

PRODUCT DESCRIPTION

If versatility is what you are after then Dimondclad is the perfect cladding solution. Dimondclad's clean, efficient lines and well concealed laps are excellent for both exterior and interior cladding. Dimondclad Rib20 features wide pans and narrow ribs for defined cladding lines.

DESIGN GUIDELINES

- Only used on walls. Either vertically or horizontally.
- Must be installed on top of cavibat ventilation batten.

BUILDING CODE COMPLIANCE

The product will, if used in accordance with the Dimond installation and maintenance requirements, assist with meeting the following provisions of the building code for a period of 15 years:

- Clause B2 Durability: Performance B2.3.1
- Clause C3 Fire affecting areas beyond the fire source: Buildings C3.3
- Clause E2 External moisture: Performance E2.3.1, E2.3.2
- Clause F2 Hazardous building materials: Performance F2.3.1

EVIDENCE MEETS NZBC

Test information available from Pacific Coilcoaters and New Zealand 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 Roofing metal wall cladding systems can be expected to meet the performance criteria in clause B2, C3, E2 and F2 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 Association Inc. (NZMRM)
[Code of Practice](#)



ENVIRONMENTAL

Manufactured from coated steel produced by New Zealand Steel at Glenbrook from Ironsand mined off North Island's West coast and Zinalume[®] coated.

COLOURSTEEL[®] is factory painted at New Zealand Steel, Glenbrook or if its ColorCote[®] its painted at Pacific Coilcoaters Penrose. ColorCote[®] MagnaFlow[™] base coated steel and coating is imported from Asia, but painted at Pacific Coilcoaters in Penrose. Both NZ sites operate within strict environmental controls and recycle cleaning and washing water and control that is exhausted into the environment.

Dimond[®] Roofing recycle all steel scrap waste and offcuts which can then be remelted down and reused in other steel based products.

At the end of its useful life as a roofing profile can be recycled back by remelted down.

Aluminium is imported from overseas and painted at New Zealand at Pacific Coilcoaters.

COATINGS & CLASSES

Manufactured using different paint coatings available from New Zealand Steel or Pacific Coilcoaters depending on the durability required for the environment the roof or wall will be installed in, in accordance with AS/NZS 2728. As a guide for areas 1m to 50m of breaking surf, use ColorCote[®] AlumiGard[™] or plain unpainted aluminium. Sites within 50m to 100m of breaking surf COLOURSTEEL[®] MAXX[®] can be used, then at 100 m (Category 4) ColorCote[®] MagnaFlow[™] (ZM8) can be used, beyond 200m (Category 3) then ColorCote[®] ZinaCore[™] (ZR8) or COLOURSTEEL[®] ENDURA[®], and beyond can use Zinalume[®].

Refer to environmental literature available from Pacific Coilcoaters or New Zealand Steel or contact Dimond[®] Roofing on 0800 766 377.

SPANS

Product (Wall Cladding Only)	Material	Thickness BMT (mm)	Walls Max. Span End Span (m)*	Walls Max. Span Internal (m)*
Dimonclad Rib 20	Steel (G550)	0.40	0.90	1.40
	Aluminium (H36)	0.70	0.90	1.40
		0.90	0.90	1.40

*The take an ultimate inward or outward wind load of 3 kPa.

The span capacity of Dimonclad Rib 20 is determined by the serviceability requirement for acceptable appearance and should not exceed 1400mm.

The Dimonclad Rib 20 profile is not intended for use as roofing products, and must not be used in situations where foot traffic point loads can be applied.

*For more information, please refer to Dimond Roofing website <http://www.dimond.co.nz/products/dimonclad-rib20>

FIXINGS

Framing Material	Fastener Length (mm)	
	Wall Cladding Pan over a 20mm high cavity batten	
	Screw Length* (mm)	Designation (gauge x length)
Timber	50	Roofzip M6 x 50mm
Steel	250	Roofzip M6 x 50mm

*If sarking, cavity batten or insulation is used for wall cladding fixed through a cavity batten greater than 20mm high, into the stud, the screw length will need to be increased by a least the sarking, insulation or cavity batten thickness.

FIXINGS CONT.

The Limit State Load/Span Capacity Chart is based on 3 screw fasteners/sheet/purlin fixed in the pan.

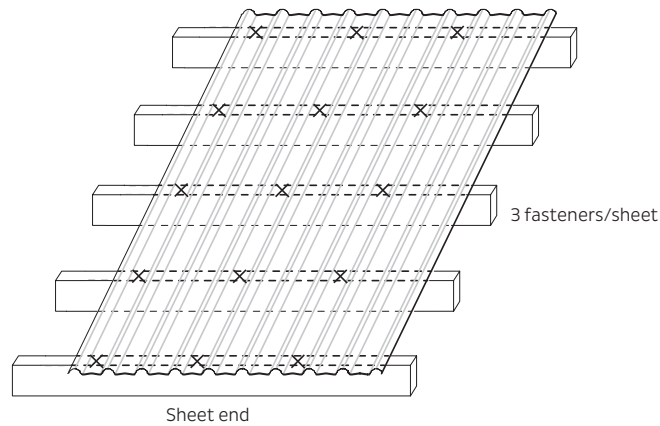
Spans greater than 800mm will require the use of side lap stitching fasteners as below.

Metal Sheeting

10 - 16 x 16mm	Hex head	Tek screws
10 - 12 x 20mm	Hex head	Type 17 screws

INSTALLATION REQUIREMENTS

Dimondclad Rib 20 Fastener Layout Options



Can be installed over plastic cavibat battens.

For more information, please refer to Dimond Roofing website <http://www.dimond.co.nz/products/dimondclad-rib20>

SPECIAL CONDITIONS

Wall cladding only. Manufactured in Hamilton.