

Roof Valve BAL Static Ventilator

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

Issue **A**

Product Type & Application

The Bradford Ventilation Roof Valve BAL is a bushfire rated static roof ventilator that allows the release of air from the roof space or internal space via flexible duct. It is constructed from material deemed non-combustible by the NCC with an ember guard assembled in the flashing of the ventilator. It is suitable for residential (Class 1), non-cyclonic applications on metal and tile roofs in BAL 12.5 to 40 zone.

Compliance with the NCC

When correctly specified and installed, this roof ventilator meets the requirements of;

- AS3959:2018 Clause 1.5.23 Non-combustible.
- NCC2019 Volume 2 Roof and Wall Cladding Section 3.5.2.3 (b) via Deemed-to-Satisfy (DtS) and performance solution pathways.
- NCC2022 Housing Provisions Standard – Roof and Wall Cladding Section 7.3.3 (3) (b) via Deemed-to-Satisfy (DtS) and performance solution pathways.
- Meets the requirement of the NCC2019 Ventilation of Roof Spaces Volume 1 Clause F6.4 and Volume 2 Clause 3.8.7.4 as a Deemed-To-Satisfy solution.

Evidence of Suitability

- Bradford Ventilation Deemed-To-Satisfy Solution Table
- ARCADIS Weatherproofing Performance Solution Report (30051677-4).
- Performance of CSR Roof Valve with respect to the construction requirements of AS3959-2018. CSIRO – (FCO3477).

Conditions of Storage, Use & Maintenance

- Store in the original packaging in a cool and dry area.
- Do not attempt to repair – contact Bradford Ventilation for service advice.

Limitations of Use

- The Roof Valve BAL is designed for Class 1 building roof ventilation in non-cyclonic regions
- Do not use for exhausting hazardous, abrasive, acidic and alkaline vapour or areas containing explosive or corrosive materials.
- Duct or connect only one Roof Valve BAL per bathroom/laundry vent.
- Product flowrate will be reduced if ember guard mesh is not adequately maintained.
- When connected to powered fan applications, consult with the fan manufacturer and product airflow performance graph within this PTS document.
- This product is not suitable for BAL-FZ rated areas.

Specific Design or Installation Instructions

- This product must be sealed at the roof penetration and the material used to seal the penetration shall be non-combustible.
- Any gaps greater than 2mm must be sealed with fire-rated sealant.
- Recommended Roof Valve BAL positioning:
 - Tiled Roof: Between third and fourth row of tiles from the ridge cap.
 - Metal Roof: Ideally at the ridge cap but no lower than 1.2m from the ridge cap.
- Installation must be in accordance with the Bradford Ventilation Roof Valve BAL Installation Instruction.
- Refer to the table below for recommended ventilation levels.
- When used in conjunction with flexible ducting to ventilate an internal space, consideration should be given to the pressure loss associated with the Roof Valve BAL and length of flexible duct.

NCC2019 Ventilation of Roof Spaces Deemed-To-Satisfy Solution Requirements:

- Calculate the area (m²) of ceiling directly under the roof space;
- Determine the pitch of the roof;
- Look up the recommended number of Roof Valve BAL and Bradford Ventilation Metal Eave vents in the Deemed-To-Satisfy Solution Table below;
- Distribute the Roof Valve BAL (s) and Bradford Metal Eave Vents evenly.

Bradford Ventilation Deemed-To-Satisfy Solution Table

Roof Pitch	Total Ceiling Area (m ²)	Number of Roof Valve required	Bradford Metal Eave Vents required
> 22°	15	1	2
	30	2	3
	46	3	4
	61	4	5
	77	5	6
	92	6	7
	108	7	8

Total Ceiling Area is defined as the total ceiling area directly under the roof/attic space.

Where the roof pitch is ≤ 22°, the number of ventilators and eave vents specified must be doubled for the same ceiling area.

For general installation guidance refer to the product installation guide at www.bradfordventilation.com.au

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Applicable Product Codes (SKU)

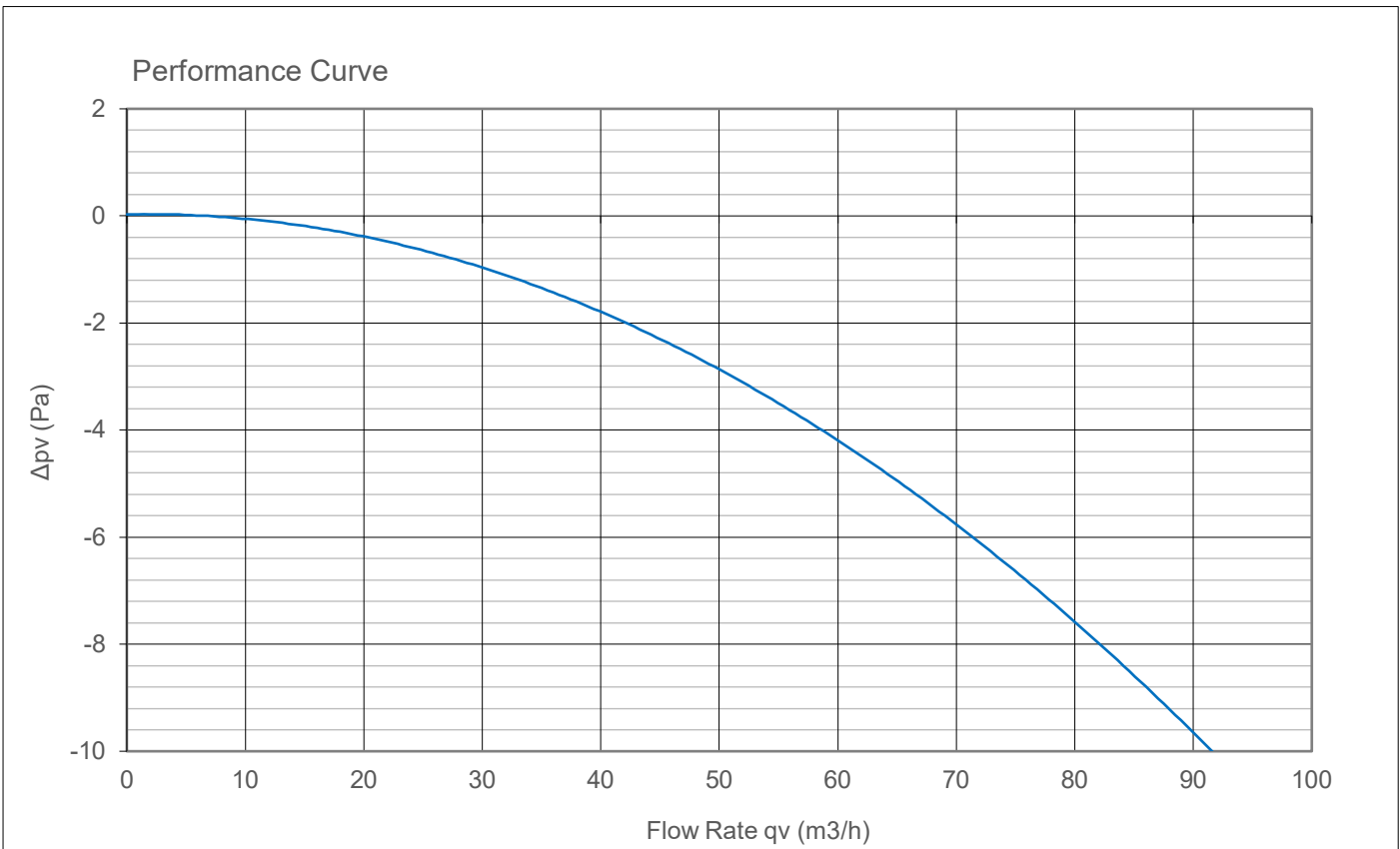
Roof Valve BAL – 150mm Night Sky	481167
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Product Specifications

General	
Ventilator Type	Static BAL Ventilator
Head Diameter	270.3 mm
Collar Diameter	147.0 mm
Product Weight	0.8 kg
Roof Slope Installation Range	3° to 35°
Open Surface Area	7400 mm ²

Material	
Ventilator Head	Aluminium
Ember Guard	Stainless Steel Woven Mesh
Flashing	Aluminium (0.7mm thickness)

Product Airflow Performance –Roof Valve BAL Ventilator



Roof Valve BAL Static Ventilator

Product Dimensions (in mm)

