Fletcher Insulation
Building Better, Together

Product Information Sheet

DRAINAGE BATTEN

Description

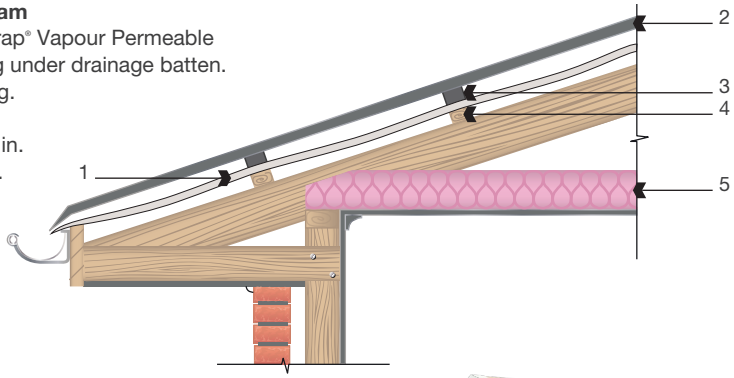
Fletcher Insulation's drainage batten is to be used where roof battens have been installed on framing and a ventilated cavity is required between the underside of the roof cladding and the vapour permeable sarking. The drainage batten is a flame retardant twin wall channel designed to facilitate air and vapour movement and create a pathway for drainage between the Sisalation® Vapawrap® Vapour Permeable Metal Roof sarking and the metal roof cladding. Constructed from high impact copolymer polypropylene for enhanced impact resistance, it is extremely tough and durable.

Application

The drainage batten is recommended for installation over Sisalation® Vapawrap® Vapour Permeable Metal Roof sarking when using on residential metal roofs with a standard pitch roof. It provides an independent separated space between the metal cladding and the Sisalation® Vapawrap® sarking, effectively reducing the risk of condensation by allowing an unobstructed drying path for condensate liquid to drain away into the gutter.

Cross-section diagram

1. Sisalation® Vapawrap® Vapour Permeable Metal Roof sarking under drainage batten.
2. Metal roof cladding.
3. Drainage batten.
4. Timber batten/purlin.
5. Pink® Ceiling batts.



Three-dimensional view

Metal roof cladding and roof batten/purlin not visible in this view.

Drainage batten benefits

- Provides drainage and a ventilation pathway under metal roofing.
- Reduces the risk of ponding on sarking behind roof battens and at eaves.
- Facilitates sarking to be installed without coming into contact with the roof cladding, consequently, reducing the risk of condensation forming under the roof sarking.
- Can be used where roofing battens have already been laid on a roof permitting quicker install of system and compliance with building standards.
- Reduces conductive heat transfer between the roof and wall cladding and the building structure.
- Will not readily melt or spread flame in the event of a fire.

For more information call 1300 654 444
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Product Data

Thickness mm	Width mm	Length mm	Pieces per pack	Product Code
40	10	1200	40	396304

Physical Properties

Property	Test Method	Result	Unit
Service temperature		-20°C to +90°C	
Specific gravity	ASTM D792	1.1	g/cc
Average GSM	Internal	2100±4%	gr/m²
Tensile strength at yield	ASTM D638	28	MPa
Flexural modulus	ASTM D790	1000	MPa
Elongation at break	ASTM D638	≥100	%
Notched izod impact at 23°C	ASTM D256	490	J/m
Heat deflection temp at 0.46Mpa at 3.2mm	ASTM D648	100	°C
Average crush strength (10mm sheet)	AS 1301.429S 2017	600	KPa
Flammability	UL94	V2	
	AS/NZS 1530.3	Passed	

Installation

Install the Sisalation® Vapawrap® Vapour Permeable Metal Roof sarking over the roof battens/purlins, taping the overlaps if needed, such as when installing on low pitched roofs. When sarking is installed, draping of the Sisalation® Vapawrap® Vapour Permeable Metal Roof sarking should be minimised to prevent ponding behind the battens with some allowance made for shrinkage – as set out in the Sisalation® Vapawrap® Vapour Permeable Metal Roof sarking product properties and the relevant installation recommendation.

When Sisalation® Vapawrap® Vapour Permeable Metal Roof sarking material is installed over the roof batten with a minimum 150mm overlap, the installation of the drainage batten creates a minimum 10mm air gap providing suitable ventilation. This will minimise condensation risks. This method is according to the 'Condensation in Buildings – Tasmanian Designers' Guide – Version 2' 2019 and the NCC 2019 requirements.

Direct fix metal roof cladding

Trim the drainage batten to a suitable length. To keep the drainage batten in place, apply double sided tape to the drainage batten prior to fixing the roof cladding. Secure the double sided tape to the sarking by running it over the full length of the batten. Install the roof sheet as per manufacturer's instructions leaving a path for drainage and air movement under the roof cladding or concealed-fix clip.

Care should be taken when fixing the roof cladding to ensure there is not any excessive compression on the drainage batten. Provided that the torque is positioned at a level that will not damage the EPDM washers on the roofing screws, then an adequate air gap should be provided. An appropriate amount of pressure should be used to the roof sheet when fixing to make sure the batten does not lift from the sarking.

Walls

When using the drainage batten in wall applications to create a drained and ventilated cavity behind the cladding, the drainage batten should be fixed vertically or horizontally and aligned with studs and noggins around windows and doors and the top and bottom plates.

Please note: If dual layering of the drainage batten is required, cut and fold the batten once to make a path of 20mm thick batten.