

Product Technical Statement v2021.3

MANUFACTURER

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

DESCRIPTION

COLORSTEEL® Endura® Dridex® is metallic coated steel with an organic coating applied to both surfaces. The under-surface has an absorbent layer of fleece to manage condensation. 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

Endura® Dridex® is available in various top coat colours. The fleece colour is similar to the standard Perpetual Grey® backer colour of other COLORSTEEL® products.

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 150 consistent with AS 1397:2011

Endura® Dridex® is Product Type 4 consistent with AS/NZS 2728:2013

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

Fleece is rated by TNO Bouw as “Impervious to mould growth”

Absorbency of fleece meets the requirements for a roofing underlay as described in NZS 2295, amendment 1:2017 when tested in accordance with AS/NZS 4201.6 Pliable building membranes and underlays - methods of test.

SCOPE

Endura® Dridex® is suitable to be manufactured into roof cladding of corrugate or trapezoidal profile 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 Endura® Dridex® depends on the profiles it is formed into. In turn, this will determine how Endura® Dridex® applies to the building code. Structural capacity of the finished members should be obtained from the roofing manufacturer.
- **B2 Durability**
Endura® Dridex® is a Type 4 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**
Endura® Dridex® is rated as a Group 1-S material under the New Zealand Building Code Clause C3.4(a).

ACCREDITATION

Endura® Dridex® has a CodeMark™ Certificate of Conformity (CM70050) when used as a roof cladding system for structures within the scope of Acceptable Solution E2/AS1.

INSTALLATION

Endura® Dridex® must be installed by an accredited* COLORSTEEL® Dridex® installer, in accordance with NZ Steel literature, the New Zealand Metal Roof and Wall Cladding Code of Practice and good trade practice.

* All accredited installers are independent bodies separate from New Zealand Steel and are solely responsible for all of their installation work.

MAINTENANCE

Roofs exposed to the washing effects of rain should be inspected annually and any build-up of debris or other corrosive substances removed. Sheltered roofs and other high-risk areas must be maintained regularly in accordance with NZ Steel Maintenance Recommendations.

QUALITY ASSURANCE: ISO 9001:2015.



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