CodeMark

Certificate no: CMNZ70179
Version: 0
Original issue date: 11 August 2025
Version date 11 August 2025

Product Certificate

Enviro™ 50 mm AAC Intertenancy Wall System

1. Certificate Holder Details

MASONS
Designed Smart, Built Tough.

Masons NZ Ltd
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New Zealand
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Ph: +64 9 414 7551
www.mpb.co.nz

2. Product Certification Body

Bureau Veritas Australia Pty Ltd
11/500 Collins Street
Melbourne VIC 3000 Australia
product.certification@bureauveritas.com
Ph: 1800 855 190
www.bureauveritas.com.au

Complaints: The complaints process for this certificate can be found here: www.bureauveritas.com.au/your-feedback

Sam Guindi – Bureau Veritas Product Certification Manager

3. Description of Building Method or Product

Name of the product or method in Aotearoa New Zealand, including any brand names used. Description of what it is and the components that make up any system and its physical attributes including the materials and make-up of the product, where applicable. Matters that should be taken into account in the use or application of the building method or product can be found in item 6. Conditions and Limitations of Use. Continuation of description can be found in item 10 – Supporting Information about Description. [Delete if not applicable]. The building method's or building product's catalogue or model identification number or numbers or other unique identifiers that might be used to identify the building product or building method..

Enviro™ 50 mm AAC Intertenancy Wall System consists of a central single layer of Enviro™ 50 mm AAC panel fixed between single stud timber or steel framing walls on each on side of the AAC panel, with a minimum gap of 20 mm between the framing and the AAC panel, 75 mm insulation in each wall cavity and lined with 10 mm minimum thickness plasterboard.

4. Intended use of Building Method or Product

Intended use of the building method or product as described in the product manual and other instructional materials. A statement of the function or purpose of the building method or product. Continuation of intended use can be found in item 11 – Supporting Information about Intended use. [Delete if not applicable]

The Masons Intertenancy Wall system is designed for use as an internal fire-rated and acoustic separation between tenancies.

5. New Zealand Building Code Provisions

The performance clauses of the New Zealand Building Code that are relevant to the intended use and with which the building method or product complies or contributes to (where used as part of a system).

How the building method or product complies or contributes can be found in item 8. Basis for Certification. Any qualifications on the extent of that compliance can be found in item 6. Conditions and limitations of use.

B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, f), B1.3.4

B2 Durability: Performance Clauses B2.3.1(a), B2.3.2

C3 Fire affecting areas beyond the fire source: Performance Clauses C3.4(a), C3.6

C4 Movement to place of safety: Performance Clauses C4.3 (contributes to)

C6 Structural stability: Performance Clauses C6.2, C6.4

F2 Hazardous building materials: Performance Clauses F2.3.1

G6 Airborne and impact sound: Performance Clauses G6.3.1

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6. Conditions and Limitations of Use

The building method or product's use is to be in accordance with the installation instructions and requirements against which the building method or product was assessed.

Conditions or limitations of conformity for the performance requirements the building method or product is compliant with, including any requirements for people with the qualifications and skills to install or use the building method or product, any known or demonstrated situations where the building method or product should not be used. A statement as to whether there are any matters that should be taken into account in the use or application of the building product or building method and, if so, what those matters are.

1. The Enviro™ 50 mm AAC Intertenancy Wall System is certified for use in buildings:
   a) designed
      i. timber framed in accordance with NZS3604, or
      ii. light steel framed in accordance with NASH Standard Part 2, or
      iii. specifically engineering designed in accordance with B1/VM1, and
   b) with risk groups SH, SM, SI, CA, WB, and VP (as defined in Acceptable Solutions C/AS1 and C/AS2) where the building is sprinklered or un-sprinklered (except risk group WB for un-sprinklered steel framed buildings), and
   c) up to and including three storeys high and 10 m maximum height, and
   d) located
      i. in any seismic zone (as specified in NZS3604:2011), and soil classification types listed in AS/NZS1170, and
      ii. in any exposure zone (excluding microclimates) (as specified in NZS3604).

2. The Enviro™ 50 mm AAC Intertenancy Wall System shall:
   a) be installed in accordance with the Enviro™ 50 mm AAC Intertenancy Wall System Installation Guide V5.2 July 2025, and
   b) be lined with minimum 10 mm plasterboard, and
   c) incorporate R2 minimum cavity insulation of at least 9 kg/m3 density and at least 75 mm thick, and
   d) not impose any structural load on the AAC centre panels other than the weight of other AAC panels stacked above them, and
   e) not have any penetrations.

3. This Certification does not cover:
   a) the building adjacent to the intertenancy walls, which shall be designed as stand-alone separate buildings with respect to the imposed structural actions for each building, or
   b) compliance of the framed walls with respect to structural actions, except for seismic loads imposed by the AAC central panel, or
   c) other components as part of the system not manufactured by Masons which shall be installed in accordance with the manufacturers standard and specifications.

7. Health and Safety Information

Health, safety, and well-being declarations associated with installation, maintenance, and use of the building method or product, and their specific editions and dates necessary to ensure the performance requirements of clauses F1 to F9 of the Building Code can be met.

The compliance with any manufacturer's installation instructions, maintenance, OH & S statements, MSDS's and other Health and Safety declarations will provide the necessary Health and Safety Information pertaining to the product.

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8. Basis for Certification

How the performance requirements in the Building Code were met for each of the provisions. Where used as part of a system, the specific contribution to compliance.

B1 Structure - By comparison with Verification Method B1/VM1

B2 Durability - By testing and comparison with Verification Method B2/VM1 and Acceptable Solution B2/AS1

C3 Fire affecting areas beyond the fire source - By testing and comparison with Acceptable Solutions C/AS1 and C/AS2

C4 Movement to place of safety - By testing and comparison with Acceptable Solutions C/AS1 and C/AS2

C6 Structural stability - By analysis and comparison with Verification Method B1/VM1

F2 Hazardous building materials - By comparison with Building Code performance clause F2.3.1

G6 Airborne and impact sound - By analysis and comparison with Acceptable Solution G6/AS1

9. Supporting Documentation for Certification

Reference to any acceptable solutions, verification methods, New Zealand Standards, or other compliance pathways referenced against each individual performance requirement the building method or product is compliant with, and their specific version and date. Reference to documents describing tests and evaluations and any other documents relied on for certification or used to prove compliance, including their full title, specific version and date.

1. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B1 Structure First edition (Amendment 21), 2 November 2023.
2. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability Second edition (Amendment 12), 28 November 2019.
3. C1 - C6 Protection from Fire Acceptable Solution C/AS1 Protection from fire for buildings with sleeping (residential) and outbuildings (risk group SH) Second Edition, 2 November 2023.
4. C/AS2 Acceptable Solution for Buildings other than Risk Group SH for New Zealand Building Code Clauses C1-C6 Protection from Fire First edition (Amendment 3), 2 November 2023.
5. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause F2 Hazardous building materials First edition (Amendment 3), 1 January 2017.
6. Compliance Document for New Zealand Building Code Clause G6 Airborne and Impact Sound, First edition (Amendment 2), 1 Dec 1995.
7. NZS3604:2011 Timber framed buildings.
8. AS/NZS1170:2002 Structural Design Actions.
9. NASH Standard Part 2: 2019 Light Steel Framed Buildings.
10. Silvester Clark Structural Design Statement Enviro™ 50mm AAC Intertenancy Wall System, 21 November 2024.
11. Fire TS Lab Test Report #PF22049, Fire resistance tests for non-loadbearing vertical separating element - wall, 5 October 2022.
12. Fire TS Lab Assessment Report #AR23025, Likely performance of Enviro™ 40 mm AAC Intertenancy Wall System if tested to AS1530.4:2014.
13. Marshall Day Report No. Rp 001 200796, Enviro™ AAC Panel, 23 March 2021.

14. Sharp and Howells Report Test Report No. 19-0125B Testing of Reinforced Autoclaved Aerated Concrete Members to AS5146.2, 17 October 2019.
15. Material Safety Data Sheet - ENVIRO AAC PANEL, V1.1 July 2025.
16. Sylvester Clarke Structural Calculations for Masons IT Wall Building Code Compliance at New Zealand for Masons Plastabrick Limited, 26 May 2025.
17. Enviro™ 50 mm AAC Intertenancy Wall System Installation Guide V5.2 July 2025.

10. Supporting Information About Description (Optional)

Any supporting information for section 3.

The following components comprise the Masons AAC Intertenancy Wall System:

Supplied by Masons:

Enviro™ 50mm AAC Panel and Enviro™ C Channel and Fire Brackets
- ENVPAN 50mm Enviro AAC Panel 2200mm x 600mm
- CCHANNEL Galvanised Steel C-Channel 3048mm long (35x51x35)
- RANGLEBKT Aluminium Bracket 75mm x 45mm x 50mm

Fixings
- IT-SR17HWF12353 OR 12g - 11 x 35 Woodscrew bag 100 (timber framing)
- IT-SHWF12353 12g - 11 x 25mm min self-drillers bag 100 (steel framing)

Fire seal void filler
- MINWOOL50 Mineral Wool Insulation 50mm x 1200mm x 600mm

Fire and acoustic sealer
- FIRECRYL310 Firecryl Sealant Acrylic Sealant 310ml White
- FIRECRYL310 Firecryl Sealant Acrylic Sealant 600ml Grey

Panel mortar
- PBEJG25kg Enviro Panel Jointing Glue 25kg

Supplied by others:

Wall insulation
- Noncombustible insulation such as glass fibre batts of equivalent R2.0 minimum

Framing
- Structural framing - Double - 2/90 x 45 mm SG8 timber studs at 2.2 m centres or double - 2/76mm x 0.7BMT steel studs
- Intermediate framing - as required to support gypsum board wall lining
- Cold Galv spray to seal cut ends of steel reinforcing in Enviro panel
- M8 x 75mm Dyna bolts

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11. Supporting Information About Intended Use (Optional)

Any supporting information for section 4.

N/A

12. Supporting Information About Conditions and Limitations of Use (Optional)

Any supporting information for section 6.

N/A

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. Please find the register here.

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.