

A pre-sealed air barrier for use behind cavities in medium to high-rise facade construction

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either a BRANZ or independent Appraisal or CodeMark



James Hardie confirms that this minimum level of assurance has been met or exceeded by the following:

CodeMark
[CM30130 Rev A](#)
BRANZ Appraisal
[611](#)



Technical Statement

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
- **Clause B2 Durability:** Performance B2.3.1(a), B2.3.1(b), B2.3.2
- **Clause C3 Fire affecting areas beyond the fire source:** Performance C3.6, C3.7(a)
- **Clause E2 External moisture:** Performance E2.3.2, E2.3.3, E2.3.4, E2.3.5, E2.3.6
- **Clause F2 Hazardous building materials:** Performance F2.3.1
- **Clause H1 Energy efficiency :** Performance H1.3.1

Evidence

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

Structure - B1: RAB™ Board installed as per its installation manual has been assessed to withstand wind pressures for various wind zones as per NZS 3604 and SED wind zones up to a wind pressure of 4.5kPa and meets the requirements of B1.3.1, B1.3.2 and B1.3.4 of Clause B1. RAB™ Board is tested as per BRANZ P21 test and is suitable for use in bracing applications for buildings within the scope of NZS 3604.

Durability - B2: RAB™ Board is manufactured in accordance with AS/NZS 2908.2 and meets the durability performance requirements of section B2.3.1(a) and B2.3.2 of Clause-B2.

External Moisture - E2: RAB™ Board has been tested and meets the requirements of Table 23 of E2/AS1.

RAB™ Board has also been appraised for use as a rigid wall underlay and temporary weather-protecting sheathing on timber framed buildings up to 25m.

Hazardous Building Materials - F2: RAB™ Board complies with the requirements of F2.3.1.

Fire Performance - C: RAB™ Board has been assessed and is classified as non-combustible material and are suitable for use in fire rated external walls close to boundaries. Also been tested to NFPA 285 standard and is suitable for timber framed buildings more than 10m high.

Supporting Evidence

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



CodeMark
[CM30130 Rev A](#)



BRANZ Appraisal
[611](#)

Product Criteria

Design requirements

RAB™ Board 6mm is a 6.0mm thick fibre cement sheet which is sealed on the face and edges and is suitable for use as a rigid air barrier in Extra High Wind (EH) zones or in wind pressures up to 4.5kPa. It complies with the requirements of Table 23 of E2/AS1. It is suitable for use as rigid underlay as per the requirement of section 9.1.4 of E2/AS1. RAB™ Board 6mm is also suitable to withstand high wind

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pressures experienced on building facades where it creates a wind barrier which equalises pressure within the cavity to the external pressures. RAB™ Board 6.0mm has been tested to withstand wind pressures up to 4.5kPa(ULS).

RAB™ Board 9mm is a 9.0mm thick fibre cement sheet which is sealed on the face and edges and is suitable for use as a rigid air barrier in Extra High Wind (EH) zones or in wind pressures up to 4.5kPa. RAB™ Board 9mm is suitable for specific design shear wall for residential or commercial applications where the structural design require strong/stiffer shear walls. RAB™ Board 9mm is an ideal rigid backing substrate for use behind the facade cavities to improve the acoustic performance of the wall assembly. The continuity of RAB™ Board 9mm on the exterior of framing with its heavier mass cuts down the environmental noise, blocks noise flanking paths and therefore enhances the overall acoustic performance of building facades. It complies with the requirements of Table 23 of E2/AS1. It is suitable for use as rigid underlay as per the requirement of section 9.1.4 of E2/AS1. RAB™ Board is also suitable to withstand high wind pressures experienced on building facades where it creates a wind barrier which equalises pressure within the cavity to the external pressures. Flexible underlays can deteriorate caused by positive/negative pumping actions created by gusting winds within the cavity and on building facade. Due to these pressures a flexible underlay may not perform as desired in the long term. RAB™ Board 9.0mm is suitable for use for wind pressures up to 4.5kPa(ULS).

Installation requirements

Fix as per the rigid air barriers installation manual.

When being used as a bracing element or in a fire rated system fixings are closer together. Refer to the Bracing Design Manual and/or the Fire and Acoustic Design Manual respectively.

Warrantees

RAB™ Board has a standard product warranty of 15 years

Company Product Information

Environmental

We aim to conduct business in an environmentally sound and sustainable manner and to use management systems and operating procedures to identify, monitor, control and reduce the impact of our operations and our products on the environment. We strive to continually improve our manufacturing processes and product formulations to minimise our carbon footprint. As such, we are committed to ecologically sustainable development (ESD) principles.

Quality Assurance



ISO 9001 (Quality Management)



Date last validated: **20 June 2022**



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