

Product Technical Statement v2021.1

MANUFACTURER

New Zealand Steel Ltd, 131 Mission Bush Rd Glenbrook 2681, www.nzsteel.co.nz

DESCRIPTION

Altimate® is an aluminium metal with an organic coating applied to both surfaces. It is available in 0.90mm thickness with a small number of grade, strength and width variations.

Thickness is the nominal base metal thickness rather than the total coated thickness.

APPEARANCE

Altimate® is available in various topcoat colours. The standard backer is Perpetual® Grey.

Colour retention (CIE Lab units Delta E) is 8 units maximum after 10 years exposure, and 10 units maximum after 15 years exposure. Chalk rating (AS 1580:481.1.11:1998) is no more than 4 after 10 years exposure.

Solar reflectance and light reflectance values vary with colour, refer to COLORSTEEL® Light Reflectance brochure for details.

STANDARDS

Aluminium substrate is in accordance with AS/NZS 1734:1997 covering chemical composition, mechanical properties, and allowable tolerances on dimensions.

Altimate® is a Type 6 product in accordance with AS/NZS 2728:2013

SCOPE

Altimate® can be manufactured into roofing, wall cladding, rainwater goods and accessories within the constraints detailed by the manufacturers literature and NZBC requirements.

INSTALLATION

Altimate® must be installed by a suitably qualified building practitioner in accordance with NZ Steel literature, the MRM Code of Practice and good trade practice.

RELEVANCE TO THE NEW ZEALAND BUILDING CODE

- **B1 Structure**
The strength of products manufactured from Altimate® depends on the profiles it is formed into. In turn, this will determine how Altimate® applies to the building code. Structural capacity of the finished members should be obtained from the roofing manufacturer.
- **B2 Durability**
Altimate® is suitable for use in environments as described in Acceptable Solution E2/AS1 Table 20. For more warranty information, please refer to the Altimate® Design Guide.
- **C Fire**
Altimate® is rated as a Group 1-S material and has an average specific extinction area of 50.9 m²/kg, a peak heat release rate of 6.5 kW/m² and total heat released of 0.8 MJ/m² when tested in accordance with ISO 5660:2002 Part 1 and Part 2.

MAINTENANCE

Roofs exposed to the washing effects of rain should be inspected annually and any build-up of debris or other corrosive substances removed. Wall cladding, sheltered roofs and other high-risk areas must be maintained regularly in accordance with the instructions provided in the Altimate® Design Guide.

QUALITY ASSURANCE: ISO 9001:2015.



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