

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

Issue

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Product Type & Application

The Bradford Ventilation WindMaster is a wind driven natural ventilator designed to exhaust heat & moisture from the roof space, without the use of electrical energy.

Compliance with the NCC

When correctly specified and installed this natural roof ventilator:

NCC2022

- Ventilation of Roof Spaces Meets the requirements of NCC2022 Volume 1 F8D5 and ABCB Housing Provisions Standard 2022 10.8.3 as a Deemed to Satisfy solution for condensation management for NCC Climate Zones 6, 7 and 8.
- Weatherproofing Meets the requirements of the NCC 2022 Volume 2 Weatherproofing Performance Requirement H2P2 via Deemed-to-Satisfy (DtS) and performance solution pathways.

NCC2019

- Ventilation of Roof Spaces Meets the requirements of the NCC2019 Volume 1 Amend.1 F6.4 and NCC 2019 Volume 2 Amend.1 3.8.7.4 as a Deemed-To-Satisfy solution
- Weatherproofing Meets the requirements of the NCC 2019 Volume 2 Amend. 1 Weatherproofing Performance Requirement P2.2.2 via Deemed-to-Satisfy (DtS) and performance solution pathways.

Evidence of Suitability

- Ventilation of roof spaces Bradford Ventilation DTS Solution Calculation.
- Weatherproofing Arcadis Report 30051677_4.

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.

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 has not been tested for use in cyclonic wind regions C or D.
- Do not use for exhausting hazardous, abrasive, acidic and alkaline vapour or areas containing explosive or corrosive materials.
- This product is not suitable for bushfire BAL-12.5 to BAL-40 or FZ rated areas.

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.
- New construction refer to the tables below for recommended ventilation levels. Note that there are differences in requirements between NCC 2019 and NCC 2022
- Retro-fit construction for each 90sqm of ceiling area it is recommended that 1 WindMaster and 2 Bradford metal eave vents should be installed.
- The rotating head of this product must be installed horizontally to ensure correct operation.

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





Specific Design or Installation Instructions cont.

NCC2022 Ventilation of Roof Spaces Deemed-To-Satisfy Solution Requirements Calculation in Table 1:

The table below indicates the ventilation opening requirements for condensation management in NCC Climate Zones 6, 7 and 8. The NCC gives and open area requirement per meter length of the longest horizontal dimension (e.g., the longest length of gutter) of the roof, the table indicates how many products are required based on this. Ventilation openings should be evenly distributed.

WindMaster vents should be installed not more than 900mm below the ridge or highest point of the roof space, measured vertically.

Table 1. NCC 2022 Bradford Deemed-To-Satisfy Solution

Products	WindMaster Roof Ventilator Requirement	Bradford Metal Eave Vent Requirement	
Roof Pitch	· ·		
<10°		Install 1 Metal Eave Vent for every 0.7m of the longest	
		horizontal roof length. These must be equally divided	
		between the two opposing ends of the roof.	
≥10° and <15°	1 WindMaster for every 12.5m of the	1 Eave Vent for every 1.4m of the longest horizontal	
	longest horizontal roof length.	roof length.	
≥15° and <75°	1 WindMaster for every 12.5m of the	1 Eave Vent for every 5.0m of the longest horizontal	
	longest horizontal roof length.	roof length.	
≥15° and <75°	1 WindMaster for every 12.5m of the	1 Eave Vent for every 1.4m of the longest horizontal	
Cathedral	longest horizontal roof length.	roof length.	

IMPORTANT APPLICATION NOTE: The number of vents required should be rounded up, not down, to ensure that the ventilation provided meets or exceeds the recommended requirement. For example, the ventilation requirement for a 10° pitched roof 20m long in the longest horizontal direction is calculated as follows:

- The ventilator requirement (1 per 12.5m) is calculated as follows: 20m divided by the recommended WindMaster spacing of 12.5m = 20/12.5 = 1.6 vents which should be rounded up to 2 WindMasters, to be evenly distributed along the roof.
- The metal eave vent requirement (1 per 1.4m) is calculated as follows: 20m divided by the recommended metal eave vent spacing of 1.4m = 20/1.4 = 14.2 eave vents which should be rounded up to 16 metal eave vents, evenly distributed around the roof.

NCC2019 Ventilation of Roof Spaces Deemed-To-Satisfy Solution Requirements Calculation in Table 2:

The table below indicates the ventilation opening requirements for condensation management in all NCC Climate Zones when kitchen, bathroom, sanitary compartment or laundry exhaust systems are discharging into the roof space.

- Calculate the area (m²) of ceiling directly under the roof space;
- Determine the pitch of the roof;
- Look-up the recommended number of WindMasters and Bradford metal eave vents in the Deemed-To-Satisfy Solution Table
 2 below:
- o Distribute the WindMaster(s) and Bradford Metal Eave Vents evenly.





Specific Design or Installation Instructions cont.

NCC 2019 Bradford Deemed-To-Satisfy Solution Table 2.

Roof Pitch	Total Ceiling Area ¹	Number of	Bradford Metal Eave
	(m²)	WindMasters required	Vents required
	< 62	1	5
	< 124	2	9
> 22°	< 187	3	13
	< 249	4	17
	< 312	5	22
	< 374	6	26
≤ 22°	< 62	2	10
	< 124	4	18
	< 187	6	26
	< 249	8	34
	< 312	10	44
	< 374	12	52

¹ Total Ceiling Area is defined as the total ceiling area directly under the roof/attic space.

Applicable Product Codes (SKUs)

Classic Cream	Paperbark	Cove	Gully	Loft	Surfmist
61151	61152	125754	125751	90674	61143
Evening Haze 90673	Mangrove	Pale Eucalypt	Wilderness	Cottage Green	Headland
	125755	61147	61150	61148	61145
Jasper	Terrain	Manor Red	Shale Grey	Dune	Windspray
61161	125753	61146	61155	61153	61154
Basalt	Wallaby	Woodland Grey	Deep Ocean	Ironstone	Monument
125752	125756	61149	61159	61166	90675
Night Sky	Mill	Bluegum	Dover White	Southerly	
61144	61141	481726	481724	481725	

Product Specifications

General		Material		
Ventilator Type	Natural Roof Ventilator	Turbine	Aluminium	
Turbine Diameter	420 mm	Varipitch	Aluminium	
Varipitch Diameter	306 mm	Flashing	Aluminium	
Product Weight	1.90 kg	Shaft	Zinc passivate plated mild steel	
Roof Pitch	Tiled Roofs 15° to 45° Metal Sheet Roofs 3° to 45° Note: Where applicable all roof pitches must comply to AS1562.1, the NCC & Australian Standards	Bearing Holder, Support Ring and Brackets	Glass-Filled Nylon	
TOOT I TOT		Screws	Stainless Steel and Galvanised	

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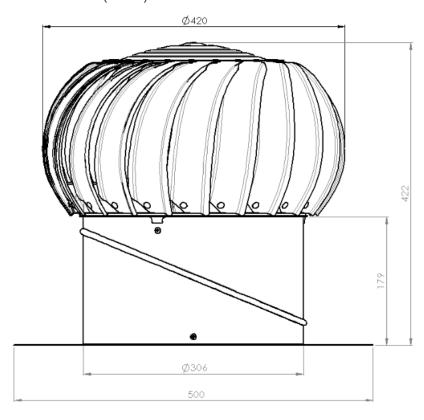
For further technical advice

call 1300 850 305 or visit csrbradford.com.au CSR Bradford is a business division of CSR Building Products Limited ABN 55 008 631 356
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Product Dimensions (in mm)



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

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