

Ametalin ThermalCav™ Drainage Battens

Product Code: TCDB-451200

Open-air-flow R0.26 Thermal Break Cavity Drainage Battens

For use behind roof and wall cladding in constructions where R0.2 thermal break or 20 mm air space requirements for condensation management, drainage, vapour movement, and ventilation are necessary.



Ametalin ThermalCav™ Drainage Battens is an innovative three layer, high-density polypropylene, self-adhesive, passive open air-flow strip. They are specifically designed to meet NCC 2022 R0.2 thermal break requirements for steel frame construction and create 20 mm ventilation and drainage plane while providing a hard base to fix and install to.

Ametalin ThermalCav™ Drainage Battens are ideal for use as a non-structural cavity spacer with vapour permeable and vapour barrier roof sarking and wall wraps in residential and commercial constructions where BCA R0.2 thermal separation, occasional water drainage, passive air-flow, energy efficiency and condensation control are paramount. In metal roofs, Ametalin ThermalCav™ Drainage Battens helps to locate and keep the dew point to the underside of the roof cladding preventing condensation from forming on the underside of the pliable building membrane.

Ametalin ThermalCav™ Drainage Battens are provided with a high tack adhesive backing, so there is no need for temporary fixings. Ametalin ThermalCav™ Drainage Battens can be installed in either vertical or horizontal orientation between steel framing, pliable building membranes and various cladding materials and roofing sheets. The 20 mm thickness allows for air gaps and reflective spaces for energy efficiency and ventilation requirements in NCC 2022 Vol 1, F8D5 and J4D3, and Housing Provisions 10.8.3 and 13.2.2.

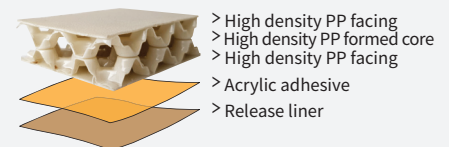
Ametalin ThermalCav™ Drainage Battens can withstand normal foot traffic and has excellent resistance to impact from cladding installation and screw pull.

Features and Benefits

- > R0.26 thermal break in-situ
- > Heat, fire and UV resistant
- > Engineered for very high compression resistance
- > Self-adhesive backing for fast, easy, fix-free installation
- > Creates a natural drainage plane for moisture to escape
- > Enhances the energy efficiency and breathability of the system
- > Termite, mould, and mildew resistant
- > Easily cut, drilled or screwed into.

Construction

Ametalin ThermalCav™ Drainage Battens is a three-layer high density polypropylene construction comprised of a formed inner PP core with 2 layers of premium high-density PP facing backed with self-adhesive backing.



Dimensions

20 mm x 45 mm x 1200 mm
(25 pcs per pack)

Nominal thickness: 20 mm

Handling and Storage

Store this product flat, in a clean, dry place in the pack provided out of direct sunlight, at all times.

Material Properties

Criteria	Reference	Result
Nominal Thickness		20 mm
Nominal Weight	<i>Per batten</i>	175 g
Thermal Conductivity	<i>ASTM C518</i>	0.0658 W/m·K
Thermal Resistance	<i>ASTM C518</i>	R 0.26
Compression Resistance		497 kPa / 50 mm x 50 mm
Adhesive		Acrylic Pressure Sensitive
Early Fire Indices	<i>AS 1530.3</i>	Pass
Long term heat resistance		90°C

Specification Notes

When specifying state the following:

Product Name: Ametalin ThermalCav™ Drainage Battens

The drainage batten to be installed shall be 20 mm high-density, UV and fire rated polypropylene and XPE open air-flow Ametalin ThermalCav™ Drainage Battens. Material R-value R0.26.

Complete details including installation instructions are available on our website: www.ametalin.com

Installation

Ametalin ThermalCav™ Drainage Battens are typically installed to the exterior side of the structural/ steel framing of building envelope after installing the pliable building membrane.

It is recommended to install Ametalin ThermalCav™ Drainage Battens at the same time as the outer roof or wall cladding; this will ensure optimal durability and performance.

Fixings are intended to penetrate through the Ametalin ThermalCav™ Drainage Battens and into the structural framing member below. Ensure that any fixings are length adjusted to meet depth requirements for that particular fixing method.

1. Pliable building membrane is installed to the roof or wall frame construction in accordance with AS 4200.2:2017.
2. Locate the structural member to which the Ametalin ThermalCav™ Drainage Battens is to be applied to. eg: studs, plates, rafters, purlins etc
3. Ensure that the surfaces to be adhered to are clean, dry, and free from dirt, grease, oil and other contaminants.
4. Peel back the release liner from the strip.
5. Centre the Ametalin ThermalCav™ Drainage Battens in line with the supporting framing member.
6. Apply the strip, ensuring that maximum surface contact is achieved by applying firm pressure by hand.
7. Install the specified cladding system without delay.

Performance insulation for a greener world

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