

High rib with strong ribs and widepans decking profile run on site in lengths up to 100m long.

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Level of assurance needed to demonstrate NZ Building Code Compliance

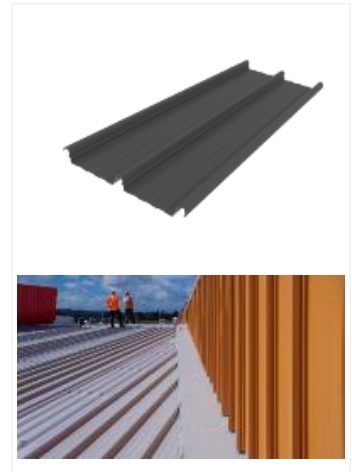
Supporting documentation should include technical information by manufacturer and either an independent assessment or reference to an industry-based scheme



Dimond Roofing confirms that this minimum level of assurance has been met or exceeded by the following:

NZ Metal Roofing Manufacturers assoc inc (NZMRM)

[Code of Practice](#)



Technical Statement

Scope of use

Exterior Long run metal roofing or cladding used on long lengths up to 100m, where the sheet length is beyond the 25m length limit that can be factory manufactured and easily transported to site.

Thermal expansion of the sheet is accommodated by the use of a concealed clip fixing system.

The profile is used where its important there is no risk of water ingress during the life of the product.

History of the products performance throughout NZ since 2003 has shown it performs as expected to the NZBC, provided its been installed and maintained in accordance with Dimond literature.

Not available in Aluminium

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 B2 Durability:** Performance B2.3.1
- **Clause E2 External moisture:** Performance E2.3.1, E2.3.2
- **Clause F2 Hazardous building materials:** 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:

- NZ Metal roofing Code of Practice. The Dimondek 630 has been full tested using the NZ Metal Roofing Manufactures(MRM) Air box test rig in accordance with the MRM testing procedures in the MRM metal roofing code of practice section 15.
- Test information available from Pacific Coilcoaters and BHP NZ Steel, and past history of use of long run metal roofing and cladding products in New Zealand indicate that, provided the product use and maintenance is in line with the guidelines contained in the current literature referenced, Dimond long run metal roofing & wall cladding systems can be expected to meet the performance criteria in clause B2 and E2 of the New Zealand Building Code, for a period of not less than 15 years.

Supporting Evidence

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



NZ Metal Roofing Manufacturers assoc inc (NZMRM)

[Code of Practice](#)

Product Criteria

Design requirements

Dimondek 630 is best suited for commercial roofs installed on larger purlin spans in sheet lengths beyond 25m.

As it's run on site, savings are made on transport. Sheet lengths up to 100m can be run provided there is room on site to set up and run these.

Manufactured using different paint coatings available from NZS or PCC depending on the durability required for the environment the roof or wall will be installed in, in accordance with AS/NZS 2728.

Aluminium based product is not available as DD630.

1. As a guide sites within 100m of breaking surf ColorSteel Maxx can be used,
2. 100 m from surf (Category 4) ColorCote Magnaflow can be used,

masterspec partner

Company Contact Details



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3. beyond 200m (Category 3) then ColorCote Zinacore,
4. Further inland (400m to 500m away from the sea influence) unpainted Zinalume can be used.

For more information refer to www.dimond.co.nz.

Installation requirements

Refer to Dimond website for installation requirements.

When using Dimondek 630 its important to ensure the purlin alignment is laid to a tight tolerance to allow best fit for the clip system onto the roof profile.

Maintenance requirements

The painted surface must be regularly washed especially in areas not naturally rain washed. Regular washing could be up to every 3 months, with a mild water blasting or a soft bristled brush and plenty of clean fresh water. All debris and rubbish must be removed from the roof surface.

Refer to the Dimond website for full maintenance statement.

Warrantees

Commercial warranties are for 15 years

- against the paint coating chipping, flaking and peeling
- perforation of the sheet allowing moisture into the building

Residential warranties this does not apply.

Company Product Information

Environmental

Manufactured from coated steel produced by NZ Steel at Glenbrook from Ironsand mined off North island's West coast.

Colorsteel is factory painted at NZ Steel, Glenbrook or if its Colorcote its painted at Pacific coil coaters Penrose. Both sites operate within strict environmental controls and recycle cleaning and washing water and control what is exhausted into the environment.

Dimond recycle all steel scrap waste and offcuts which then are remelted into reinforcing bar.

The used roofing profile can be recycled back by remelted into reinforcing bar.

Relationships



New Zealand Made



Member of New Zealand Green Building Council



Date last validated: **28 November 2018**



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