

PRODUCT TECHNICAL STATEMENT v2018.1
MANUFACTURER

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

DESCRIPTION

COLORSTEEL® 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

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

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

SCOPE

COLORSTEEL® 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 COLORSTEEL® Maxx® depends on the profiles it is formed into. In turn, this will determine how COLORSTEEL® Maxx® applies to the building code. Structural capacity of the finished members should be obtained from the roofing manufacturer.

- **B2 Durability**

COLORSTEEL® 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**

COLORSTEEL® Maxx® is rated as a Group 1-S material and has an average specific extinction area of 107.0m²/kg, a peak heat release rate of 15.3 kW/m² and total heat released of 0.44 MJ/m² when tested in accordance with ISO 5660:2002 Part 1 and Part 2.

- **G12 Drinking Water**

COLORSTEEL® Maxx® samples tested in accordance with AS/NZS 4020:2005 passed the requirements for products in contact with drinking water.

INSTALLATION

COLORSTEEL® 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.

For more information about COLORSTEEL® products call **0800 697 833** or visit **www.colorsteel.co.nz**

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, phone 0800 697 833. 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 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. COLORSTEEL® is a registered trademark of New Zealand Steel Limited.

Copyright© New Zealand Steel Limited. October 2018. 113993.

