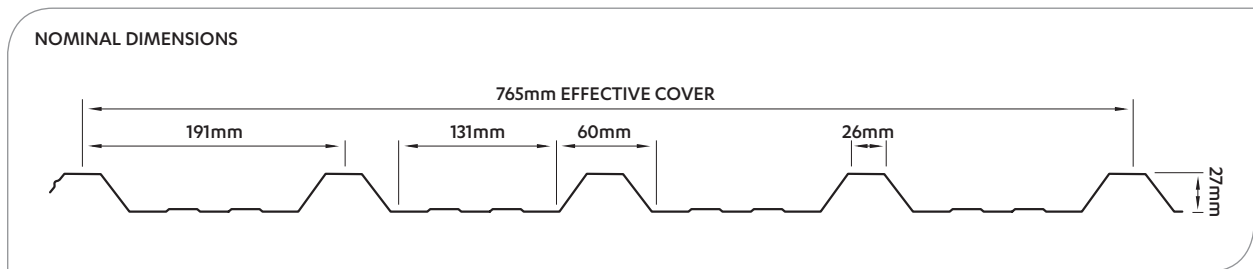


✦ Profiled Metal Roofing and Cladding



INTRODUCTION

Plumbdek® is a low rib, five-ribbed trapezoidal product offering great looks, economy and exceptional performance.

APPLICATIONS

- Residential Roofing and Cladding
- Industrial/Commercial Roofing and Cladding
- Curving

FEATURES

Plumbdek is a very material-effective product with good performance under load.

OPTIONS

Plumbdek can be crimp curved to radii of 400mm and greater. Clear sheeting is available in profiled G.R.P. (fibreglass) to match.

MATERIALS

Available in metallic coated and pre-painted steel in .40mm and .55mm B.M.T. (base metal thickness), aluminium plain and prepainted in .70mm and .90mm, and other non-ferrous metals.

FASTENERS

Typically: Steelfix 12g x 55mm, Timberfix 12g x 65mm, Class 4 minimum, of material compatible with that being fastened and durability no less than the sheet material. Category 5 or non-ferrous fasteners are recommended for severe or very severe marine environments.

DURABILITY

All material selections must be compatible with prevailing environmental conditions and adjacent materials, see New Zealand Steel's *Environmental Categories, Warranty & Product Maintenance Recommendations*. Areas not exposed to rain washing will require programmed maintenance.

WARRANTY PLUS

Steel & Tube **WarrantyPlus** is one of the most comprehensive warranties available in the industry. **WarrantyPlus** covers an extended range of performance criteria, is supported back-to-back by our suppliers, includes site-specific maintenance requirements, and is transferable to subsequent owners.

PERFORMANCE DATA

MASS (KG/M²)

.40mm B.M.T.	4.07	.55mm B.M.T.	5.52
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MAXIMUM SPAN

Maximum spans for normal and heavy traffic in millimetres based on point load limits, distributed loads in kPa at maximum spans, using 4 fasteners per sheet per support. Loads for alternative fastener frequencies available on request.

	Material Thickness	Internal Span			End Span		
		Span	Strength Load	Serviceability Load	Span	Strength Load	Serviceability Load
Controlled Traffic*	.40mm	1600	4.37	1.82	1300	5.58	2.37
	.55mm	2400	4.41	1.75	1900	4.77	1.91
Heavy Traffic**	.40mm	1100	7.16	3.08	800	8.15	3.94
	.55mm	1800	6.08	3.31	1400	6.75	3.28

* Supports 1.1kN load to PAN at mid-span.

** Supports 1.1kN load to RIB at mid-span.

To minimise the possibility of roof traffic damage, Steel & Tube recommends Heavy Traffic maximum spans be used.

FASTENERS PER SHEET PER PURLIN

Material Thickness	Purlin Spacing	Wind Zone			
		Low/Medium	High	Very High	EH
.40mm	900	2	2	3	4
	1200	2	3	4	4
.55mm	900	2	2	2	2
	1200	2	2	2	2

Fastener requirements for wind zones according to NZS 3604:2011 (calculated on periphery area pressures), using standard fasteners without load spreading washers. (Typically fasten through every rib to top and bottom purlins.)

For SED conditions and applications designed to AS/NZS 1170 contact Steel & Tube: 0800 333 247.

MINIMUM PITCH

In accordance with Acceptable Solution E2, the minimum pitch for **Plumbdek** for roofing dwellings is 3°.

Roof runs in excess of 40 metres should be checked for water runoff capacity.

FOOT TRAFFIC

Foot traffic up the roof must take place in the pan of the profile, or over purlin lines. Traffic across the roof must take place along purlin lines.

SPECIFICATIONS

Recommended specifications are available in the branded sections of Masterspec, or on our website: www.steelandtube.co.nz.

DESIGN DETAILS

Design details covering many applications are available on our website in CAD and PDF under each product section. Visit www.steelandtube.co.nz.

IMPORTANT PUBLICATIONS

For your installation to perform to its potential, it is essential that it is designed, installed and maintained in accordance with good trade practice. Please refer to:

- Steel & Tube: Roofing Solutions Product Guide
- BRANZ: Good Profiled Metal Roofing Practice
- MRM: New Zealand Metal Roofing and Wall Cladding Code of Practice
- E2/AS1

INSTALLERS

A list of installers for your area is available from your local Steel & Tube branch or visit www.steelandtube.co.nz.



BIM-spec™ is a one stop portal for all Steel & Tube's specification and technical content. It provides access to a large library of 2D and 3D CAD content and building information models (BIM) across a wide range of Steel & Tube product categories. The BIM-spec portal can be accessed through our website www.steelandtube.co.nz

Trademark Note:

Masterspec is a registered trademark of Construction Information Limited.

Plumbdek is a registered trademark of Steel & Tube Holdings Limited.