

An acoustic and fire rated wall system for use in medium and high density buildings

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either an independent assessment or reference to an industry-based scheme



Masons confirms that this minimum level of assurance has been met or exceeded by the following:
the Building Business
[PASS - 19164](#)

Technical Statement

Product Description

The system utilizes the acoustic and fire stopping benefits of the Masons Enviro™ AAC panel (Autoclaved Aerated Concrete) stood between timber or steel framed walls and lined with mineral wool insulation, and standard plasterboard. It easily meets or exceeds the NZBC requirements for an Intertenancy Wall, with a fire rating of 90/90/90 on walls up to 10m in height, and an estimated laboratory acoustic STC performance of 64 dB.

- 50mm panel - total wall thickness 250mm
- FRL of 90/90/90 with STD 10mm Plasterboard
- Acoustic Performance STC 64
- Discontinuous construction
- Quick to install - 80m+ per day
- Unaffected by weather during construction
- No specialist installers required
- Cost effective

Scope of use

Scope and limitations

For scope of use, limitations, conditions and statement of building code compliance, refer to the Masons Intertenancy Wall System PASS™ Statement in downloads section.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

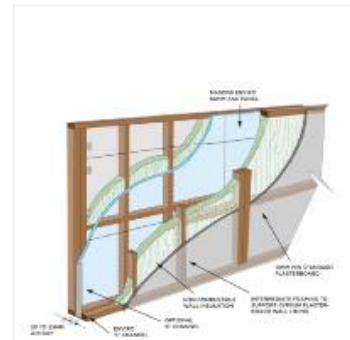
- **Clause B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.3, B1.3.3(a), B1.3.3(b), B1.3.3(c), B1.3.3(f), B1.3.3(i), B1.3.3(j), B1.3.3(m), B1.3.3(q), B1.3.4(a), B1.3.4(b), B1.3.4(c), B1.3.4(d), B1.3.4(e)
Alternative Solution: Refer to PASS Statement.
- **Clause B2 Durability:** Performance B2.3.1, B2.3.2(a)
Material properties of Masons Enviro™ AAC panel to AS/NZS 4456.9 (650 kg/m³ ambient density), AS 5146.2 (dry density 495 kg/m³ and compressive strength 2.8 MPa, flexural strength 1.07 MPa), AS/NZS 4456.14 > (69 % cold water absorption) [Mason Plasterbrick, 11/2021]
- **Clause C3 Fire affecting areas beyond the fire source:** Performance C3.4(a), C3.6
Tested to AS 1530.4 [FireLab, 05/10/2022].
- **Clause C6 Structural stability:** Performance C6.2, C6.4
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- **Clause F2 Hazardous building materials:** Performance F2.3.1
Masons Enviro™ AAC panels are preformed and do not emit harmful materials in finished form. Use of panels in accordance with manufacturer's safety and use instructions.
- **Clause G6 Airborne and impact sound:** Performance G6.3.1
Expert opinion – Masons Intertenancy Wall System (timber and steel framing) achieves estimated laboratory STC of 64 dB [Marshall Day Acoustics, 23/03/2021]

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

Alternative Solution: Refer to PASS statement

Supporting Evidence



masterspec partner

Company Contact Details



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The product has and can make available the following additional evidence to support the above statements:

the Building Business
[PASS - 19164](#)

Product Criteria

Design requirements

<https://assets.mpb.co.nz/files/intertenancy-wall-system/23087-masons-intertenancy-wall-system-installation-guide-v3.1-lo.pdf>

Installation requirements

<https://assets.mpb.co.nz/files/intertenancy-wall-system/23087-masons-intertenancy-wall-system-installation-guide-v3.1-lo.pdf>

Maintenance requirements

<https://assets.mpb.co.nz/files/intertenancy-wall-system/23087-masons-intertenancy-wall-system-installation-guide-v3.1-lo.pdf>

Warrantees

<https://assets.mpb.co.nz/files/intertenancy-wall-system/22137-masons-enviro-aac-intertenancy-wall-system-warranty-lo.pdf>

Company Product Information

Environmental

N/A



Date last validated: **27 September 2023**



Date last updated: **27 September 2023**

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