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EZpanel Cavity System

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Abbreviation
Appraisal number 649
Valid from
27/05/2020

Information provider
BRANZ Limited
Information type
BRANZ Appraisal
Format
PDF

Description

The EZpanel Cavity System is a cavity-based external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used. The system consists of autoclaved aerated concrete (AAC) panels (EZpanels) fixed over polystyrene battens to form a 20 or 40 mm cavity, or timber batten blocks to form a 40 mm cavity.

The EZpanel Cavity System is finished with either a cement-based option or an acrylic-based option. The cement-based option consists of a base coat of MLC plaster followed by either a cement-based finishing plaster or an acrylic-based finishing plaster. The acrylic-based option consists of a flanking coat of MLC plaster followed by a mesh coat of Powaflex acrylic plaster and an acrylic-based finishing plaster. Both base coat options are finished with an acrylic exterior paint system.

The system incorporates a primary and secondary means of weather resistance (first and second line of defence) against water penetration by separating the cladding from the external wall framing with a nominal 20 mm or 40 mm drained cavity.

Scope

The EZpanel Cavity System has been appraised as an external wall cladding system for buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- situated in NZS 3604 Wind Zones up to, and including 'Extra High'.

The EZpanel Cavity System has also been appraised for weathertightness and structural wind loading when used as an external wall cladding system for buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- constructed with timber and steel framing subject to specific engineering design; and,
- situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 2.5 kPa.

The EZpanel Cavity System must only be installed on vertical surfaces (except for tops of parapets, sills and balustrades, which must have a minimum 10° slope and be waterproofed in accordance with the Technical Literature).

The system is appraised for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. (The Appraisal of the EZpanel Cavity System relies on the joinery meeting the requirements of NZS 4211 for the relevant Wind Zone or wind pressure.)

Installation of components and accessories supplied by Specialized Construction Products Ltd, its certified distributors and approved applicators must be carried out only by Specialized Construction Products Ltd approved applicators.

For assistance with locating previous versions, please contact the information provider.

Notes/comments

This Appraisal replaces BRANZ Appraisal No. 649 (2009).

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