

PRODUCT DESCRIPTION

Eurotray® Roll Seam is a simple but stylish profile with a shadowed elegance and can be formed from steel based materials as well as copper and zinc. Creating a slightly softer finish and a larger shadow effect than Eurotray® Roll Cap, Eurotray® Roll Seam can be machine concave curved similarly to that of Double Standing Seam and Angle Seam. The profile does require a solid substrate underneath for support.

Cover - Auckland = 575, Christchurch = 565, Invercargill = 579.

Width - Auckland = 540, Christchurch = 530, Invercargill = 544

Eurotray® Roll Seam can also use Photo-Voltaic Laminate (PVL) solar power technology to generate electric power.

Eurotray® Roll Seam can be installed without the PVL, with the laminate being added onto the profile at later time if desired. Eurotray® Roll Seam represents a progressive product, paying for itself in the long run and is an ideal way to combat increasing energy prices by taking advantage of nature's most renewable source of energy – the sun.

**The laminates are 348mm wide and available in 5.910mm and 2.585mm lengths. Lead time for the supply of laminates is 16 weeks

DESIGN GUIDELINES

Recommend use when:

- Roof pitch is 5° and above
- Must be installed over 12mm (min) plywood substrate.
- Max purlin spacing does not exceed wind uplift load from the Euro-Tray® Roll Cap load span charts
- Specify coating on steel to match the environment
- Specify fixing type and length to be used with the correct purlin material
- Ensure there is an allowance for thermal expansion
- Can be installed as a wall cladding with a substrate over vented cavity battens
- Rainwater run-off over laminates is potable and safe to collect

BUILDING CODE COMPLIANCE

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 for a period of 15 years:

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

Photo-Voltaic Laminate certification:

- UL 1703
- IEC 61646
- IEC 61730

Photo-Voltaic Laminates are sourced from a world leading supplier in the United States of America

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 guidelines contained in the current literature reference, Dimond® Roofing long run metal roofing and 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	Material	Thickness BMT (mm)	Roofing Span Low to High Wind Zones (mm)	Roofing Span Very High to Extra High Wind Zones (mm)	Walls Span Low to High Wind Zones (mm)	Walls Span Very High to Extra High Wind Zones (mm)
			To be laid over 12mm H3.2 CD treated plywood			
Eurotray® Roll Cap (min. pitch 5°)	Steel (G300)	0.55	600	400	600	400
	Aluminium (H36)	0.70	600	400	600	400
	Copper	0.70	600	400	600	400
	Zinc	0.70	600	400	600	400

Spans for roofing where the serviceability wind uplift load does not exceed 1.5kPa

Spans for walls are limited by serviceability wind uplift of 2.0kPa

For more information, please refer to Dimond Roofing website <https://www.dimond.co.nz/products/eurotray-roll-seam>

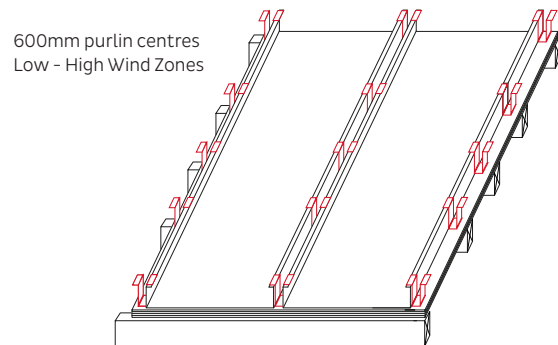
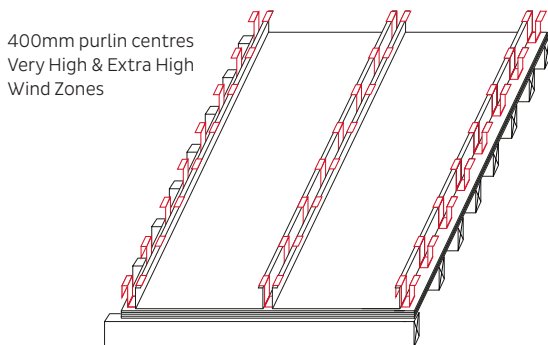
FIXINGS

Purlin material	Screw fastener			
	Roofing rib with standard 12mm substrate		Wall cladding over vented cavity batten (18 - 25mm thick)	
	Screw length* (mm)	Designation (mm)	Screw length (mm) over a vented cavity	Designation over a vented cavity (mm)
Timber with steel based sheet	50	Type 17 Class 4 - 12g x 50mm Timbertite	65	Type 17 Class 4 - 12g x 65mm Timbertite
Timber with aluminium based sheet	50	Type 17 Class 4 - 12g x 50mm Timbertite	65	Type 17 Class 4 - 12g x 65mm Timbertite
Timber with copper based sheet	50	Type 17 304 Stainless Steel 12g x 50mm Timbertite	65	Type 17 304 Stainless Steel 12g x 65 Timbertite
Timber with zinc based sheet	50	Type 17 Class 4 - 12g x 50mm Timbertite	65	Type 17 Class 4 - 12g x 65mm Timbertite

*If a cavity batten is used over the purlins under the substrate on a skillion roof situation, the screw length will need to be increased by at least the cavity batten thickness.

INSTALLATION REQUIREMENTS

Dimond Eurotray® Roll Seam Fastener Layout Options



Can be installed as a wall cladding with a substrate over vented cavity battens.

For more information, please refer to Dimond® Roofing website.

SPECIAL CONDITIONS

Manufactured in Auckland, Christchurch and Invercargill.