connected to such building</p> |
| | <p>Volume 1 – VIC G5D4</p> <p>In designated bushfire prone areas when the building is constructed in accordance with Specification 43, Velux Sun Tunnels are permitted for use only in buildings subject to Bushfire Attack Level not exceeding BAL-12.5.</p> <p>Construction in BAL-19, BAL-29, BAL-40 and BAL-FZ fall outside the scope of application of the clause.</p> | <p>Class 4 part of a building, Class 9a, 9b, 9c and Class 10a buildings or decks immediately adjacent or connected to Class 4 parts, Class 9a, 9b or 9c buildings</p> |
| | <p>General</p> <p>Velux Sun Tunnels with approved flashing are to be specified in accordance with the document(s) listed in Appendix A3 of this certificate by a suitably qualified building professional.</p> | <p>Class 1, 2, 3, 4, 5, 6, 7, 8, 9 & 10</p> |
| | <p>General</p> <p>Velux Sun Tunnels with approved flashing are to be installed in accordance with the document(s) listed in Appendix A5 of this certificate by a suitably qualified building professional.</p> | <p>Class 1, 2, 3, 4, 5, 6, 7, 8, 9 & 10</p> |

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

See page 1 of this certificate: Type and/or use of product

A2 Description of product

See page 1 of this certificate: Description of product, and;

- Velux Sun Tunnels are to be installed at an angle greater than 15 degrees measured from the horizontal plane.
- Velux Sun Tunnels are available in a single size, as described in Items 1, 2 & 3 as listed in Appendix A3.

A3 Product specification

Refer to items 1, 2, 3, 4 & 5 listed in Appendix B2:

1. Velux Models Summary – 2023
2. Velux Aust Product Brochure – September 2023
3. Aust Sun Tunnel Product Sheet – March 2022
4. VELUX TWR – Installation instructions (2015)
5. VELUX TWF – Installation instructions (2015)

A4 Manufacturer and manufacturing plant(s)

VELUX Australia Pty Ltd
78 Henderson Road
Alexandria NSW 2015
Australia

Partizánske Building Components-SK s.r.o.
Malobelická 1/215
958 04 Partizánske
SLOVAKIA

A5 Installation requirements

Refer to Velux product installation instructions:

1. VELUX TWR – Installation instructions – TWR_tlr_v2_453834 2015 01
2. VELUX TWF – Installation instructions – TWF_tlf_v2_453842 2015 01

A6 Other relevant technical data

Any referenced documents within the technical literature identified in Appendices A3 and A5.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with BCA 2022:

| Code Clause | Assessment Method(s) | Evidence of suitability | Evidence reference in B2 |
|--------------------------------|-----------------------------|--|--------------------------|
| BCA Volume One F3P1 | A2G2 (2) (a), (b)(ii) & (c) | A5G3 (1)(d) & (e) – Test Report & Expert Judgement | Items 3, 4, 5, 7, 8 & 9 |
| BCA Volume Two H2P2 | A2G2 (2) (a), (b)(ii) & (c) | A5G3 (1)(d) & (e) – Test Report & Expert Judgement | Items 3, 4, 5, 7, 8 & 9 |
| BCA Volume One B1D4 (h)(ii) | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 7 & 8 |
| BCA Volume One NT B1D4 | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 7 & 8 |
| BCA Volume One QLD B1D4 | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 7 & 8 |
| BCA Volume One WA B1D4 | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 7 & 8 |
| BCA Volume Two H1D8 (2)(b)(iv) | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 7 & 8 |
| Housing Provisions 2.2.4 (n) | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 7 & 8 |
| Housing Provisions 8.3.1 (d) | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 7 & 8 |
| BCA Volume One F6D3 | A2G3 (2) (a) & (b) | A5G3 (1)(f) – Other Documentary Evidence | Items 1, 2, 3, 4 & 5 |
| BCA Volume One F6D4 | A2G3 (2) (a) & (b) | A5G3 (1)(f) – Other Documentary Evidence | Items 1, 2, 3, 4 & 5 |
| BCA Volume Two H4D6 | A2G3 (2) (a) & (b) | A5G3 (1)(f) – Other Documentary Evidence | Items 1, 2, 3, 4 & 5 |
| Housing Provisions 10.5.1 | A2G3 (2) (a) & (b) | A5G3 (1)(f) – Other Documentary Evidence | Items 1, 2, 3, 4 & 5 |
| BCA Volume One G5D3 | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 10 & 11 |
| BCA Volume One NSW G5D3 | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 10 & 11 |
| BCA Volume Two H7D4 | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 10 & 11 |
| BCA Volume Two NSW H7D4 | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 10 & 11 |
| BCA Volume One G5D4 | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 10 & 11 |
| BCA Volume One NSW G5D4 | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 10 & 11 |
| BCA Volume One VIC G5D4 | A2G3 (2) (a) & (b) | A5G3 (1)(d) – Test Report | Items 3, 6, 10 & 11 |

B2 Reports

The following reports have been used as evidence to determine compliance with BCA 2022:

| Ref | Author | Reference | Date | Description | NATA Registration |
|-----|-------------------------------|-------------------------------------|--------------|---|-------------------|
| 1. | Velux Australia Pty Ltd | Velux Models Summary - 2023 | April 2023 | List of Velux Skylight, Roof Window & Sun Tube Product Range | - |
| 2. | Velux Australia Pty Ltd | Velux Aus Sep-2023 brochure | Sept 2023 | Brochure for VELUX range of Roof Windows, Skylights and Sun Tunnels | - |
| 3. | Velux Australia Pty Ltd | Aust Sun Tunnel Product Sheet 2022 | March 2022 | Product data sheet for TWR & TWF Sun Tunnels | - |
| 4. | Velux Australia Pty Ltd | TWR Install_tlr_v2_453834 2015 01 | Jan 2015 | Product installation instructions for TWR Sun Tunnels | - |
| 5. | Velux Australia Pty Ltd | TWF Install_tlf_v2_453842 2015 01 | Jan 2015 | Product installation instructions for TWF Sun Tunnels | - |
| 6. | Velux Australia Pty Ltd | DoP TWR OK14 2010E 2014 | 13 May 2013 | Declaration of product performance | - |
| 7. | Ian Bennie & Associates | 4023S12-TWF | 11 May 2005 | Weathertightness & Structural Test Report | 2371 |
| 8. | Ian Bennie & Associates | 2015-014-S1 | 17 Sept 2015 | Weathertightness & Structural Test Report | 2371 |
| 9. | Logical Performance Solutions | Performance Solution Velux Products | 25 Oct 2023 | Weatherproofing Assessment Report | - |
| 10. | Exova WarringtonFire | 2686103.1 | 6 July 2012 | Fire Test Report | 3277 |
| 11. | Exova WarringtonFire | 34505800.1 | 12 May 2015 | Fire Test Report | 3277 |



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The Certificate Holder has chosen not to make the above identified evidence of compliance publicly available, due to the documents being considered commercial in confidence.