Profiled Metal Roofing and Cladding

ST7 is a medium rib trapezoidal profile of popular configuration.

APPLICATIONS
- Residential Roofing and Cladding
- Industrial/Commercial Roofing and Cladding
- Canopies

FEATURES
The profile of ST7 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 ST5. 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 STC7.

MATERIALS
Available in metallic coated and pre-painted steel in .40mm and .55 BMT (base metal thickness), aluminium plain and prepainted in .70mm 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. 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 warrant 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

<table>
<thead>
<tr>
<th>Measure Unit</th>
<th>Mass kg/m²</th>
<th>Area mm²</th>
<th>I mm⁴</th>
<th>Z Top mm</th>
<th>Z Bottom mm</th>
<th>Y (centroid) mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>.40mm B.M.T.</td>
<td>4.55</td>
<td>535</td>
<td>114914</td>
<td>5130</td>
<td>7366</td>
<td>15.6</td>
</tr>
<tr>
<td>.55mm B.M.T.</td>
<td>6.17</td>
<td>736</td>
<td>158114</td>
<td>7059</td>
<td>10135</td>
<td>15.6</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Internal</th>
<th>End</th>
<th>Serviceability Load</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14g Tek</td>
<td>Profiled Washer</td>
<td></td>
</tr>
<tr>
<td>.40 Steel</td>
<td>1900</td>
<td>1300</td>
<td>1.2 kPa</td>
</tr>
<tr>
<td>.55 Steel</td>
<td>2950</td>
<td>1950</td>
<td>1.10 kPa</td>
</tr>
<tr>
<td>.70 Aluminium</td>
<td>2680</td>
<td>1780</td>
<td>1.58 kPa</td>
</tr>
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<td>Profiled Washer</td>
<td></td>
</tr>
<tr>
<td>.40 Steel</td>
<td>1200</td>
<td>1000</td>
<td>1.55 kPa</td>
</tr>
<tr>
<td>.55 Steel</td>
<td>2000</td>
<td>1400</td>
<td>2.20 kPa</td>
</tr>
</tbody>
</table>

* Supports 1.1kN to PAN at midspan. ** Supports 1.1kN to RIB at midspan.
Products tested in accordance with NZMCM recommendations.

MINIMUM PITCH

In accordance with Acceptable Solution E2, the minimum pitch for ST7 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 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.

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.

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.

Note:

Trademarks apply to the following products presented in this publication:
ST7, MasterSpec BASIC and MasterSpec STANDARD.