

Product Technical Bulletin

Identification

Product Name: **Ampelite Spinaway Turbo and Superflow Ventilators**
100% Australian Made & Owned

Product Overview Ampelite ventilators efficiently exhaust hot air trapped in roof spaces, helping to reduce internal temperatures. They also remove dampness and condensation, improving bathroom ventilation and preventing the growth of mold and mildew. The ventilators offers natural ventilation for roof spaces, ensuring fresher interiors.

Both the Ampelite Spinaway and Superflow ventilators are wind-driven, factory-assembled solutions. These units meet the requirements for BAL 12.5 to BAL 40 in Class 1 and 10a residential applications when paired with the Ampelite Vent Mesh. Designed to expel heat and moisture without the need for electrical power, they rely solely on natural airflow.

Compliance with the NCC 2022 When correctly specified and installed, Ampelite ventilators meet the following Australian compliance standards:

- **Roof Space Ventilation:** Complies with NCC 2022 Volume 1 F8D5 and ABCB Housing Provisions Standard 2022 10.8.3 as a Deemed-to-Satisfy (DtS) solution for condensation management in NCC Climate Zones 6, 7, and 8.
- **Bushfire-Prone Areas:** Meets NCC 2022 Volume 1 G5D3 and NCC 2022 Volume 2 H7D4 requirements through compliance with AS 3959. Ampelite Vent Mesh is critical for compliance.
- **Weatherproofing:** Complies with NCC 2022 Volume 2 Weatherproofing Performance H2P2 via DtS and performance solution pathways.

Important Product Use Limitations • **Product Modification:** Do not modify the product, as compliance is only assured when installed according to the specifications in this document.

- **Unsuitable Applications:**
 - BAL-FZ rated areas.
 - Cyclonic wind regions C or D.
 - Areas containing hazardous, abrasive, acidic, or alkaline vapors, or those with explosive or corrosive materials.
 - Locations within 500m of saltwater bodies.

- Installation Requirements**
- Flashings must seal any gaps $\leq 2\text{mm}$ between the roof cladding and the flashing. Sealant should only be used for weatherproofing purposes.
 - Follow the Ampelite Vent Mesh Installation Guide for proper installation.
 - Ensure the ventilator's rotating head is installed horizontally to maintain proper functionality.
 - Refer to the included tables for recommended ventilation levels.



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Ventilation Requirements Calculation (Table 1)

Table 1 outlines the ventilation opening requirements for condensation management in NCC Climate Zones 6, 7, and 8. The table indicates the number of ventilators required based on the longest horizontal roof dimension. Ventilators units should be installed no more than 900mm below the ridge or highest roof point.

Example Calculation:

For a 10° pitched roof with a 20m length in the longest horizontal direction:

- **Ventilator Requirement:** 20m / 7.1m spacing = 2.8 vents, rounded up to 3 Spinaway units.
- **Under Eave Vent Requirement:** 20m / 1.4m spacing = 14.2 vents, rounded up to 16 metal eave vents, evenly distributed around the roof.

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

| Products | Spinaway Roof Ventilator Requirement | Metal Eave Vent Requirement |
|-------------------------|--|--|
| Roof Pitch | | |
| <10° | | Install 1 Under 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 Spinaway for every 7.1m of the longest horizontal roof length. | 1 Under Eave Vent for every 1.4m of the longest horizontal roof length. |
| ≥15° and <75° | 1 Spinaway for every 7.1m of the longest horizontal roof length. | 1 Under Eave Vent for every 5.0m of the longest horizontal roof length. |
| ≥15° and <75° Cathedral | 1 Spinaway for every 7.1m of the longest horizontal roof length. | 1 Under Eave Vent for every 1.4m of the longest horizontal roof length. |

Technical Specifications

| General | |
|--|---|
| Ventilator Type | Natural Roof Ventilator |
| Turbine Diameter | 420mm |
| Varipitch Diameter | 306mm |
| Throat Open Area (including mesh) | 35,800mm ² |
| Product Weight | 2.20kg |
| Applicable Roof Pitches: | Tiled Roofs 15° to 45°. Metal Sheet Roofs 3° to 45°. Note: All roof pitches must comply with AS1562.1, the NCC & Australian Standards. |