

Maxispan® is a strong and aesthetically pleasing high rib, high span roofing and cladding profile

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Level of assurance needed to demonstrate NZ Building Code Compliance

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](#)



Technical Statement

Scope of use

Maxispan® is a wall and roof cladding with a high rib-height asymmetric trapezoidal roofing profile for non-specifically designed timber framed buildings designed and constructed in accordance with B1/AS1, NZS3604 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:

- Maxispan® may be used with a minimum roof gradient of 3 degrees

When used as a wall cladding:

- Maxispan® may be fixed horizontally over a nominal 20mm drained cavity where the Risk Score is 0-20.
- Maxispan® may be fixed vertically over a nominal 20mm drained cavity with “ventilated” battens 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(a), B1.3.3(b), B1.3.3(c), B1.3.3(f), B1.3.3(g), B1.3.3(h)
- **Clause B2 Durability:** Performance B2.3.1(b), B2.3.2
- **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 Ribline® 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 Maxispan® is non-combustible and contributes to C3.7a)
- Clause E2 External moisture: Performance E2.3.1, E2.3.2 Maxispan® complies with E2/AS1 if the roof gradient is 3 degrees or greater, and complies with E2/AS1 as a wall cladding when fixed horizontally over a nominal 20mm drained cavity where the Risk Score is 0-20
- 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:

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

masterspec partner

Company Contact Details



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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

For most roof installations the purlin spacing will be limited by the trafficable limitations of the profile or the structural design, refer to Profile Technical Summary data sheet.

For fixings and fixing patterns, refer to the Roofing Industries Maxispan® Profile Technical Summary, which is to be read in connection with E2/AS1, and the NZ Metal Roof and Wall Cladding Code of Practice. E2/AS1 states that the use of the manufacturers information may provide a more optimum spacing of fixings, and this is recommended by Roofing Industries. For purlin sizes, spacing and fixing, refer to NZS 3604 for Timber Framed buildings and NASH 3405 for Steel Framed Houses.

Where a building is outside of the scope of E2/AS1 specific design is required, and the designer must calculate the design wind load for the roofing and cladding in accordance with generally acceptable practice, by reference to AS/NZS 1170.2 2011, and/or NZS 3604:2011 as appropriate.

For a fuller explanation of this refer to the NZ Metal Roof and Wall Cladding Code of Practice. This result should be read in referenced to Roofing Industries Profile Technical Summary the Wind Load Span Design Graphs.

The substrate and coating system must be as recommended by Colorsteel or Colorcote for the environmental conditions at the intended building location, and as specified in E2/AS1 Table 20.

Installation requirements

Materials in contact with Maxispan® must be compatible as specified in E2/AS1 Table 21. Maintenance requirements.

Regular maintenance will extend the life of Multirib® and associated accessories.

Maintenance requirements

Regular maintenance will extend the life of Maxispan 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](#)

[NZ Steel Warranty](#)

Company Product Information

Environmental

Colorsteel and Colorcote prepainted 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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