

## Product Technical Statement (PTS)

### Hermpac Board and Batten Weatherboard Cavity System

#### Product Description and Use

The Hermpac Board and Batten 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 vertically fixed Hermpac boards and battens, ventilated cavity battens, flashings and accessories and is finished with an exterior grade quality coating to Hermpac specifications.

Hermpac Board and Batten weatherboards are manufactured from Canadian Coastal Western Red Cedar. Selected profiles are available in DuraLarch and Ashin-Dura.

#### New Zealand Building Code

The Hermpac Board and Batten Cavity System, if used, designed, installed and maintained in accordance with the statements and conditions of Appraisal No. 828 (2015) and the Technical Literature, will meet the following provisions of the NZBC:

**Clause B1 STRUCTURE:** Performance B1.3.1, B1.3.2 and B1.3.4 for loads arising from self-weight, wind, impact and creep. [i.e. B1.3.3 (a), (h), (j) and (q)].

**Clause B2 DURABILITY:** Performance B2.3.1 (b) 15 years and B2.3.2.

**Clause E2 EXTERNAL MOISTURE:** Performance E2.3.2.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1.

The Hermpac Board and Batten Cavity System is an Alternative Solution in terms of New Zealand Building Code compliance.

#### Evidence of Compliance

Hermpac provides this PTS to demonstrate that it has met its responsibilities under s14G of the Building Act. Hermpac is able to support claims of performance, based on the technical evidence provided within BRANZ Appraisal No. 828 (2015) Hermpac Board and Batten Cavity System.

#### Scope of Use

The Hermpac Board and Batten Cavity System is suitable for use as an external wall cladding system for buildings within the following scope:

Stain finished weatherboards with crown/rose/flat head nails. Paint finished DuraLarch and Ashin-Dura weatherboards fixed with annular grooved jolt/crown/rose/flat head nails. Paint finished Western Red Cedar weatherboards fixed with annular grooved crown/rose/flat head nails:

- the scope limitations of NZBC Acceptable System E2/AS1, Paragraph 1.1; and,
- constructed with timber framing complying with the NZBC; 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'.

Any stain or paint finished weatherboards if fixed with annular grooved flat/crown/rose head nails only, for weathertightness and structural wind loading for buildings within the following scope:

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

CedarOne or other paint finished Western Red Cedar weatherboards if fixed with annular grooved jolt head nails:

- the scope limitations of NZBC Acceptable System E2/AS1, Paragraph 1.1; and,
- constructed with timber framing complying with the NZBC; 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 Medium when nogs/dwangs are at maximum 480 mm centres, and NZS 3604 Wind Zones up to, and including Very High when nogs/dwangs are at maximum 400 mm centres.

#### Other Conditions or Limitations

The Hermpac Board and Batten Cavity System must only be installed vertically on vertical surfaces.

The Hermpac Board and Batten Cavity System is designed for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. The Hermpac Board and Batten Cavity System relies on the joinery meeting the requirements of NZS 4211 for the relevant Wind Zone or wind pressure.

#### Maintenance

Annual inspections must be made to ensure that all aspects of the cladding system, including flashings remain in a weatherproof condition. Any damaged areas or areas showing signs of deterioration which would allow water ingress, must be repaired immediately. Sealant, coatings, flashings or the weatherboards must be repaired in accordance with the relevant manufacturer's instructions.

Regular cleaning (at least annually) of the surface finish with water and a mild detergent is recommended to remove grime, dirt and organic growth, to maximise the life and appearance of the cladding.

Recoating will be necessary throughout the life of the cladding system. Re-staining must be carried out every 2-3 years; re-coating of a paint finish must be carried out every 7-10 years (in

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accordance with the specified manufacturer's instructions). Care must be taken to ensure bottom edges are well covered and penetrated.

NB: Re-staining will be required more frequently on exposed northern and western facing walls.

### Technical Literature

The following Technical Literature must be followed to ensure compliance when the Hermpac Board and Batten Cavity System is used:

#### Installation Specification references

Board and Batten Cavity System Installation Specification

[www.hermpac.co.nz/download-library/](http://www.hermpac.co.nz/download-library/)

#### Construction Drawing Detail references

Board and Batten Cavity System Drawings

[www.hermpac.co.nz/download-library/](http://www.hermpac.co.nz/download-library/)

#### Support Documentation references

BRANZ Appraisal No. 828 (2015)



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**Hermpac**

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