



AccreditMark

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Version: v1.0

Date of issue: 26 August 2020

Valid until: 31 August 2021

Product Technical Statement

Issued by AccreditMark Limited

Health Based Building Limited **MAGNUM[®]**
BOARD

16mm Bevel-back Weather Board

1. Product supplier

Health Based Building Limited (HBB)

www.healthbasedbuilding.com

2. Product name

Magnum Board 16mm Bevel-back Weather Board

2.1. Approved components:

- 2.1.1. Magnum Board 16mm Bevel-back Weather Board;
- 2.1.2. Simpson Strong Tie stainless steel #2 square drive screws or 65 x 2.5-2.8mm stainless steel coil or cassette nails for timber framing
- 2.1.3. Simpson Strong Tie stainless steel #2 square drive screws for steel framing;
- 2.1.4. Mapei Mapeflux PU45 adhesive.

2.2. Accessory components:

- 2.2.1. Off the shelf components such as PVC starter strips, trim, mouldings, flashings, soakers, and soffit linings available from building material supply outlets.

3. Product description

- 3.1. Magnum Board 16mm Weather Board is a 16mm thick, high density, fibre reinforced Magnesium Oxide (MgO) cladding material for residential and commercial buildings.
- 3.2. It is supplied as 3.6m long, 180mm wide bevel back boards, produced from 16mm thick MgO material.
- 3.3. Each board has a sanded back face and smooth front face ready for application of a paint coating system.

4. Intended use

Magnum Board 16mm Weather Board is intended for use as an exterior cladding product for installation over timber or steel framing using direct or cavity fixed methodologies.

5. Scope of use

- 5.1. Exterior use only.
- 5.2. For installation over new or existing timber framing that complies with NZS3604:2011 Timber Framed Buildings.
- 5.3. For installation over new or existing light gauge steel framing compliant with NASH Standard for Residential and Low-Rise Steel Framing Parts 1 & 2.
- 5.4. Can be installed:
 - 5.4.1. Over rigid and non-rigid air barrier systems;
 - 5.4.2. Direct to framing;
 - 5.4.3. On a cavity system fixed to framing.

6. Limitations and conditions

- 6.1. Suitable for use in wind zones up to and including Extra High (NZS3604:2011)
- 6.2. Limited to buildings up to 3 storeys, or 10m, in height.
- 6.3. The approved and specified components listed in Section 2.1 must be used.
- 6.4. The accessory components listed in Section 2.2 must be used as detailed in HBB technical drawings.
- 6.5. Magnum Board 16mm Weather Board has not been assessed for load bearing properties or use as a bracing material.
- 6.6. Prior to installation, Magnum Board 16mm Weather Board must be stored and handled in accordance with HBB Technical Document #044AU.
- 6.7. The designer, specifier and or installer must ensure Magnum Board 16mm Weather Board is appropriate for the intended application and the timber or steel framing is adequate for installation of the product.
- 6.8. After installation, Magnum Board 16mm Weather Board must not be exposed to sun or rain for more than 30 days.
- 6.9. Magnum Board 16mm Weather Board should only be installed when the ambient air temperatures is below 35°C and above 1°C.
- 6.10. Dust should be controlled using a HEPA based extraction or vacuum system.
- 6.11. This technical statement is only valid for use or installation of Magnum Board 16mm Weather Board that complies with:
 - 6.11.1. The HBB Technical Document #044AU;
 - 6.11.2. HBB technical drawings;
 - 6.11.3. Any conditions, limitations or requirements stated in this document.

7. Building code and performance requirements

Magnum Board 16mm Weather Board complies with the following clauses and requirements of the New Zealand Building Code (NZBC):

B1 Structure

B1.3.2 – Adequate mechanical performance and physical properties, including resistance to impacts likely to be encountered during use.

B1.3.3 (h) – Withstands wind loads up to and including Extra High.



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B2 Durability

B2.3.1 (b)(i) – Satisfies 15-year durability performance requirements.

B2.3.2 (a) – All components have the same durability to meet B2.3.1 (b) (i) requirements.

E2 External Moisture

E2.3.2 – Exterior walls prevent the penetration of water that could cause undue dampness.

F2 – Hazardous Building Materials

F2.3.1 - Does not emit harmful concentrations of gas, liquid, radiation, or particles.

8. Evidence of compliance against performance requirements

8.1. In-service use with no reported failures:

8.1.1. United States, China - 15 years

8.1.2. Canada, New Zealand - 5 years

8.2. Laboratory test reports:

8.2.1. Mechanical and physical properties;

8.2.2. Assessment of weather tightness and water resistance

8.2.3. Measurement of weathering resistance

8.2.4. Fire performance and assessment

8.3. Technical data sheets (TDS)

8.4. Safety data sheets (SDS)

8.5. Expert review and or opinion

8.6. Appraisal or product certificates

9. Technical documentation and product support

9.1. Website:

www.healthbasedbuilding.com

9.2. Technical and installation details, warranty and maintenance information are available from HBB Technical Document #044AU, Version 3.0.

9.3. HBB is responsible for keeping technical information up to date and notifying AccreditMark Limited of any changes.

10. Quality assurance

10.1. Product Quality Plan (PQP) - HBB Magnum Board PQP, Version 2.2 sets out the quality management requirements for Magnum Board 16mm Bevel-back Weather Board.

10.2. The manufacturing process for Magnum Board 16mm Bevel-back Weather Board is subject to third party review and meets International Code Council (ICC), Underwriters Laboratory (UL), Canada Construction Materials Centre (CCMC) and European Certification (CE) requirements.

11. Warranty

11.1. When properly installed and maintained, Magnum Board 16mm Weather Board has a 30-year limited warranty from the date of original purchase.

11.2. The installer must complete a checklist for HBB to approve prior to the warranty being issued.

12. Other considerations

12.1. Magnum Board 16mm Weather Board must be protected from sun, rain, freezing cold and dirt prior to and during installation.

12.2. Magnum Board 16mm Weather Board must be protected with a paint coating system as soon as practicable after being installed.

12.3. Gloves, hearing, eye, and respiratory protection should be used when handling and installing the product.

12.4. Surplus material and contaminants from installation should be disposed of in accordance with Government and local regulations.

12.5. Magnum Board 16mm Weather Board has been tested and categorised as non-combustible, Group Number 1.

13. Conditions of this Product Technical Statement (PTS)

13.1. The information contained in this document is current as at the date of issue and AccreditMark Limited has used all reasonable endeavours to ensure the accuracy and reliability of the information.

13.2. AccreditMark Limited assumes no responsibility or liability for any inaccuracies, omissions, or errors in this document, nor for any actions taken in reliance on this information.

13.3. The information contained in this document may be changed without notice. Visit the supplier's website in Section 9. for the most up to date information.

13.4. Information contained in this document is specific to the product named in Section 2. and does not apply to any other HBB product.

13.5. The content of this PTS is subject to annual review by AccreditMark Limited