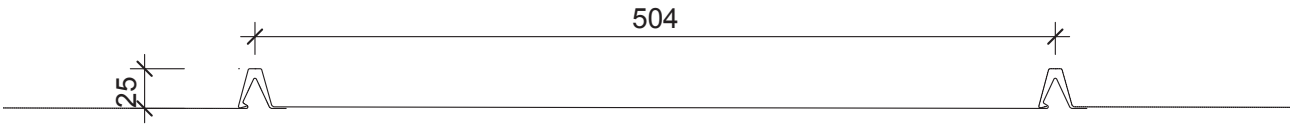
Dimond Roofing™

EUROTRAY® LITE
PRODUCT TECHNICAL STATEMENT



PRODUCT DESCRIPTION

Eurotray® Lite features smooth seams and concealed fixings, this profile has the capacity of being long run and is suitable for most architectural designs, it's robust but stylish design makes it ideal for New Zealand alpine settings. The profile does require a solid substrate underneath for support.

Eurotray® Lite can also use Photo-Voltaic Laminate (PVL) solar power technology to generate electric power. Eurotray® Lite can be installed without the PVL, with the laminate being added onto the profile at later time if desired. Eurotray® Lite represents a progressive product, paying for itself over time, 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

Recommended use when:

- Roof pitch is 8° and above
- Must be installed over 12mm (min.) plywood substrate
- Max purlin spacing does not exceed wind uplift load from the Eurotray® Lite 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 install 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 the North Islands West coast and Zincalume® coated COLOURSTEEL® is factory painted at New Zealand Steel, Glenbrook or if it is ColorCote® it's painted at Pacific Coilcoaters Penrose New Zealand. Colorcote® MagnaFlow™ base coated steel and coating is imported from Asia, but painted at Pacific Coilcoaters in Penrose. Both New Zealand sites operate within strict environmental controls and recycle cleaning and washing water and control what 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 remelting down.

Aluminium is imported from overseas and painted in 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 sites within 50m to 100m of breaking surf COLOURSTEEL® MAXX® can be used, and then at 100m (Category 4) ColorCote® MagnaFlow™ (ZM8) can be used, beyond 200m (Category 3) then ColorCote® ZinaCore™ (ZR8) or COLOURSTEEL® ENDURA,® and beyond can use Zincalume.®

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 End Span (mm) Low to High Wind Zone	Roofing Internal Span (mm) Very High to Extra High Wind Zone	Walls End Span (mm) Low to High Wind Zone	Walls Internal Span (mm) Very High to Extra High Wind Zone
			To be laid over 12mm H3.2 CD treated plywood			
Eurotray® Lite (min. 8°)	Steel (G300)	0.55	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's website https://www.dimond.co.nz/products/eurotray-lite

FIXINGS

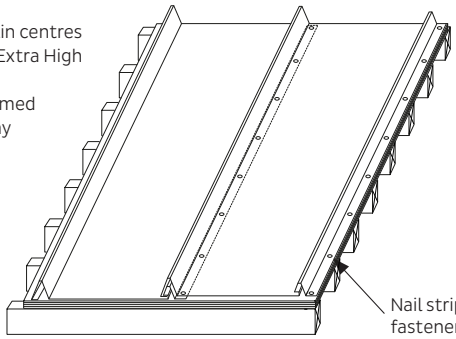
Purlin Material	Screw Fastener			
	Roofing Rib		Wall Cladding (pan fixed)	
	Screw length* (mm)	Designation	Screw length (mm) Over a vented cavity	Designation Over a vented cavity
Timber with steel based sheet	45	Type 17 Class 4 10g x 45mm wafer head	65	Type 17 Class 4 10g x 65mm wafer head

*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.

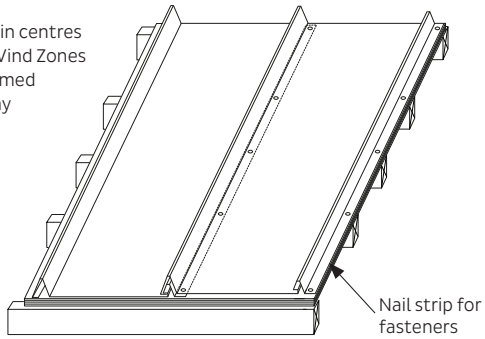
INSTALLATION REQUIREMENTS

Dimond Eurotray® Lite Fastener Layout Options

400mm purlin centres
Very High & Extra High
Wind Zones
Nail strip formed
as part of tray



600mm purlin centres
Low - High Wind Zones
Nail strip formed
as part of tray



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 Christchurch.