



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

ssue **B**, 10/2025

Product Type & Application

The Bradford Hurricane Standard (H) is a wind-driven turbine ventilator designed to exhaust heat and moisture from commercial roofs.

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(c) The materials of construction of the Bradford Hurricane Standard (H) turbine ventilator have a well-established history of use in service.
- **E2 External Moisture** E2.3.2 The Bradford Ventilation Hurricane has more than 35 years' history of use. It complies with the Australian NCC for use in all noncyclonic wind zones and is tested to AS4046.9.
- G4 Ventilation G4.3.1, G4.3.3 provides air changes to maintain air purity.
- F2 Hazardous building materials F2.3.1 The materials of construction of the Bradford Hurricane Standard (H) turbine ventilator do not emit or give rise to harmful concentrations of gas, liquid, radiation or solid particles.

Limitations of Use

- IMPORTANT Do Not Modify This Product: Performance and safety are only achieved by the product or configuration listed in this PTS.
- 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.
- Seek technical advice from Bradford Ventilation on application suitability if unsure.

Conditions of Storage, Use & Maintenance

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

Refer to the product warranty at bradfordventilation.com.au for more information

Basis of Compliance

- Tested to AS/NZS 4740:2000 (R2016) Natural ventilators classification and performance.
- CSR Research Laboratory Test Report ETR-00101, Hurricane 100mm Ventilator Dynamic Weather Resistance Test (in accordance with AS4046.9), 21 July 2022.
- CSR Research Laboratory Test Report ETR-00102, Hurricane 400mm Ventilator Dynamic Weather Resistance Test (in accordance with AS4046.9), 21 July 2022.
- CSR Research Laboratory Test Report ETR-00103, Hurricane 900mm Ventilator Dynamic Weather Resistance Test (in accordance with AS4046.9), 21 July 2022.
- Excelo Performance Solution Report ECE24168
 Commercial. CSR Bradford Roof Ventilator
 Weatherproofing Performance Solution, 5 March 2025.
- 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.
- Caution: The turbine head of this product can rotate without warning (even during installation) – always keep body parts away from moving components.
- This is a general-purpose ventilation product, always refer to the installation guidance provided with the product prior to installation.
- The table below shows the minimum make-up air requirement per ventilator that should be provided in accordance with AS1668 2

Product	Make-Up Air per Ventilator	
Hurricane 100-400	≥ 0.3m²	
Hurricane 450-600	≥ 0.5m²	
Hurricane 700-900	≥ 0.9m²	

 Make-up air ingress should be provided via evenly distributed openings which are permanently open and positioned to help the ventilator work more effectively and efficiently (refer to the product installation guide for guidance).

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.







Specific Design or Installation Instructions cont.

- If make-up air is insufficient the ventilators will draw make-up air from each other. This will diminish the system effectiveness air will be drawn inward through ventilators which are meant to be exhausting air. It will also increase the risk of drawing external water into the building during periods of rain. Further to this, it is recommended that ventilators of the same size are used together to prevent make-up air being drawing between ventilators of different sizes.
- The rotating head of this product must be installed horizontally to ensure correct operation – adjustment of the varipitch and base flashing is critical to achieve this orientation (refer to the installation guide for details).
- If the product is installed with a stainless-steel mesh, it should be periodically inspected to remove foreign objects and/or dust build-up to maintain airflow.
- 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.
- The size of the ventilator should be selected based upon the available roof area and required airflow performance.

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

Bradford NZ, 14 The Furlong, Takanini, Auckland For further technical advice call 0800 277 123/ visit bradfordinsulation.co.nz/ email bradford@csr.co.nz Bradford NZ is a business division of CSR Building Products (NZ) Limited (NZBN 9429040750194)

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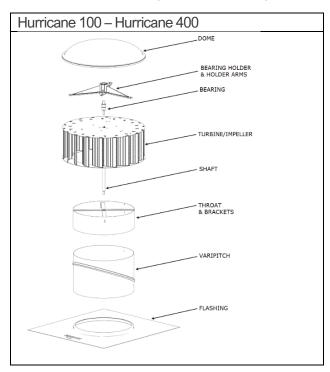


Applicable Product Codes (SKU)

Hurricane 100mm	Hurricane 150mm	Hurricane 300mm	Hurricane 400mm
Mill Finished	Mill Finished	Mill Finished	Mill Finished
61452#	61478#	61504	61530
Custom	Custom	Custom	Custom
601150#	601162#	600670	600671

[#] Product discontinued 1st July 2025.

Product Specifications (in exploded view)



Product Information Summary H100 / H150 / H300 / H400

Ventilator Range	Hurricane®			
Ventilator Model	H100	H150	H300	H400
Ventilator Type (AS/NZS 4740:2000 cl 1.5)	Type 4 – Rotating Wind-Driven Roof Ventilator			
Ventilator Performance Class (A	AS/NZS 4740:2000 Table 1.2)			
Rain Resistance	50 m/s No Water - Class A	50 m/s No Water - Class A	50 m/s No Water - Class A	50 m/s No Water - Class A
Effective Aerodynamic Area, EAA	0.003 m ²	0.009 m ²	0.044 m²	0.082 m ²
Discharge Coefficient, Cd	0.539 - Class 2	0.529 - Class 2	0.712 - Class 1	0.731 - Class 1
Flow Coefficient, C _f	0.2 - Class 4	0.21 - Class 4	0.27 - Class 3	0.24 - Class 4
Nominal Performance* (m³/h)				
0 m/s	25 m³/h	76 m³/h	375 m³/h	699 m³/h
3 m/s	26 m³/h	79 m³/h	397 m³/h	742 m³/h
6 m/s	28 m³/h	87 m³/h	457 m³/h	857 m³/h

^{*}In accordance to AS/NZS 4740:2000 nominal performance parameters where h = 6m, ΔT = 14°C, T = 20°C

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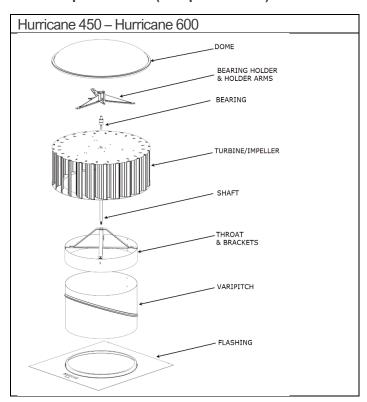




Applicable Product Codes (SKU)

Hurricane 450mm	Hurricane 500mm	Hurricane 600mm
Mill Finished	Mill Finished	Mill Finished
61556	61582	61608
Custom	Custom	Custom
600672	600673	600674

Product Specifications (in exploded view)



Product Information Summary H450 / H500 / H600

Ventilator Range	Hurricane®		
Ventilator Model	H450	H500	H600
Ventilator Type (AS/NZS 4740:2000 cl 1.5)	Type 4 – Rotating Wind-Driven Roof Ventilator		
Ventilator Performance Class (AS	/NZS 4740:2000 Table 1.2)		
Dain Dacistanas	50 m/s No Water	50 m/s No Water	50 m/s No Water
Rain Resistance	- Class A	- Class A	- Class A
Effective Aerodynamic Area, EAA	0.108 m ²	0.137 m ²	0.165 m ²
Discharge Coefficient, Cd	0.764 - Class 1	0.780 - Class 1	0.639 - Class 2
Flow Coefficient, C _f	0.30 - Class 3	0.31 - Class 3	0.24 - Class 4
Nominal Performance* (m³/h)			
0 m/s	921 m³/h	1169 m³/h	1408 m³/h
3 m/s	988 m³/h	1259 m³/h	1475 m³/h
6 m/s	1165 m ³ /h	1497 m³/h	1660 m³/h

^{*}In accordance to AS/NZS 4740:2000 nominal performance parameters where h=6m, $\Delta T=14^{\circ}C$, $T=20^{\circ}C$

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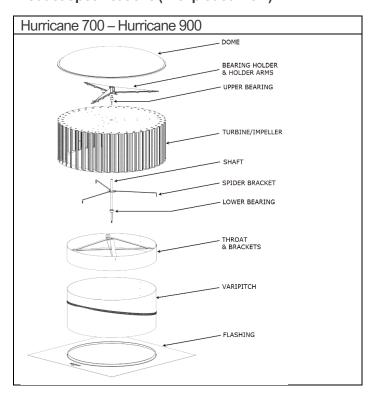




Applicable Product Codes (SKU)

Hurricane 700mm	Hurricane 900mm
Mill Finished	Mill Finished
61634	61686
Custom	Custom
600675	600677

Product Specifications (in exploded view)



Product Information Summary H700 / H900

Ventilator Range	Hurricane [®]		
Ventilator Model	H700	H900	
Ventilator Type (AS/NZS 4740:2000 cl 1.5)	Type 4 – Rotating Wind-Driven Roof Ventilator		
Ventilator Performance Class (AS/NZS 4740:2000 Table 1.2)			
Rain Resistance	50 m/s No Water - Class A	50 m/s No Water - Class A	
Effective Aerodynamic Area, EAA	0.226 m ²	0.372 m ²	
Discharge Coefficient, Cd	0.631 - Class 2	0.63 - Class 2	
Flow Coefficient, C _f	0.18 - Class 4	0.22 - Class 4	
Nominal Performance* (m³/h)			
0 m/s	1929 m³/h	3175 m ³ /h	
3 m/s	1978 m³/h	3297 m³/h	
6 m/s	2119 m ³ /h	3638 m ³ /h	

^{*}In accordance to AS/NZS 4740:2000 nominal performance parameters where h = 6m, ΔT = 14°C, T = 20°C

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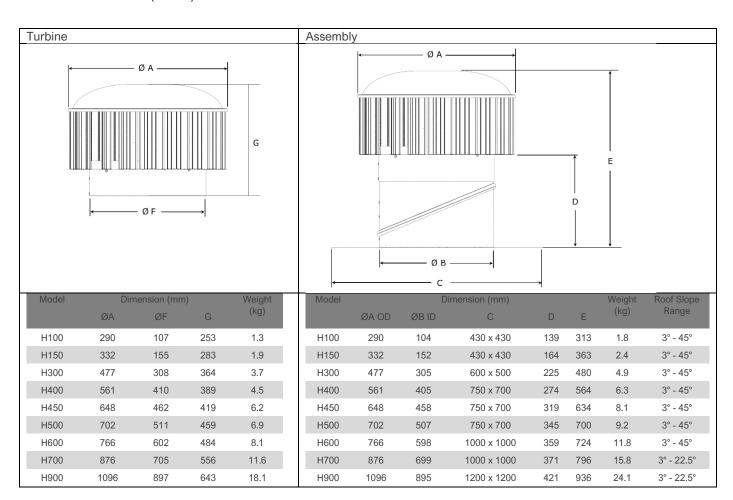
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Product Dimensions (in mm)



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