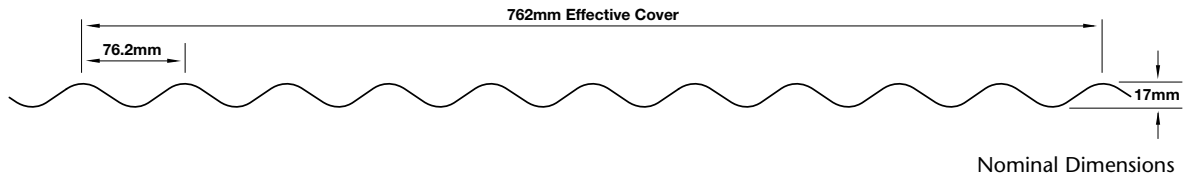


CUSTOM ORB

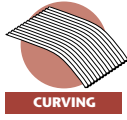


Applications



Residential
Roofing &
Cladding

RESIDENTIAL



Curving

CURVING



Specialty
Cladding

CLADDING



Industrial/
Commercial
Roofing &
Cladding

INDUSTRIAL



Ceilings &
Linings

LININGS

Introduction

Custom Orb is a premium quality corrugated profile manufactured under licence to BHP.

Features

Corrugated steel is a timeless classic. Custom Orb is manufactured to controlled tolerances, allowing it to be used with confidence in a great variety of applications.

Options

Custom Orb can be roll curved (bullnosed) to 400 mm radius, or spring curved to radii greater than 9 metres depending on grade, thickness and material used (see Spring Curved Custom Orb Design Guide for details). It is also popular in perforated patterns for decorative or sound control situations. Matching translucent sheeting is available in G.R.P. (fibreglass), Polycarbonate and PVC.

Materials

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

Fasteners

Typically: Steelfix 12g x 45mm, Timberfix 12g x 55mm, 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 in excess of 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 warranty 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.

Sectional Properties

CUSTOM ORB

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.	4.08	448	16182	1798	1798	9
.55mm B.M.T.	5.54	616	22258	2473	2473	9

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 3 fasteners per sheet per support. Loads for alternative fastener frequencies available on request.

Gauge	Controlled Traffic				Gauge	Heavy Traffic			
	Internal		End			Internal		End	
	Span	Load	Span	Load		Span	Load	Span	Load
.40mm	1200	6.72 st	800	8.05 st	.40mm	Not Recommended			
		1.34 sv							
.55mm	1600	5.67 st	1000	8.26 st	.55mm	1000	9.36 st	800	9.72 st
		1.53 sv					2.00 sv		2.28 sv

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

Minimum Pitch

In accordance with Acceptable Solution E2, the minimum pitch for Custom Orb for roofing dwellings is 8°. Lesser-pitched designs are subject to Specific Design criteria. Roof runs in excess of 12 metres should be checked for water runoff capacity.

Foot Traffic

Foot Traffic up the roof must take place with load spread equally across two crests, or over purlin lines. 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' sales office.

Specifications

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

Design Details

Design details covering many applications are available on our website www.strooing.co.nz, in CAD or PDF, or contact us for a CD or hard copy.

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*
- *Steel & Tube Roofing Products: Spring Curved Custom Orb Design Guide*

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STEEL & TUBE
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