

# WARRANTY VB10 & VB20 are warranted for 15 years

#### VB10 Vented Batten



VB20 Vented Batten





#### DESCRIPTION

The VENT Systems VB10 (10mm) & VB20 (20mm) Ventilation and Drainage Battens are Polypropylene Ventilation, Drainage & Separation Battens designed to facilitate passive airflow, drainage and prevent dew point transference in roof and wall cavities. Thereby reducing the risk of moisture build up and condensation.

#### FEATURES AND BENEFITS (GENERAL)

- Convenient peel-off adhesive backing provides temporary fixing, reducing the need for nails or screws to hold the battens in position
- 4mm apertures help prevent ingress of nesting insects
- Provide the following free open area per linear metre:
  - VB20:14,500mm<sup>2</sup>/lm
  - VB10 : 7,250mm<sup>2</sup>/lm
- Drainage capacity per linear metre:
  - VB20 : 40 Litre/minute
  - VB10 : 20 Litre/minute
- Easy to install 1,800mm lengths for easy handling
- Strong and durable Designed and tested to exceed minimum roof load requirements with a compressive load strength of 1,320Kpa
- Convenient peel-off adhesive backing provides temporary fixing, reducing the need for nails or screws to hold the battens in position.

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**ROOF APPLICATIONS** 



#### BACKGROUND

VENT Systems Ventilation & Drainage Battens can be sued both above and below the membranes in traditional skillion/cathedral roof designs. The application and size of the Ventilation & Drainage Battens can vary depending on various factors such as roofing profile, orientation and the design of the roof itself. This flexibility allows for tailored solutions to effectively manage airflow and drainage in different roofing scenarios, ensuring optimal performance and moisture management. Products are not supplied with BAL Mesh.

#### FEATURES & BENEFITS - ROOFING VB10

- VENT Systems Battens provide for a drainage and ventilation path under flat profile and concealed-fix roof or wall claddings.
- Can reduce the risk of ponding of water on sarking behind roof battens and the fascia.
- Allows for vapour permeable membranes to be installed without direct contact to the roof or wall cladding thus reducing localised condensation risk on the interior face of these membranes.
- Reduces conductive heat transfer between the roof or wall cladding and the structure.
- Does not restrict buoyancy induced air flow under the roof sheet or within wall cavities.
- With a compressive strength of 1,320Kpa, exceeds minimum 300kPa compressive strength

   a requirement of some major roof cladding manufacturers when using extruded polystyrene (XPS) foam insulation packers.
- Far superior drainage drainage and airflow rates compared to castellated battens

#### FEATURES & BENEFITS - ROOFING VB20

- VENT Systems Battens provide for a drainage and ventilation path under flat profile and concealed-fix roof or wall claddings.
- Used in skillion or cathedral roof battens provide for a drainage and ventilation path under flat profile and concealed-fix roof or wall claddings Ensures unimpeded airflow above roof battens in skillion/ cathedral roofs
- Ensures no moisture can be trapped in area where roof battens and membranes meet, where low air velocity exists in skillion/cathedral roofs and
- Can be used to create a 20mm separation and drainage gap when used above membrane (refer VB10)
- Far superior drainage and airflow rates compared to castellated timber battens



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### **ROOF INSTALLATION**

Reference should be made to the fastening specification of the cladding and ensure that the specified spacing, position and thread penetration through the supporting structure is suitable when using VB10 & VB20 battens. The fastener length should be increased to suit the drainage batten thickness (10mm or 20mm)

Install the sarking in accordance with AS4200.2:2017, taping overlaps where required, such as on low pitched roofs. When sarking is installed over roof battens/ purlins and/or VB20 battens the drape should be minimised to avoid ponding behind battens.

For above membrane installations, prior to fixing the roof sheet, cut the VB10 or VB20 with a knife, cutting tool or hand saw, to the required length and position along each roof batten adhering to the clean and dry sarking using the self adhesive backing to hold the VB10 or VB20 in position. Fix the roof sheet as soon as possible as the self adhesive is only intended as a temporary fix for positioning the batten. If the VB10 or VB20 is being left exposed for a long period or under windy conditions then a mechanical fix or stronger double sided tape may be needed.

For below membrane installation of the VB20 batten, place directly on top of roof batten using adhesive strip. Add additional temporary fixings (40mm flathead nail) where required to hold in place while walking over them during installation. Use a knife, cutting tool or hand saw to required length where required.

Care must be taken when fixing the roof sheet not to compress the VB10 and/or VB20. To avoid deformation of the roof sheet, compression of the drainage batten or damaging washers, ensure that torque is not set too high when fixing through the batten.

The VB10 and VB20 are not a structural batten and are designed only to provide and maintain separation between the roof batten/purlin and the roof sheet or a ventilation pathway above roof battens in skillion/ cathedral roofs (VB20). When using the VB10 and VB20 in roof applications a hi-grip roof fastener must be used.

### As selected permeable membrane Selected roofing with turn down Selected battens as per specifications lent Systems Roll Panel / Eaves Baffle **G502** if required in confined space to ensure air flow over insulation. Anti-ponding board / Flashing Vent Systems Eaves Comb Filler - G1275 Vent Systems Ventilation & Drainage Batten 20mm - VB20 between framing and fascia board Air Flow Vent Svstems Over Vent - G1200N Selected fascia and gutter installed in accordance with specifications Selected exterior cladding installed in accordance with specifications

#### Ventilation & Drainage Batten VB10

The company maintains a policy of continuous development of its product range and reserves the right to amend the specification without notice.

**NOTE**: Diagrams are for guidance purposes only. This is a suggested method of ventilation but the overall design and dimensions are the responsibility of the designer in compliance with the NCC, individual state requirements and AS3959 in bush fire prone areas.



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#### Ventilation & Drainage Batten VB20



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WALL APPLICATIONS



#### BACKGROUND

The VENT Systems VB10 and VB20 can be used in wall applications to create or maintain ventilation and drainage cavities behind light weight cladding.

The batten is fixed as required, vertically or horizontally, aligned with studs, noggins, and the top and bottom plates.

The VB10 or VB20 is typically used in conjunction with a structural timber batten or noggin. Where a structural batten is not required such as a structurally insulated panel (SIPS), where a sheathing board provides a fixing point for cladding or where the cladding is fixed at all points to the frame.

The VB10 or VB20 can be used either in combination with, or as an alternative to non-structural wall battens, to create a ventilation and drainage cavity behind the wall cladding.

As the VB10 and VB20 are open to air movement and drainage, they are well suited for use horizontally or vertically above and below windows where solid battens can potentially block ventilation and drainage.

#### **FEATURES & BENEFITS - WALLS**

- Designed for use with light weight claddings to create 10mm or 20mm ventilation and drainage cavities
- Can be used horizontally or vertically
- The self adhesive strip provides temporary fixing with no need additional fixing accessories
- Easy to cut on site with a knife, hand saw or drop saw
- Superior ventilation and drainage capacity compared to castellated timber battens
- Non porous
- Has a compressive strength in excess of 1,320Kpa
- Thermal break (VB20)
- Prevent thermal bridging



### WALL INSTALLATION

Reference should be made to the fastening specification of the cladding and ensure that the specified spacing, position and thread penetration through the supporting structure is suitable when using the either profile of

VENT Systems Ventilation & Drainage battens. The fastener length should be increased to suit the drainage batten thickness (10mm or 20mm) Prior to fixing the cladding, temporarily hold the batten in position with the self adhesive. Fix the cladding as soon as possible as the self adhesive is only intended as temporary for positioning the batten. Cladding must be fixed through the drainage battens into the structural frame or substrate as normal.

#### NOTES

- (1) The VENT Systems VB10 & VB20 are not structural.
- (2) As the drainage batten is combustible, it must not be used in type A & type B non-combustible wall constructions.



VB20 Venttilated Batten Vertical Cladding layout

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#### Front view - Horizontal VB20

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Side View - Vertical VB20



**Dimensions VB10** 

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#### SAMPLE SPECIFICATION

The VENT System Ventilation & Drainages batten shall be installed in accordance with product user guide.

- BRANZ Appraisal No 979
- Free open area: VB10 = 7,250mm<sup>2</sup>/Lm
- Free open area: VB20 = 14,500mm²/Lm
- Spread of Flame Index (AS/NZS 1530.3) : ≤ 6
- Heat Evolved Index (AS/NZS 1530.3) : ≤ 5
- Smoke Developed Index (AS/NZS 1530.3) : ≤ 2
- Exceeds roof load requirements of 1.32kN load.

#### DURABILITY

Although VENT Systems VB10 & VB20 can be left exposed temporarily during construction, the product may be damaged by careless handling or vandalism, and must not to be used in installations where it could be exposed to long term direct sunlight. Any damaged product should be replaced before completion. Ensure that VB10 & VB20 are is covered as soon as possible, and **not left exposed for longer than 30 days**.

#### **BUSH FIRE PRONE APPLICATIONS**

Where VENT Systems VB10 and VB20 are used and embers could be expected to be drawn into a cavity through the opening, the VB10 & VB20 must be wrapped on the exterior face by a corrosion resistant, non-combustible mesh with maximum aperture of 2mm, independently tested to meet the physical properties required by AS3959-2018 Amdt. 1.

#### HANDLING AND STORAGE

Products must be protected from direct sunlight and physical damage, and should be stored flat and under cover.

#### **HEALTH & SAFETY**

Take care when working on roofs and follow all guidance and industry good practice guidelines.

#### **PRODUCT PERFORMANCE**

The VENT Systems VB10 and VB20 performs to specification in normal building applications when installed in accordance with this product guide. The information herein is supplied in good faith and to the best of our knowledge was accurate at the time of publication. Users are advised to make their own determination as to the suitability of this information in relation to their particular purpose and specific requirements.

Criteria	Test Method	Result		
		VB10	VB20	
Free Airflow		>7,250mm²/Lm	>14,500mm²/Lm	
Spread of Flame Index (Range 0-10)	AS/NZS 1530.3	5	5	
Heat Evolved Index (Range 0-10)	AS/NZS 1530.3	5	5	
Smoke Developed Index (Range 0-10)	AS/NZS 1530.3	2	2	
Load Test	AS 4040.1	1,320Kpa	1,320Kpa	

#### **TECHNICAL DATA**

#### **DIMENSIONS & PACKAGING**

	Fascia Vent Dimension		Packaging weight and dimension			Units per pack		
	Length (mm)	Width (mm)	Height (mm)	Length (mm)	Width (mm)	Height (mm)	Weight (kg/box)	(Total linear metre)
VB10	1,800	45	10	1,805	205	85	12	50 (90Lm)
VB20	1,800	45	20	1,805	205	170	24	50 (90Lm)

