

Product Technical Statement v2022.1

MANUFACTURER

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

DESCRIPTION

Maxx® is metallic coated steel with an organic coating applied to both surfaces. It is available in a range of thicknesses, tensile strengths and widths. Thicknesses are typically quoted as the base steel thickness rather than the total coated thickness.

APPEARANCE

COLORSTEEL® is available in various top coat colours. The standard backer is Perpetual Grey®, or double-sided coating to customer's choice.

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

Steel substrate may be either G300 or G550 consistent with AS 1397:2011.

Metallic coating is AZ 200 consistent with AS 1397:2011

Maxx® is Product Type 6 consistent with AS/NZS 2728:2013.

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

SCOPE

Maxx® is suitable to be manufactured into roofing, wall cladding, rainwater goods and accessories within the constraints detailed by manufacturers literature and NZBC requirements.

RELEVANCE TO THE NEW ZEALAND BUILDING CODE

• B1 Structure

The strength of products manufactured from Maxx® depends on the profiles it is formed into. In turn, this will determine how Maxx® applies to the building code.

Structural capacity of the finished members should be obtained from the roofing manufacturer.

• B2 Durability

Maxx® is a Type 6 product in accordance with AS/NZS 2728:2013 and therefore is consistent with the NZ Building Code for use in environments as described in Acceptable Solution E2/AS1 Table 20. Warranty information is available in the Environmental Categories, Warranty & Product Maintenance recommendations brochure.

• C Fire

Maxx® is rated as a Group 1-S material and has an average specific extinction area of 38.2m²/kg, a peak heat release rate of 3.3 kW/m² and total heat released of 0.2 MJ/m² when tested in accordance with ISO 5660:2002 Part 1 and Part.

INSTALLATION

Maxx® must be installed by a suitably qualified building practitioner in accordance with NZ Steel literature, the New Zealand Metal Roof and Wall Cladding Code of Practice and good trade practice.

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 and sheltered roofs and other high-risk areas must be maintained regularly in accordance with NZ Steel Maintenance Recommendations.

QUALITY ASSURANCE: ISO 9001:2015.



NOTE: Buyers and users of New Zealand Steel Limited products and services must make their own assessment of the products for their own conditions. All queries regarding product specification, purpose or application should be directed to New Zealand Steel Limited, email specifications@colorsteel.co.nz. New Zealand Steel Limited reserves the right to modify products, techniques, equipment and statements to reflect improvements in the manufacture and application of its products. The information contained in this brochure is accurate as at March 2022 and supplied without prejudice to New Zealand Steel Limited's standard terms and conditions of sale. In the event of conflict between this information and the standard terms and conditions, the standard terms and conditions prevail. This brochure supersedes all previous brochure editions. COLORSTEEL® and Altimate® are trademarks of New Zealand Steel Limited. Copyright® New Zealand Steel Limited. March 2022. 113993..