

Independently tested and certified to meet NCC/BCA Deemed-to-Satisfy structural requirements for floor loadings to AS/NZS 1170.1 Table 3.1. See Oxymag Design and Load Tables for more information.

STRENGTH & DURABILITY PROPERTIES

Physical Property	Measure / Result	Standard
Average Bending Strength (16mm) – Saturated Condition	>19MPa, Category 4 , Type A	AS/NZS 2908.2
Average Bending Strength (19mm) – Saturated Condition	>16MPa, Category 4, Type A	AS/NZS 2908.2
Average Bending Strength (22mm) – Saturated Condition	>15MPa, Category 4, Type A	AS/NZS 2908.2
Apparent density (oven-dry)	1000-1200kg/m ³	AS/NZS 2908.2
Water permeability	Pass	AS/NZS 2908.2
Frost Resistance	Pass	AS/NZS 2908.2
Heat-Rain	Pass	AS/NZS 2908.2
Soak-Dry	Pass	AS/NZS 2908.2

THERMAL PROPERTIES

Physical Property	Measure / Result	Standard
Combustibility	Non-combustible	AS 1530.1
Early Fire Hazard Indices: -Ignitability -Spread of flame -Heat evolved -Smoke developed	Lower values are better: 0 0 0 2	AS 1530.3
Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter	Group 1 (top classification); Failed to ignite; Avg Specific Extinction Area = 5.9m ² /kg	AS/NZS 3837
Thermal Conductivity Thermal Resistance/R-value at 16mm	0.216 W/m.k 0.074(m ² .K)/W at 18°C	AS/NZS 4859.1 / ASTM C518-17

MISCELLANEOUS PROPERTIES

OxyMag is a Magnesium Oxysulphate Cement Product

Physical Property	Measure / Result	Standard
Crystalline Silica Content	Less than 1%	FTIR method
Dimensional Conformance	Pass	AS/NZS2908.2
Asbestos	Pass - No asbestos detected	AS 4964
Fungal Resistance	Pass - No growth	ASTM C1338-08
VOC Emissions	Pass - Very low at 0.018 mg/m ² /hr	ASTM D5116