

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

В Issue

#### **Product Type & Application**

The Bradford Hurricane® Standard (H) is a wind-driven turbine ventilator designed to exhaust heat and moisture from non-BAL residential (Class 1) and commercial roofs (Class 2 to 9).

#### **Compliance with the NCC**

For use in Australia, when correctly specified and installed, this product provides the following compliance:

#### NCC2022

• Weatherproofing - Meets the requirements of the NCC 2022 Volume 1 Weatherproofing Performance Requirement F3P1 via Deemed-to-Satisfy (DtS) and performance solution pathways.

#### NCC2019

• Weatherproofing - Meets the requirements of the NCC 2019 Volume 1 Amend. 1 Weatherproofing Performance Requirement FP1.4 via Deemed-to-Satisfy (DtS) and performance solution pathways.

#### **Evidence of Suitability**

• Weatherproofing - Northrop Report SY222211-00 - RPFA1.

#### 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.
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- This product has not been tested for use in cyclonic wind regions C or D.
- This product is not suitable for use in Bush Fire BAL-12.5 to BAL-40 or BAL-FZ rated areas.
- The optional stainless-steel mesh used in this product as an insect guard does not comply with BAL requirements.
- This product is not suitable for use within 500m of a saltwater body.
- · Seek technical advice from Bradford Ventilation on application suitability if unsure.

### **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 - 100% open, evenly distributed open area	
Hurricane <sup>®</sup> 100-400	≥ 0.3m²	
Hurricane <sup>®</sup> 450-600	≥ 0.5m²	
Hurricane® 700-900	≥ 0.9m²	

- · Make-up air 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) - note that these openings may also require ember protection in BAL zones which may restrict airflow and require the replacement air/make-up air area calculation to be increased.
- 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

#### 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.

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

Product Technical Statements are referenced as suitable documentary evidence to support the use of a product for a Performance Requirement or a Deemed-to-Satisfy Provision of the BCA under Part A5.2(1)(f) (2019) or A5G3(f) (2022).

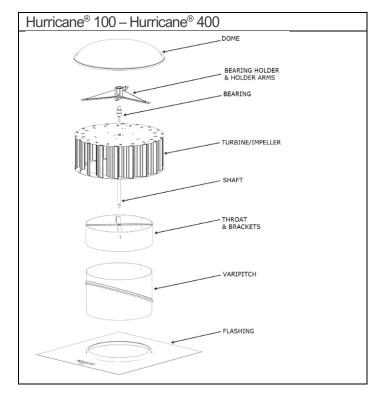




# Applicable Product Codes (SKU)

Hurricane <sup>®</sup> 100mm	Hurricane <sup>®</sup> 150mm	Hurricane <sup>®</sup> 300mm	Hurricane <sup>®</sup> 400mm
Mill Finished	Mill Finished	Mill Finished	Mill Finished
61452	61478	61504	61530
Custom	Custom	Custom	Custom
601150	601162	600670	600671

#### 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 (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 <sup>2</sup>	0.009 m <sup>2</sup>	0.044 m <sup>2</sup>	0.082 m <sup>2</sup>
Discharge Coefficient, C <sub>d</sub>	0.539 - Class 2	0.529 - Class 2	0.712 - Class 1	0.731 - Class 1
Flow Coefficient, C <sub>f</sub>	0.2 - Class 4	0.21 - Class 4	0.27 - Class 3	0.24 - Class 4
Nominal Performance* (m <sup>3</sup> /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,  $\Delta T = 14^{\circ}C$ ,  $T = 20^{\circ}C$ 

CSR Bradford Locked Bag 1345 North Ryde BC NSW 1670 csrbradford.com.au

For further technical advice call 1300 850 305 or visit csrbradford.com.au

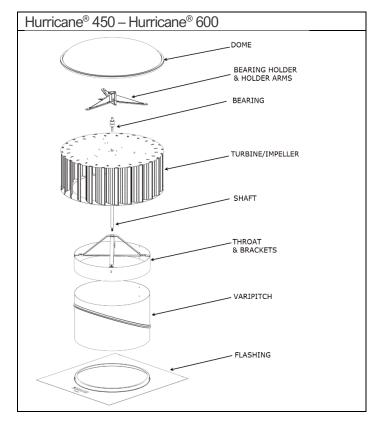




# Applicable Product Codes (SKU)

Hurricane <sup>®</sup> 450mm	Hurricane <sup>®</sup> 500mm	Hurricane <sup>®</sup> 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)			
Rain Resistance	50 m/s No Water	50 m/s No Water	50 m/s No Water
	- Class A	- Class A	- Class A
Effective Aerodynamic Area, EAA	0.108 m <sup>2</sup>	0.137 m <sup>2</sup>	0.165 m <sup>2</sup>
Discharge Coefficient, Cd	0.764 - Class 1	0.780 - Class 1	0.639 - Class 2
Flow Coefficient, C <sub>f</sub>	0.30 - Class 3	0.31 - Class 3	0.24 - Class 4
Nominal Performance* (m <sup>3</sup> /h)			
0 m/s	921 m³/h	1169 m <sup>3</sup> /h	1408 m³/h
3 m/s	988 m³/h	1259 m <sup>3</sup> /h	1475 m³/h
6 m/s	1165 m³/h	1497 m <sup>3</sup> /h	1660 m³/h

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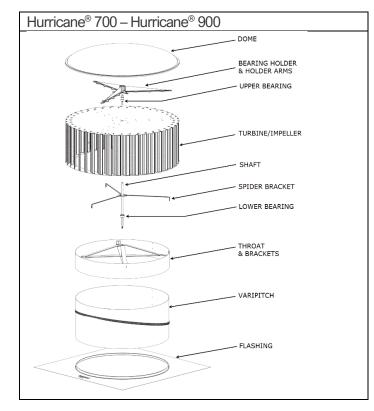




# Applicable Product Codes (SKU)

Hurricane® 700mm	Hurricane <sup>®</sup> 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	Н900	
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 <sup>2</sup>	0.372 m <sup>2</sup>	
Discharge Coefficient, Cd	0.631 - Class 2	0.63 - Class 2	
Flow Coefficient, Cf	0.18 - Class 4	0.22 - Class 4	
Nominal Performance* (m <sup>3</sup> /h)			
0 m/s	1929 m³/h	3175 m <sup>3</sup> /h	
3 m/s	1978 m³/h	3297 m <sup>3</sup> /h	
6 m/s	2119 m <sup>3</sup> /h	3638 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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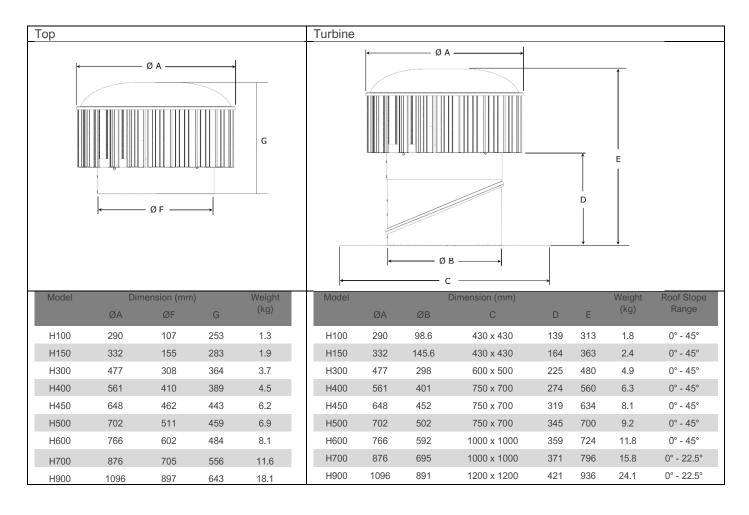
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# Hurricane<sup>®</sup> Standard (H) Turbine Ventilator

# Product Dimensions (in mm)



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