

Product Information Sheet

MANUFACTURER

New Zealand Steel Ltd, 131 Mission Bush Rd Glenbrook 2681,
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DESCRIPTION

ZINCALUME® is a hot-dipped aluminium/zinc/magnesium alloy coated structural steel.

APPEARANCE

Steel sheet with regular spangle.

STANDARDS

Steel substrate is consistent with AS 1397:2021.

Tolerances are consistent with the requirements of AS/NZS 1365:1996.

SCOPE

ZINCALUME® coated steel has been formulated to give a long service life as it combines the corrosion protection of aluminium with the sacrificial protection of zinc. It also includes magnesium and it is the unique composition and microstructure of the AM alloy coating that delivers the enhanced corrosion resistance - particularly at cut edges, around fasteners and penetrations. ZINCALUME® is ideal for roofing and cladding in New Zealand's demanding environment.

RELEVANCE TO THE NEW ZEALAND BUILDING CODE

• B1 Structure

The strength of products manufactured from ZINCALUME® depends on the grade of steel used and the profiles it is formed into. Structural capacities of the finished members should be obtained from the manufacturer.

• B2 Durability

ZINCALUME® has an aluminium/zinc/magnesium alloy coating in accordance with AS1397:2011 and can be used in environments as described in E2/AS1 Table 20. Warranty information is available at nzsteel.co.nz.

• C Fire

ZINCALUME® is rated as a Group 1-S material and has an average specific extinction area of 3.8 m²/kg, a peak heat release rate of 4.8 kW/m² and total heat released of 0.1 MJ/m² when tested in accordance with ISO 5660:2002 Part 1 and Part 2.

INSTALLATION & MAINTENANCE

ZINCALUME® must be installed by a suitably qualified building practitioner in accordance with New Zealand Steel literature.

Material should be used promptly (within 6 months) to avoid the possibility of storage related corrosion.

Mechanical properties are guaranteed at ambient/room temperatures. Please consult technical representatives at New Zealand Steel for high/low temperature use.

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