

# SolarXVENT<sup>®</sup> Solar Powered Ventilator

Refer to product table below for applicable product codes covered by this document

Issue **B, 10/2025**

## Product Type & Application

SolarXVENT<sup>®</sup> is a solar powered 150mm roof ventilator designed for ventilation of sheds or small residential roof spaces without the need of wind or mains power. It is fitted with a brushless electric motor powered by an 18-volt solar panel.

## Compliance with the New Zealand Building Code

When correctly specified and installed, this product meets or contributes to compliance with the following performance requirements of the building code:

- **B2 Durability** B2.3.1(b) – The materials of construction of the Bradford SolarXVENT Solar Powered Ventilator have a well-established history of use in service.
- **E2 External Moisture** E2.3.2 - The Bradford Ventilation SolarXVENT has more than 5 years' history of use. It complies with the Australian NCC for use in all non-cyclonic wind zones and is tested to AS4046.9.
- **E3 Internal moisture** – E3.3.1 (contributes to) - The Bradford SolarXVENT Ventilator removes moisture laden air from buildings and roof spaces.
- **F2 Hazardous building materials** - F2.3.1 - The materials of construction of the Bradford SolarXVENT Ventilator do not emit or give rise to harmful concentrations of gas, liquid, radiation or solid particles.
- **G4 Ventilation** G4.3.1, G4.3.3 (contributes to) - provides air changes to maintain air purity.
- **G9 Electricity** - G9.3.1 - The SolarXVENT Ventilator is a low voltage product outside the scope of the Electrical Equipment Safety Scheme. It meets Electromagnetic Compatibility requirements for household appliances.

## Basis of Compliance

- Weatherproofing – Excelo Performance Solution Report ECE24168 Residential. CSR Bradford Roof Ventilator Weatherproofing Performance Solution, 5 March 2025.
- EMC Report 0603CSR\_SOLARXVENT\_ASCISPR14.1
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability Second edition (Amendment 12), 28 November 2019.
- Verification Methods E2/VM1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3 for New Zealand Building Code Clause E2 External Moisture Third edition (Amendment 10), 5 November 2020.
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause G4 Ventilation Fourth edition, 27 June 2019.

## Specific Design or Installation Instructions

- Isolate power before installation.
- This product requires specific areas to be sealed against water entry and other areas to be left unsealed to allow internal condensation drainage – refer to the installation guide for details.
- Replacement outside air must be provided via evenly distributed openings such as Bradford Ventilation Metal Eave Vents positioned to facilitate cross-flow ventilation and help the powered ventilator to work more effectively and efficiently.
- Bradford Ventilation recommends 2 eave vents or 0.05m<sup>2</sup> open area to provide replacement air for each SolarXVENT<sup>®</sup>.
- The SolarXVENT<sup>®</sup> has an unguarded fan assembly which may start at any time and should not be used in locations readily accessible to people or animals - the fan is intended for use facing an unoccupied/inaccessible space only.
- For optimal performance install SolarXVENT<sup>®</sup> on the northern side of the roof, in a location with clear sunlight that is not shaded. Performance may degrade the greater the orientation from north and deviation from 20° – 35° roof slope.
- SolarXVENT<sup>®</sup> should be positioned close to the roof ridge above areas in the home that contribute moisture, such as the bathroom, laundry and kitchen.
- This product contains a fan which might be audible when in operation – avoid positioning the product directly over bedrooms, bedroom ensuites or on a roof area adjacent to, or overlooked by an upper storey level of the home where the fan noise may be heard.

**For general installation guidance refer to the product installation guide at [www.bradfordventilation.co.nz](http://www.bradfordventilation.co.nz)**

## Conditions of Storage, Use & Maintenance

- Store in the original packaging in a cool and dry area.
- The electronics and electrical components are designed for indoor installation only and should not come into contact with water.
- Do not attempt to repair – contact Bradford Ventilation for service advice.

**Refer to the product warranty at [bradfordventilation.co.nz](http://bradfordventilation.co.nz) for more information.**

This Product Technical Statement is published in accordance with the Building Act 2004 Section 14g. It relates to this product when it is produced at a CSR approved facility in accordance with CSR Specifications and approved materials, is unmodified, and installed in accordance with the technical data, plans, specifications, and advice prescribed by the manufacturer. It relates to the provisions of the building code in effect at the date of issue of this Product Technical Statement.

# SolarXVENT® Solar Powered Ventilator

## Limitations of Use

- **IMPORTANT** - Do Not Modify This Product: Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed in this PTS.
- This product only operates when the solar panel is fully exposed to enough solar irradiance to power the fan – it will not operate at night and in low light conditions.
- Do not use for exhausting hazardous, abrasive, acidic and alkaline vapour or areas containing explosive or corrosive materials.
- This product has not been tested for, and is not suitable for use in cyclonic wind regions.
- This product is not suitable for use within 500m of a saltwater body.
- This product is not subject to any warning or ban declared by MBIE under section 26 of the Building Act 2004.

## Applicable Product Codes (SKU)

Variant	Material Code
SolarXVENT® Night Sky	187002

## Product Specifications

General	
Ventilator Type	Solar Powered Ventilator
Fan Diameter	120 mm
Throat Diameter	150 mm
Product Weight	2.5 kg
Packaged Weight	3.70 kg
Roof Slope Installation Range	Tiled Roofs 15° to 35° Metal Sheet Roofs 3° to 35° Note: Where applicable all roof pitches must comply to AS1562.1, the Building Code and associated standards.

Material	
Housing	Weatherproof Acrylic
Flashing	Aluminium
Screws	Stainless Steel and Galvanneal

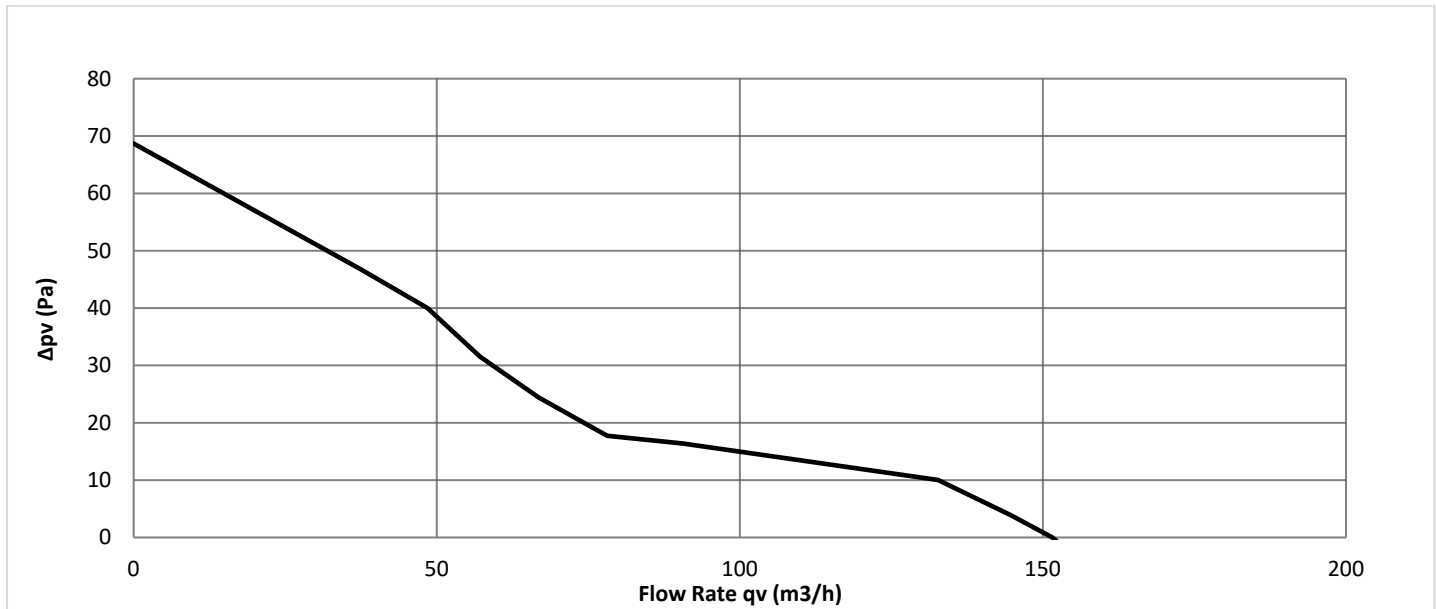


**Product Technical Statement**

## SolarXVENT® Solar Powered Ventilator

Electrical	
Solar Panel Type	Polycrystalline Solar Panel
Solar Panel Output Voltage	18V – Max Power 11W
Fan Type	Brushless DC – Axial Fan
Maximum Flow Rate	150m <sup>3</sup> /hr

### Product Performance – Ventilator Flowrate



## SolarXVENT<sup>®</sup> Solar Powered Ventilator

### Product Dimensions (in mm)

