



Product Technical Statement from BEAL



PTS # 2219

EXPIRY DATE: 31 Mar 2023

The Magnum Board Shiplap Weatherboard System



Product

1.1 The Magnum Board Shiplap Weatherboard system from Health Based building Ltd is a proven means of providing protection of timber or light gauge steel framing.

1.2 The Magnum Board Shiplap Weatherboard system (MBSWBS) is a mineral sheet based Shiplap Weatherboard to be used over timber framing or light gauge steel framing, for use in wind speeds up to and including 70m/sec. The product provides a tried and proven traditional cladding for residential and light commercial use.

1.3 The MBSWBS consists of Magnum Board sheets with specified nail fixings, using the Thermakraft Thermaflash and Premium Jointing Tape flashing systems to provide an easy to install barrier to moisture and high winds.

1.4 The MBSWBS is to be applied by persons trained and approved by Health Based Building Ltd, within the scope and limitations described in this Product Technical Statement.

New Zealand Building Regulations

2.1 In the opinion of BEAL, the MBSWBS, when designed, installed and maintained in accordance with the statements and conditions of this Product Technical Statement, will meet the following performance requirements of the New Zealand Building Code:

2.2 Clause B1 STRUCTURE

Performance B1.3.3(h) resistance to high winds.

2.3 Clause B2 DURABILITY

Performance B2.3.1(b) 15 years for new work.

2.4 Clause E2 EXTERNAL MOISTURE

Performance E2.3.2. Walls incorporating the MBSWBS system contribute to meeting this requirement.

2.5 Clause F2 HAZARDOUS BUILDING MATERIALS

Performance F2.3.1. The MBSWBS system meets this requirement and will not present a health hazard to people.

2.6 The MBSWBS has been appraised as an Alternative Solution in terms of New Zealand Building Code Compliance.

2.7 This Product Technical Statement is in conformance with the requirements of SG14 of the Building Act 2004.

Scope and Limitations

Applicant:



Health Based Building Ltd.

1062 Colombo St, Edgware

Christchurch, 8014

Phone 03 366 4044

Email: enquiries@healthbasedbuilding.co.nz

Web: www.healthbasedbuilding.com

Assessed by:

BEAL

2A Plimmerton Drive

Plimmerton, Porirua, NZ

P: +64 4 233 6661

E: bts@beal.co.nz

www.beal.co.nz

3.1 The MBSWBS has been appraised for use as a 'Shiplap Weatherboard' for the protection of timber or LGS framing or concrete structures that are of sound construction and in compliance with the NZBC;

3.2 The MBSWBS is suited for use as a cladding within the following scope:

- ◆ Attached either directly to or through cavity battens, to either a rigid air barrier, or over a flexible underlay, to new timber and or light gauge galvanized steel framing, designed and constructed to comply with the requirements of the NZBC; and,
- ◆ Situated in wind zones up to, and including 70m/sec.

3.3 The MBRABS shall be installed only by suitably experienced and competent tradespersons familiar with the manufacturer's technical and installation literature.

3.4 The owner of the building is responsible for the proper maintenance of the product described in the Maintenance and Warranty documentation provided by HBB.

Technical Literature

4.1 The MBSWBS Technical and Installation Guide v1.0 (dated July, 2022) must be read in conjunction with this Appraisal. All aspects of design, use, installation and maintenance contained within the Technical Manual and scope of this Product Technical Statement must be followed.

4.2 For a copy of this Technical Literature and any subsequent updates please refer to www.healthbasedbuilding.com

Basis of the assessment by BEAL

Assessments

8.1 The following assessments of the MBSWBS have been undertaken by BEAL:

- > Structural testing of fixings used with the 16mm Magnum shiplap weatherboards, together with an engineer's review, to demonstrate compliance with performance clause B1.3.3(h);
- > Review of the design and performance of the Magnum Bevel-back weatherboards, already in service and having a BEAL Appraisal to demonstrate compliance with performance clause B2.3.1(b);
- > Review of the Rigid Air Barrier system used behind the Magnum shiplap weatherboards which contributes to the MBSWBS complying with performance clause E2.3.2;
- > Review of the chemical and technical information supplied by HBB Ltd. To establish compliance with performance clause F2.3.1;

In-service History

8.3 The MBSWBS is a variation of the design used for the Magnum Board Bevel-back Weatherboard System, which has an in-services history in New Zealand and performed satisfactorily for the past 45 years in New Zealand and other parts of the world, in a wide range of conditions.

8.4 The installation of the MBSWBS was also evaluated in practical building situations assessing the

following;

- Ease of installation
- Potential risks of non-performance when being installed
- Any external factors that could affect the quality of the installed product

Quality

8.7 The manufacture of the Magnum Board is subject to a strict factory QA process.

8.8 The overall system has been assessed by BEAL regarding the history and nature of the materials used and found to be satisfactory.

8.8 The quality of materials, components and accessories supplied by HBB Ltd. is managed through the use of a Building Product Quality Plan.

8.9 The HBB Building Product Quality Plan, based on a end to end quality plan, ensures continuous conformance with the quality requirements from purchase to application by experienced and approved applicators.

8.10 HBB Ltd.'s Building Product Quality Plan is reviewed and audited at least annually by BEAL or appointed agent.

8.11 Designers are responsible for the substructure design, and building contractors are responsible for the quality of construction of the substructure or new substrate in accordance with the instructions of the substrate manufacturer and this Appraisal Certificate.

8.12 Building owners are responsible for the maintenance of the MBSWBS in accordance with the manufacturer's instructions and this Product Technical Statement.

Authorised Signatory,



C R Prouse - Director

BEAL (Building Element Assessment Laboratory Limited)

