



# CAVIBAT CAVITY BATTEN TECHNICAL SPECIFICATION

## Cavibat Cavity Batten

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## 1.0 General Information

### 1.1 Introduction

Cavibat is an extruded fluted batten designed for use as a non-structural cavity batten in cavity-based wall cladding systems.

The Cavibat Cavity Batten creates an 18 mm cavity, providing a secondary means of weather resistance by separating the cladding from the external wall framing, as well as providing an unobstructed path for any occasional ingress of water that may get past the external skin to drain to the exterior of the building.

### 1.2 BRANZ Appraisal

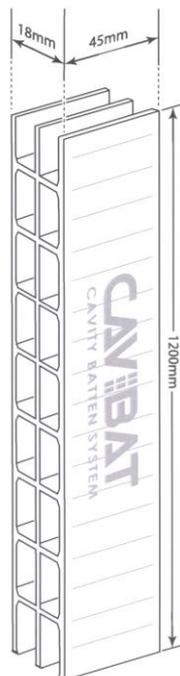
The Cavibat Cavity Batten has been appraised by BRANZ. Refer to Appraisal Certificate No. 524 (2007).

### 1.3 Cavibat Cavity Battens

Cavibat Cavity Battens are manufactured from extruded polypropylene. The battens are cut after extruding to a finished size of approximately 45 mm wide by 18 mm thick. The battens are supplied in 1200 mm long lengths.

### 1.4 Handling and Storage

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



## 2.0 Design Information

### 2.1 Design Responsibility

The Specifier for the project must ensure that Cavibat installation in accordance with the guidance given within this Literature is suitable for the intended application and that additional detailing is provided for specific design or any areas that fall outside the scope and specifications of this Literature.

### 2.2 Scope

This Literature covers the use of the Cavibat Cavity Batten as a non-structural cavity batten for use with non-structural wall cladding systems on buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- with cavity-based wall cladding systems complying with NZBC Acceptable Solution E2/AS1 or a valid BRANZ Appraisal Certificate that specifies a nominal 20 mm (minimum 18 mm) drained and vented cavity; and,
- situated in NZS 3604 Building Wind Zones up to, and including 'Very High'.

Cavibat Cavity Battens can also be used on buildings subject to specific weathertightness design. Weathertightness design and detailing of these installations is the responsibility of the designer and is outside the scope of this Literature. The designer must ensure that the design meets the relevant performance requirements of the NZBC.

Note: Cavibat Cavity Battens are not suitable for use where pressure equalized cavities are required.

### 2.3 Building Regulations

The Cavibat Cavity Batten if designed, used and installed in accordance with the statements and conditions of this Literature and the supporting BRANZ Appraisal, will meet the following provisions of the New Zealand Building Code:

- Clause B1 Structure
- Clause B2 Durability
- Clause E2 External Moisture
- Clause F2 Hazardous Building Materials

### 2.4 Drained and Vented Cavities

Cavibat Cavity Battens can be used to form drained cavities as specified by NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.2, except that Cavibat Cavity Battens can also be installed continuously in a horizontal orientation as ventilation and drainage is permitted through the batten flutes.

For installations on buildings within the scope of this Literature there is no requirement to restrict airflow at external and internal corners. Cavibat Cavity Battens alone will not prevent airflow into the roof space. The cavity must be sealed off from the roof space to meet code compliance with NZBC Clause E2.3.5.

Cavibat Cavity Battens do not provide vermin proofing to the bottom of the drained cavity. A cavity vent strip complying with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.3 must be installed as part of the selected cladding system.

## **2.5 Product Compatibility**

Cavibat Cavity Battens are compatible with wood based, fibre cement, polystyrene based, metal and uPVC cladding products and kraft paper based and synthetic building wraps.

## **2.6 Building Wrap Support**

Where the Cavibat Cavity Battens are installed vertically or horizontally at greater than 450 mm centres, a building wrap support in accordance with NZBC Acceptable Solution E2/AS1 Paragraph 9.1.8.5 must be installed over the building wrap behind the cavity battens to prevent bulging of the building wrap into the drainage cavity.

## **2.7 Structure**

The Cavibat Cavity Batten must be treated as a non-structural packer only. Fixing lengths for the cladding material must be as required for non-structural timber cavity battens. If the Cavibat Cavity Batten is to be used with a cladding system that was originally direct fixed, the fixing length must be increased by a minimum of 18 mm to ensure frame penetration depths are maintained.

## **2.8 Framing Tolerances**

In order to achieve an acceptable wall finish, it is imperative that framing is straight and true. Framing tolerances must comply with the requirements of NZS 3604:1999.

## 3.0 Installation Information

### 3.1 System Installation

The selected building wrap and flexible sill and jamb tape system must be installed in accordance with the manufacturer's instructions prior to the installation of the Cavibat Cavity Battens.

Cavibat Cavity Battens may be cut on site with a knife or hand saw. The battens must be installed in continuous lengths and may be installed vertically and/or horizontally to suit the requirements of the selected cladding.

Where studs are installed at maximum 600 mm centres, Cavibat Cavity Battens may be installed vertically at 300 mm centres and horizontally along the top and bottom plates (Figure 1). Alternatively, the battens may be installed vertically at 600 mm centres following the studs and horizontally along the top and bottom plates and dwangs (Figure 2).

Where studs are at greater than 450 mm centres, a building wrap support must be installed over the building wrap.



Figure 1

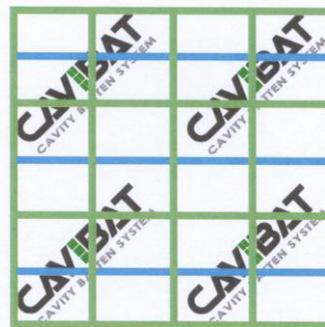


Figure 2

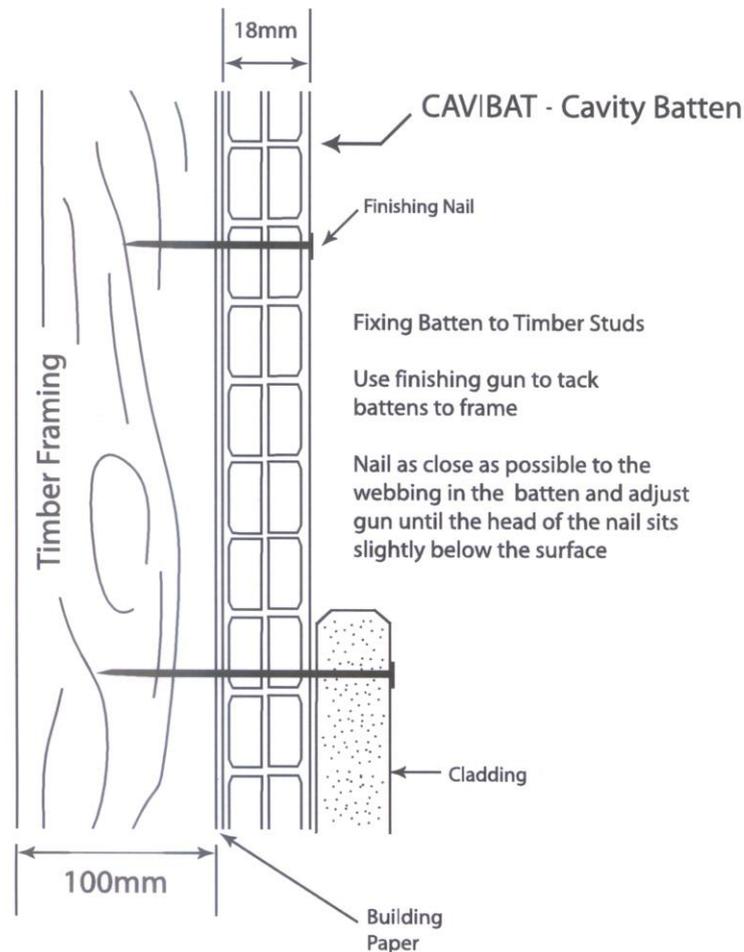
### 3.2 Cavibat Cavity Batten Fixings

Cavibat Cavity Battens must be installed over the building wrap to the wall framing. The cavity battens must be fixed in place with 40 x 2.5 mm hot-dip galvanised flat head nails or stainless steel finishing brads at approximately 400 mm centres. Nail as close as possible to the webbing in the batten. When using finishing brads, adjust the nail gun so that the head of the brad sits slightly below the surface of the batten.

Note: The batten has one face lightly thicker than the other. For best results, keep the thicker face to the exterior.

### 3.3 Cladding Installation

As noted by Paragraph 2.7, the Cavibat Cavity Batten must be treated as a non-structural packer only. Fixing lengths for the cladding material must be as required for non-structural timber cavity battens. Cladding fixings must be installed through the cavity batten onto the studs and dwangs in accordance with the instructions of the cladding manufacturer.



### 4.0 Maintenance

No maintenance is required for the Cavibat Cavity Batten. Regular checks must be made of the wall cladding, flashings and penetrations to ensure they are maintained weathertight and continue to perform their function, to ensure that water will not penetrate the cladding.

### 5.0 Health & Safety

There are no specific health and safety requirements for the Cavibat Cavity Batten, however safe use and handling procedures for the components that make up the cladding system must be followed in accordance with the requirements of the relevant manufacturer's Technical Literature.