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# Product Technical Statement

**Product:** Cemintel Rigid Air Barrier.

**Description:** Cemintel Rigid Air Barrier is a 6mm fibre cement sheet that is sealed on the face and is orange in colour.

**Purpose and Scope of Use:** Cemintel Rigid Air Barrier is suitable for use in a pressure equalised façade system such as cladding or rainscreen installed with a ventilated cavity as described in E2/AS1. Cemintel Rigid Air Barrier is suitable for applications subject to relatively higher wind loads and for projects that are left unclad for extended periods that may require resistance to prevent degradation/damage during construction.

Cemintel Rigid Air Barrier is designed for use on timber or steel framed buildings with the following scope:

- Within the scope of NZS3604:2011 Timber framed buildings or NASH Standard Part 2 Light steel framed buildings and within the limitations of Acceptable Solution E2/AS1 External Moisture, Paragraph 1.1 with respect to building size and height.
- Be located 1m or greater from a relevant boundary.
- In any exposure zone (except adverse microclimatic conditions) as defined in NZS3604:2011 (para 4.2.4).
- Wind zones up to and including Extra High.
- Buildings specifically engineered up to and including ULS design wind pressure of 2.5kPa.

Cemintel Rigid Air Barrier and fixings may be exposed to the weather for up to six months before being enclosed with the façade system. Tape used to seal joints or corners of openings should not be exposed to UV for more than 2 months.

Cemintel Rigid Air Barrier may also be incorporated into external wall constructions where the building is located within 1m of the relevant boundary.

Air barriers must be effectively sealed at all perimeters, openings and joints.

**Conditions:** Cemintel Rigid Air Barrier must be installed in accordance with the Cemintel Rigid Air Barrier Design and Installation Guide.

**NZ Building Code Compliance**

When used as described above, Cemintel Rigid Air Barrier meets the following relevant performance requirements of the New Zealand Building Code.

***Clause B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, h), B1.3.4***

**Basis of Compliance:** Cemintel Rigid Air Barrier complies with the requirements of AS/NZS2908.2:2002 Cellulose cement products Part 2: Flat sheets. The mechanical properties required for compliance with AS/NZS2908.2 are sufficient to meet the mechanical strength properties for rigid air barriers specified in Acceptable Solution E2/AS1 External Moisture Table 23.

**Related Documents:**

- SIRIM QAS International Test Report 2019CB1449 October 2019 Tests to AS/NZS2908.2:2002 Cellulose cement products Part 2: Flat sheets.
- Acceptable Solution E2/AS1 External Moisture.

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

**Basis of Compliance:** Cemintel Rigid Air Barrier complies with the requirements of AS/NZS2908.2:2002 Cellulose cement products Part 2: Flat sheets. The durability tests required for compliance with AS/NZS2908.2 (frost resistance, warm water, heat rain, soak dry) provide evidence of the durability of the product in service. The product also has significant in-service history of use.

**Related Documents:**

- SIRIM QAS International Test Report 2019CB1449 October 2019 Tests to AS/NZS2908.2:2002 Cellulose cement products Part 2: Flat sheets.

***Clause E2 External Moisture: Performance Clauses E2.3.2, E2.3.5, E2.3.7 (contributes to)***

**Basis of Compliance:** The properties of Cemintel Rigid Air Barrier meets the requirements of Acceptable Solution E2/AS1 External Moisture Table 23 for rigid air barriers and is suitable for use with absorbent and non-absorbent claddings fixed directly or over a cavity.

**Related Documents:**

- CSIRO Test Report No 8188A ASTM E96 Test for water vapour transmission of materials (February 2019)

***Clause F2 Hazardous Building Materials: Performance Clauses F2.3.1***

**Basis of Compliance:** Cemintel Rigid Air Barrier does not contain any substance that will give rise to harmful concentrations at the surface of the material where the material is exposed or in the atmosphere of any space.

**Related Documents:**

- CETEC Emission Test Certificate (August 2012)
- Cemintel Fibre Cement Safety Data Sheet

***Clause H1 Energy Efficiency: Performance Clauses H1.3.1 (b)***

**Basis of Compliance:** Cemintel Rigid Air Barrier contributes to limiting uncontrollable airflow to spaces where temperature or humidity is controlled.

**Technical and Installation Literature:**

Cemintel Rigid Air Barrier Design and Installation Guide.