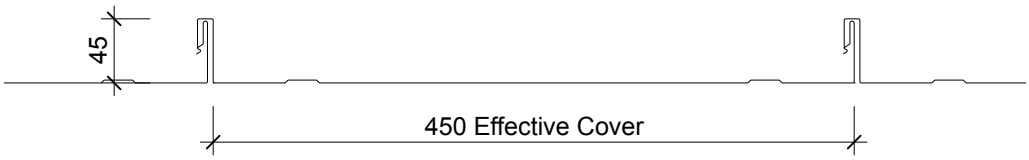
Dimond Roofing™

HERITAGE TRAY™
PRODUCT TECHNICAL STATEMENT



PRODUCT DESCRIPTION

Evolving from the already popular and stylish Eurotray® family, Heritage Tray™ markets itself as an elegant, economical and flexible roofing profile. Heritage Tray™ requires no additional plywood substrate thus reduces costs to the client. Additionally, it can be roll-formed on site, an attractive logistical option for larger construction projects.

**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 3° and above
- Max purlin spacing does not exceed wind uplift load from the Heritage Tray™ 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 used for wall cladding when install on top of a ventilated cavity batten
- 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 Zincalume® 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 Zincalume.®

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

Duraclad® is recommended for use in special areas such as fertiliser works or very severe marine.

SPANS

Product	Material	Thickness BMT (mm)	Roofing Span (mm) Low to High Wind Zone (mm)	Roofing Span (mm) Very High to Extra High Wind Zone (mm)	Walls Span (mm) Low to High Wind Zone (mm)	Walls Span (mm) Very High to Extra High Wind Zone (mm)
Heritage Tray™ (min. pitch 3°)	Steel (G300)	0.55	500	500	600	600
	Aluminium (H36)	0.90	500	500	600	600

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 www.dimond.co.nz

FIXINGS

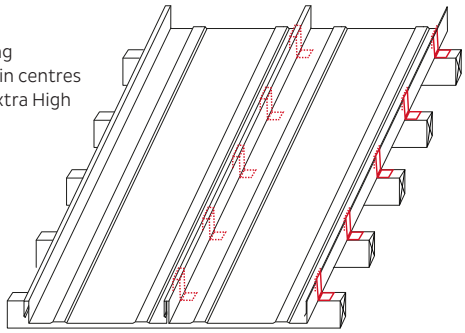
Purlin material	Screw fastener			
	Roofing rib		Wall cladding (pan fixed)	
	Screw length* (mm)	Designation (mm)	Screw length* (mm) over a vented cavity	Designation over a vented cavity (mm)
Timber with steel based sheet	45	Type 17 Class 4 - 10g x 45mm sq. drive timber wafer head	65	Type 17 Class 4 - 10g x 65mm sq. drive steel tip wafer head
Timber with aluminium based sheet	45	Type 17 Class 4 - 10g x 45mm sq. drive timber wafer head	65	Type 17 Class 4 - 10g x 65mm sq. drive steel tip wafer head
Steel	16	Type 17 Class 4 - 10g x 16mm sq. drive steel tip wafer head	40	Type 17 Class 4 - 10g x 40mm sq. drive steel tip wafer head

*If sarking, cavity batten or insulation is used over the purlins the screw length will need to be increased by at least the sarking, insulation or cavity batten thickness.

INSTALLATION REQUIREMENTS

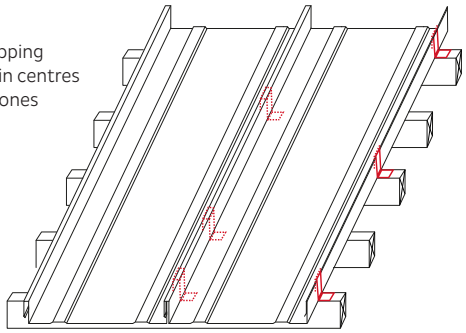
Dimond Heritage Tray™ Fastener Layout Options

Fix all clipping
500mm purlin centres
Very High/Extra High



Sheet end

Alternate clipping
500mm purlin centres
Low - High Zones



Sheet end

Can be directly installed over plastic cavibat battens.

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

SPECIAL CONDITIONS

Manufactured in Invercargill and Auckland.