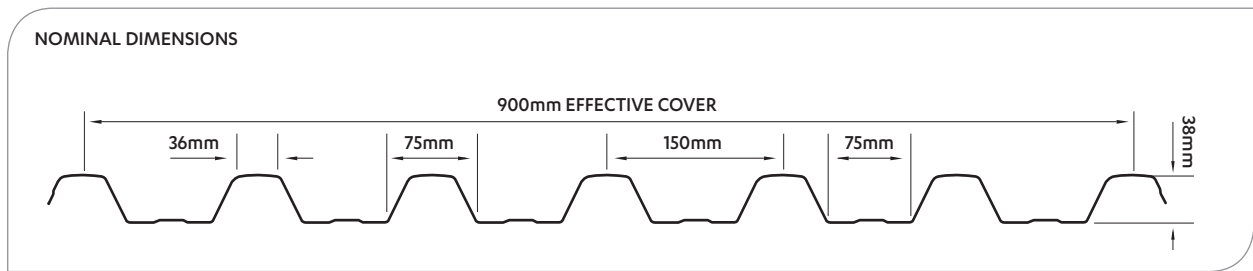


## ✦ Profiled Metal Roofing and Cladding



### DESCRIPTION

**ST900** is a medium rib profile. Developed for the commercial/industrial roofing and cladding markets, it is equally at home in residential settings where a bolder look is desired.

### APPLICATIONS

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

### FEATURES

**ST900** is distinguished by a subtle swage pan that adds stiffness to the pan, minimising canning and purlin line marking. Lapping ribs are interchangeable male/female, allowing flexibility to the installer, and feature a well-defined anti-capillary detail.

### OPTIONS

**ST900** in .55mm thickness can be crimp-curved to a minimum radius of 400mm. Matching translucent sheeting is available in GRP (fibreglass). The product can also be manufactured without the pan swage, in which case it should be specified and ordered as **STN900**.

### 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 65mm, Timberfix 12g x 75mm, 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 very severe marine environments.

### DURABILITY

All material selections must be compatible with prevailing environmental conditions and adjacent materials, see *Roofing Solutions Product Guide* or *Specifiers Guide* for details. Areas not exposed to rain washing will require programmed maintenance.

### WARRANTY PLUS

Steel & Tube **WarrantyPlus** is the most comprehensive warranty 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.

## SECTIONAL PROPERTIES

Measure Unit	Mass kg/m <sup>2</sup>	Area mm <sup>2</sup>	I mm <sup>4</sup>	Z Top mm <sup>3</sup>	Z Bottom mm <sup>3</sup>	Y (centroid) mm
.40mm B.M.T.	4.49	519	118851	5427	7382	16.1
.55mm B.M.T.	6.08	714	163480	7465	10154	16.1

**Notes:** 1. Properties are for 1 metre width of cladding 2. Values are nominal only 3. Yield strength is 550 MPa typical.

## PERFORMANCE DATA

Maximum spans for Normal and Heavy Traffic in millimetres. Distributed loads in kPa at maximum spans using 6 fasteners per sheet per support. Loads for alternative fastener frequencies available on request.

Gauge	Controlled Traffic*			
	Internal		End	
	Span	Load	Span	Load
.40mm	2400	2.95 st	1700	4.30 st
		2.19 sv		3.40 sv
.55mm	3500	3.15 st	2800	3.25 st
		1.90 sv		1.75 sv

Gauge	Heavy Traffic**			
	Internal		End	
	Span	Load	Span	Load
.40mm	1000	8.50 st	1000	7.10 st
		7.34 sv		6.40 sv
.55mm	2300	4.55 st	1700	6.10 st
		3.51 sv		3.00 sv

\* Supports 1.1kN to PAN at midspan. \*\* Supports 1.1kN to RIB at midspan.

st = Limit State Strength Load. sv = Limit State Serviceability Load.

Products tested in accordance with NZMCM recommendations.

## MINIMUM PITCH

In accordance with Acceptable Solution E2, the minimum pitch for **ST900** is 3°. Roof runs in excess of 65 metres should be checked for water runoff capacity.

## FOOT TRAFFIC

Foot traffic up the roof must take place with load spread equally across two ribs, or in the pan and against an adjacent rib. Traffic across the roof must take place along the purlin lines.

## SPECIFICATIONS

Recommended specifications are available in the branded sections of MasterSpec *BASIC* or MasterSpec *STANDARD*, or from your local Steel & Tube branch or visit our website.

## 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](http://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
- New Zealand Steel: Installation Guide
- New Zealand Steel: Builders and Specifiers Guide
- BRANZ: Good Profiled Metal Roofing Practice
- MRM: New Zealand Metal Roofing and Wall Cladding Code of Practice
- E2/AS1

## INSTALLERS

A list of local installers for your area and contract type is available from your local Steel & Tube branch or visit [www.steelandtube.co.nz](http://www.steelandtube.co.nz).

### Note:

Trademarks apply to the following products presented in this publication: ST900, MasterSpec *BASIC* and MasterSpec *STANDARD*.