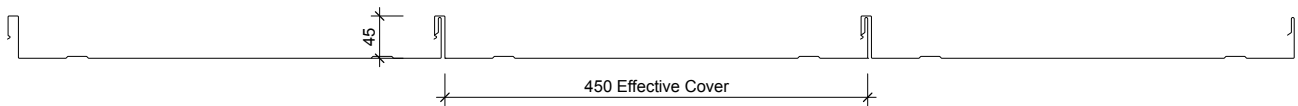


DIMOND HERITAGE TRAY™ PROFILE INFORMATION



**Photovoltaic Laminate please refer to note

Cover (mm)	450
Sheet width (mm)	465
Minimum Pitch	3° (approx. 1:20)

All dimensions given are nominal

Sheet Tolerances

Sheet width: ± 5 mm

Sheet width for aluminium +0, -15mm. If sheet cover widths are critical, advise Dimond Roofing at time of order.

Sheet length: +10, - 0mm. For horizontal wall cladding where notified at time of order of intended use, tighter tolerances can be achieved +3, -0.

Material Options	Steel	Aluminium
Thickness (BMT) mm	0.55	0.90
Nominal weight/lineal metre (kg/m)	2.77	1.48
Drape curved roof - min. radius (m)	n/a	n/a
Substrate required	No	No
Machine curved - roof min. radius (mm)	No	No
Drip edge flashing required see detail R-005-02	Yes	Yes

**Please contact your Dimond Roofing 0800 Dimond (0800 346 663) for availability.

Roll-forming facilities at: Auckland, Christchurch and Invercargill

Curving facilities: n/a

Sheet lengths: Heritage Tray™ is custom run to order. Where long sheets are used, consideration must be given to:

- Special transportation licences
- Should be run on-site
- Site access for special lifting equipment
- Fixing techniques to accommodate thermal expansion

THIS PRODUCT MUST BE INSTALLED BY A CERTIFIED & APPROVED ROOFINGSMITH

**NOTE

Photovoltaic laminates (PVL's) can be installed on to this profile at an additional cost when the cladding is completed and other trade have finished or it can be installed at a later date.

Laminates are 348mm wide and available in 5.910mm and 2.585mm lengths. Lead time of 16 weeks

Laminates cannot be installed on raking sections of roofs

Consult with Dimond Roofing 0800 Dimond (0800 346 663) for further information

HERITAGE TRAY™ LIMIT STATE LOAD/SPAN CAPACITY CHART

(span in mm, distributed ultimate load in kPa)

Serviceability Category

		Unrestricted-Access Roof		Wall	
		Fix clip to every purlin	Fix clip to every second purlin	Fix clip to every purlin	Fix clip to every second purlin
G300 Steel 0.55mm	End Span (mm)	500	500	600	600
	Internal Span (mm)	500	500	800	800
	Ultimate (kPa)	4.7	3.9	3.5	3.1
5052, H34 Aluminium 0.90mm	End Span (mm)	500	500	600	600
	Internal Span (mm)	500	500	800	800
	Ultimate (kPa)	2.8	2.2	2.0	1.8

Notes

- Category 1 maximum spans are based on static point load testing as a guide, and further limited by practical experience of roof performance under dynamic foot traffic loads. Category 3 maximum spans are limited as a guide to achieving satisfactory appearance for wall cladding. Loads given are based on 4 screw fasteners/sheet/purlin.
- Loads given are based on 1 clip per purlin, and alternative (second) purlin clipping, i.e. hit 1, miss 1. Clips are required to be fitted to all end and valley purlins, under any situation.
- Loads given are limited to a maximum of 4.7kPa. If design requirements exceed this limit, Contact Dimond Roofing for specific advice. N/R = not recommended.
- End span capacities given in this table are based on the end span being the same as the internal span.

5. Design Criteria for Limit State Capacities

a) Ultimate Limit State

No pull through of fixings or fasteners withdrawal resulting in sheet detachment due to wind up-lift (outward) loads.

6. System Design

The span capacity of Heritage Tray™ is determined from the Heritage Tray™ Limit State Load/Capacity Chart using the section of the chart appropriate to grade and type of material, and to the category of serviceability selected from the two categories below. It is recommended that to obtain a dependable design strength capacity for the ultimate limit state, a reduction factor of $\phi = 0.8$ is applied.

The capacities given do not apply for cyclone wind conditions.

Serviceability Requirements

While these categories are given for design guidance to meet the serviceability limit state criteria, foot traffic point load damage may still occur if there is careless placement of these point loads.

Service Category

Description

- Unrestricted-access roof Expected regular foot traffic to access the roof for maintenance work and able to walk anywhere on the roof. No congregation of foot traffic expected.

7. Wind Pressure Guide

As a guide for non-specific design the following S.L.S. design loads in accordance with the MRM Roofing Code of Practice can be used for buildings less than 10m high, otherwise AS/NZS 1170.2 should be used

Low wind zone = 0.68kPa, Medium wind zone = 0.93kPa, High wind zone = 1.32kPa, Very high wind zone = 1.72kPa and Extra high wind zone = 2.09kPa.

Heritage Tray™ Design

Fasteners that are used to secure Heritage Tray clip down as a roof cladding must penetrate into the purlin a minimum of 30mm for timber and 6mm for steel purlins. For wall cladding the clip fasteners must be long enough to pass through the substrate, cavity batten and into the main frame by 30mm for timber and 6mm for steel.

Galvanised Clip Fixing Requirement 2 fixings per clip				
Purlin or frame material	Roof		Wall (over vented cavity batten, 18 - 25mm thick)	
	Base material		Base material	
	Steel	Aluminium	Steel	Aluminium
Timber	Class 4 10g x 45mm wafer head	Class 4 10g x 45mm wafer head	Class 4 10g x 65mm wafer head	Class 4 10g x 45mm wafer head
Steel	Class 4 10g x 25mm #2sq/drive wingtec	Stainless steel 10g x 25mm #2sq/drive wingtec	Class 4 10g x 40mm #2sq/drive wingtec	Stainless steel 10g x 25mm #2sq/drive wingtec

Design

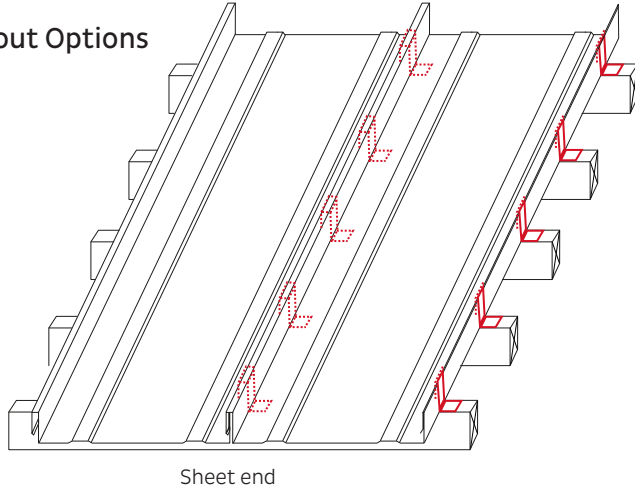
Clip fasteners must be fixed closer together on the periphery edges of all roofs in areas of High to Extra High Wind Zones.

Unlike profiled metal cladding, the point load imposed on a fully supported cladding is supported by the substrate underneath.

Minimum pitch for Eurotray® Double Standing Seam is 5 degrees.

Heritage Tray™ Fastener Layout Options

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



Heritage Tray™ Fastener Layout Options

Alternate clipping
500mm purlin centres
Low - High Zones

