Roofing Industries Corrugate

Product Technical Statement: 102549

miproducts

Corrugate available in a wide range of base metal substrates in pre-paint colorcote, colorsteel

View miproducts listing

Level of assurance needed to demonstrate NZ Building Code Compliance

M MEDIUM

Supporting documentation should include technical information by manufacturer and either an independent assessment or reference to an industry-based scheme

Roofing Industries confirms that this minimum level of assurance has been met or exceeded by the following:
New Zealand Metal Roofing Manufacturers Association Inc (NZMRM)
Code of Practice





masterspec partner

Technical Statement

Scope of use

Corrugate is a roof and wall cladding for non-specifically designed timber framed buildings designed and constructed in accordance with B1/AS1, NZS 3604 and E2/AS1, non-specifically designed steel framed buildings to NASH 3405, and specifically designed buildings in accordance with B1/VM1 and AS/NZS 1170.

When used as a roof cladding:

- Corrugate may be used with a minimum roof gradient of 8 degrees

When used as a wall cladding:

- Corrugate may be fixed vertically directly to wall framing where the Risk Score is 0-20
- When fixed horizontally, Corrugate must be fixed over a nominal 20mm drained cavity where the Risk Score is 0-20. ·
- Specific design is required where the Risk Score is greater than 20,

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.3, B1.3.3(a)
- **Clause B2 Durability:** Performance B2.3.1(b)
- **Clause C3 Fire affecting areas beyond the fire source:** Performance C3.7, C3.7(a)
- **Clause E2 External moisture:** Performance E2.3.1, E2.3.2
- **Clause F2 Hazardous building materials:** Performance F2.3.1

Notes

The product will, when installed using the details in the Corrugate Profile Technical Summary, meet the following provisions of the building code: ·

- Clause B1 Structure: Performance B1.3.1; B1.3.2; B1.3.3 for the relevant physical conditions of a) self-weight, b) imposed gravity loads arising from use, (c) temperature, (f) earthquake, g (snow) and h) wind; B1.3.4 ·
- Clause B2 Durability: Performance B2.3.1(b); B2.3.2 ·
- Clause C3 Fire Affecting Areas Beyond the Fire Source: Performance C3.7 Corrugate is non-combustible and contributes to C3.7a) ·
- Clause E2 External moisture: Performance E2.3.1, E2.3.2 Corrugate complies with E2/AS1 ·
- F2 Hazardous Building Material: Performance F2.3.1

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents: ·

- Acceptable Solution for External Moisture E2/AS1 ·
- Verification Method for Structure B1/VM1 ·
- Acceptable Solution B1/AS1 ·
- Verification Method C/VM2 ·
- AS/NZS 2728: 2013 ·

NZ Metal Roof and Wall Cladding Code of Practice

- Version 2.2/2012 MRM Code of Practice ·

Company Contact Details

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- Tested for wind loads to AS4040.3: 1992 Methods of testing sheet roof and wall cladding Resistance to wind pressures for cyclone regions AS4040.2: 1992 Methods of testing sheet roof and wall cladding Resistance to wind pressures for non-cyclone regions.

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:

New Zealand Metal Roofing Manufacturers Association Inc (NZMRM)
Code of Practice

Product Criteria

Design requirements

Refer to Roofing Industries Corrugate Profile Technical Summary for tables of maximum spans (intermediate and end) for each wind zone.

Selection of the correct grade of material and appropriate surface coating is imperative to ensure that Corrugate performs satisfactorily in the environment it is to be installed in and to meet the requirements of the NZBC.

Corrugate is manufactured from Zincalume, aluminium-zinc-magnesium and galvanised steel with Colorcote or Colorsteel pre-painted finishes using all the latest coating technology to AS/NZS 2728.

Contact Roofing Industries for environmental categories and surface coating literature for selection of material and surface coating suitable for the environment where the roof or wall cladding is to be located.

Installation requirements

Materials in contact with Corrugate must be compatible as specified in E2/AS1 Table 21.

Maintenance requirements

Regular maintenance will extend the life of Corrugate and associated accessories.

Maintenance guides are available from Roofing Industries or can be downloaded from either NZ Steel or Pacific Coilcoaters website.

Guide to regular maintenance:

- Inspect the roof, including fasteners, and repair any damage every 6 months.Wash areas not receiving regular rain washing with fresh water at least every 3 – 6 months.
- Remove debris from gutters every 3 - 6 months.
- Remove any noticeable buildup of salt deposits and/or other contaminants when identified.
- Please consult with your local distributor when considering over painting to ensure correct procedures are undertaken.

Warrantees

Colorcote Warranty

Colorsteel Warranty

Company Product Information

Environmental

Colorsteel and Colorcote pre-painted steel has been extensively tested and proven in some of New Zealand's most extreme UV, wind, rain, snow and ice environments.

All Colorsteel and Colorcote is factory painted at either NZ Steel, Glenbrook or Pacific Coilcoaters, Penrose. Both plants operate within strict environmental controls.

Environmental category literature available by request or the roof.co.nz website, or by contacting Roofing Industries, technical helpline 0800 844 822

Relationships

New Zealand Made

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