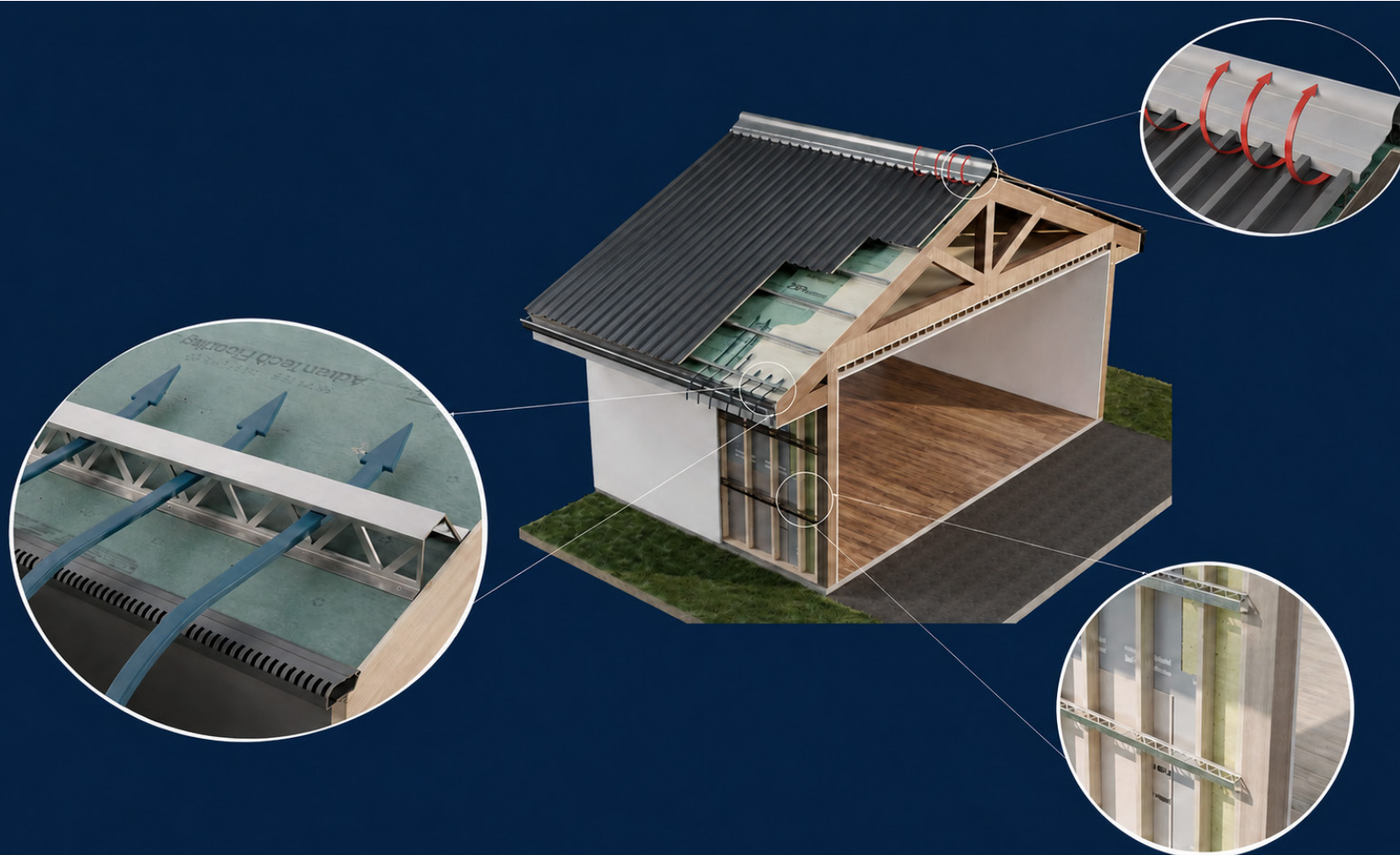


Ventilation of Roof Spaces



OPENINGS PROVIDE 25,000MM² PER LINEAR METER



NCC 2022 - 10.8.3 CONDENSATION REQUIREMENTS

ROOF PITCH	VENTILATION OPENINGS	
LESS THAN 10°	25,000 MM ² /M AT EACH OF TWO OPPOSING ENDS	✓
10° TO LESS THAN 15°	25,000 MM ² /M AT THE EAVES + 5,000 MM ² /M AT HIGH LEVEL	✓
15° TO LESS THAN 75°	7,000 MM ² /M AT THE EAVES + 5,000 MM ² /M AT HIGH LEVEL	✓
CATHEDRAL CEILING, 15° TO LESS THAN 75°	SAME AS ABOVE + AN ADDITIONAL 18,000 MM ² /M AT THE EAVES	✓



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Paton Ventilated Batten

Technical Information & Installation Guide

PATON VB350 VENTILATED WALL BATTEN & VB500 VENTILATED ROOF BATTEN

The Paton VB350 Ventilated Wall Batten and VB500 Ventilated Roof Batten combine structural support with integrated ventilation in high-strength steel profiles. Engineered ventilation openings allow airflow to pass laterally through the relevant wall or roof cavity while maintaining the structural function of a conventional steel batten.

Australian Patent Application No. 2025903332

1. INSTALLATION RECOMMENDATION

VB350 wall battens and VB500 roof battens are designed for straightforward installation using conventional batten practices. Battens are supplied in 3 metre lengths and can be installed individually or joined where longer continuous runs are required.

For continuous runs, adjoining battens are overlapped by 300 mm and connected using a minimum 6-gauge x 20 mm hex-head screws—three through the top flange and three through the bottom flange. At each supporting rafter or framing member, battens are fixed using a minimum 8-gauge x 40 mm hex-head roofing screw.

Battens must be installed in accordance with applicable engineering requirements, cladding manufacturer requirements and project specifications. Ventilation openings must remain clear of insulation, membranes, sealants and other materials.

2. STRENGTH & DURABILITY

Paton Ventilated Battens are manufactured from G500 high-strength steel with a Z275 coating, providing strength and corrosion protection for their intended building applications.

The VB500 roof batten utilises a 1.15 mm base metal thickness and has been independently assessed by a structural engineer for its intended roof-batten application. The VB350 wall batten utilises a 0.75 mm base metal thickness.

VB350 Ventilated Wall Batten:

35 mm overall height
96 mm overall width
32 mm top flange

VB500 Ventilated Roof Batten:

50 mm overall height
106 mm overall width
37 mm top flange

Both profiles weigh approximately 1 kg per metre, or 3 kg per 3 metre length. Structural capacities and maximum allowable spans for the VB500 must be determined from the applicable engineering report.

3. VENTILATION & CONDENSATION

Unlike traditional solid batten profiles, the VB350 and VB500 incorporate repeated ventilation openings through the sides of the batten, allowing air to continue moving laterally through the relevant wall or roof cavity.

Each ventilation opening is approximately 34 mm x 75 mm.

When incorporated into an appropriately designed ventilation system, the battens help:

- Minimise airflow through the cavity.
- Reduce obstruction caused by conventional solid battens.
- Maintain separation between the exterior cladding and the layer below.

- Support moisture and condensation management.
- Maintain an airflow pathway between designed ventilation inlets and outlets.

The VB500 Ventilated Roof Batten is designed for use as part of a total ventilated roof system supporting compliance with NCC Housing Provisions Part 10.8.3—Ventilation of Roof Spaces. The VB350 is intended for use as a ventilated wall batten and is not included in this roof-space compliance statement.

4. OCCUPATIONAL HEALTH & SAFETY

Installation, handling and cutting must be undertaken in accordance with applicable workplace health and safety requirements and site procedures.

Appropriate PPE should be used when handling, cutting, unpacking, drilling and fastening steel battens.

Suitable working-at-height and fall-prevention controls must be used during roof installation of the VB500 and wherever required during wall installation of the VB350.

VB350 wall battens and VB500 roof battens must not be used as anchorage points for personal fall-arrest equipment unless specifically designed and certified for that purpose.

5. DELIVERY, STORAGE & SITE HANDLING REQUIREMENTS

VB350 wall battens and VB500 roof battens are supplied in:

- 10 battens per pack
- 3 metres per batten
- 30 linear metres per pack
- Approximately 30 kg product weight per pack

Battens are stacked and supplied on a pallet with plastic wrapping around the ends for transport protection.

Before installation, inspect battens for transport or handling damage.

Where possible, battens should be stored indoors in a clean, dry environment. For outdoor storage, keep packs clear of the ground, securely stacked and protected from prolonged exposure to moisture while maintaining adequate ventilation.

If battens become wet, allow them to drain and dry before prolonged storage.

6. PRODUCT PERFORMANCE

The Paton VB350 Ventilated Wall Batten and VB500 Ventilated Roof Batten provide a practical way to combine structural support and ventilation within a single steel profile.

Key features include:

- Structurally assessed VB500 roof-batten performance. VB350 profile designed for wall-batten applications.
- G500 high-strength steel.
- Z275 galvanised coating.
- Choice of 35 mm wall-batten or 50 mm roof-batten profile heights.
- Integrated 34 x 75 mm ventilation openings.
- Lateral airflow pathway through the relevant wall or roof cavity.
- Standard 3 metre lengths.
- 300 mm joining overlap for continuous runs.
- Stackable construction for efficient transport and handling.
- Installation using conventional batten practices.

Relevant NCC provision for the VB500 Ventilated Roof Batten:

NCC Housing Provisions—Part 10.8 Condensation Management, Clause 10.8.3 Ventilation of Roof Spaces.

The VB500 Ventilated Roof Batten forms one component of a complete roof system. Final compliance depends on the design, specification and installation of all components within that system.

The VB350 is intended for use as a ventilated wall batten and is not included in this roof-space compliance statement.

Ventilated Battens

Product Specifications:

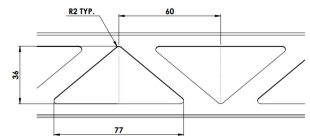
Specification	VB350	VB500
Overall Height mm	35	50
Overall Width mm	96	106
Top Flange Width mm	32	37
Base Metal Thickness mm	0.75	1.15
Standard Length	3000	3000
Steel Grade	G500	G500
Coating	Z275	Z275
Mass	1.0 kg/m	1.0 kg/m

THIS PRODUCT MEETS THE REQUIREMENTS OF AS/NZS 4600 FOR SPANS UP TO 1200MM

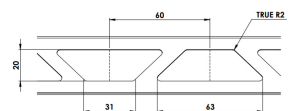
Batten VB500 Load Capacity Tables for set spans

Span	Buckling ^a R _{Ed} = 0.30 R _{yk}	Deflection ¹ L/150	#Section Strength - R _u (Ref only)	
600	12.38	9.17	23.66	kN/m
900	5.51	4.88	10.51	kN/m
1200	1.98	2.67	5.91	kN/m

VB500 VENTILATION DETAIL



VB350 VENTILATION DETAIL



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