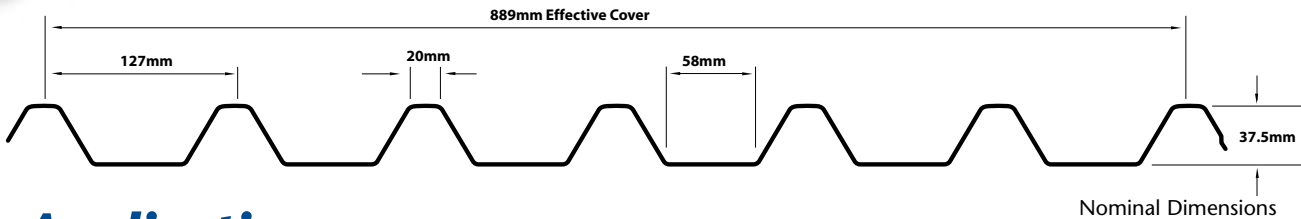


ST 7



Applications



Industrial/
Commercial
Roofing &
Cladding

INDUSTRIAL



Residential
Roofing &
Cladding

RESIDENTIAL



Canopies

CANOPIES

Introduction

ST 7 is a medium rib trapezoidal profile of popular configuration.

Features

The profile gives a classic look to all types of work, while the higher ribs give enhanced performance compared to low rib products, allowing better purlin/roofing design optimisation on commercial projects.

Options

Clear sheeting is available in GRP (fibreglass) to match the profile. The product can also be run with five ribs, normally to utilise common width coil stocks, in which case it is referred to as [ST 5](#). For pan-out cladding, the capillary swage is reversed and colour (if any) is to the obverse side of the sheet. For this configuration it should be specified and ordered as [STC 7](#).

Materials

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

Fasteners

Typically: Steelfix 12g x 75mm, Timberfix 14g x 75mm, class 4 minimum, of material compatible with that being fastened and durability no less than the sheet material. Provision for thermal expansion should be considered for lengths exceeding 12 metres.

Durability

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

Warranty Plus

Steel & Tube Warranty *Plus* is the most comprehensive warrant available in the industry. Warranty *Plus* 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.

Measure	Mass	Area	I	Z Top	Z Bottom	Y (centroid)
Unit	kg/m ²	mm ²	mm ⁴	mm ³	mm ³	mm
.40mm B.M.T.	4.55	535	114914	5130	7366	15.6
.55mm B.M.T.	6.17	736	158114	7059	10135	15.6

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 in millimetres for normal and heavy traffic conditions. Uniformly Distributed Loads in kPa at maximum spans using fasteners at alternate ribs. Loads for alternative fastener types and frequencies available on request.

Maximum Spans – Controlled Traffic			Serviceability Load	
Gauge	Internal	End	14g Tek	Profiled Washer
.40 Steel	1900	1300	1.2 kPa	1.55 kPa
.55 Steel	2950	1950	1.10 kPa	1.95 kPa
.70 Aluminium	2680	1780		1.58 kPa

Maximum Spans – Heavy Traffic			Serviceability Load	
Gauge	Internal	End	14g Tek	Profiled Washer
.40 Steel	1200	1000	1.55 kPa	2.00 kPa
.55 Steel	2000	1400	2.20 kPa	2.60 kPa

Products tested in accordance with NZMRM recommendations.

Minimum Pitch

In accordance with Acceptable Solution E2, the minimum pitch for ST 7 is 3°. Lesser-pitched designs are subject to Specific Design criteria. 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 the foot placed carefully in the pan and against an adjacent rib, or with weight spread equally across two adjacent ribs. Traffic across the roof must take place along purlin lines.

Installers

A list of Approved Installers for your area and contract type is available from your local Steel & Tube Roofing Products office, or our website.

Specifications

Recommended specifications are available in the branded sections of MasterSpec® BASIC or MasterSpec® STANDARD, or from your local Steel & Tube Roofing Products' office, or our website.

Design Details

Design details covering many applications are available in CAD or hard copy, or from our website.

Important

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 Products: Product Guide*
- *New Zealand Steel: Installation Guide*
- *New Zealand Steel: Builders and Specifiers Guide*
- *BRANZ: Good Profiled Metal Roofing Practice*

Technical Helpline: 0800 333 247 Website: www.stroofing.co.nz Email: info@stroofing.co.nz

Specification templates available on masterspec 09 631 7044

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