

Mini Orb

Corrugated iron was first invented and patented in England in the early 1830s and was the first mass-produced cladding material of the modern building industry. By the early 1850s, it had arrived in New Zealand and was soon adopted for buildings as diverse as huts on the early gold fields, for agricultural buildings and of course for houses, commercial buildings and factories. New Zealand has never lost its love for this practical and versatile profile, and today it is in as much evidence and demand as it was at the very beginning.

Originally only available in restricted lengths, the advent of long-run technology in the mid 20th century made corrugated metal even more popular. The new process allowed faster and more economical production, greater consistency length-to-length, and avoided the need for multiple end laps.

Steel & Tube has applied these principles to the manufacture of Mini Orb, a profile that is just as visually pleasing and versatile as its 'bigger brother' except on a smaller scale. Although originally adopted for use with interior design projects, Mini Orb is now finding increasing utility in exterior applications.

The close sinusoidal curves that define Mini Orb's form also provide the function, by stiffening the sheet to allow it to withstand distributed and impact loads, and providing a weathertight side lap.

Mini Orb is available in the full palette of colours from the Colorsteel® Endura™ and Maxx™ ranges. It is also available in other materials such as Colorcote ARX, VM Zinc Quartz, VM Zinc Anthra, Copper and Stainless Steel.

Take a closer look at specifying long-run Mini Orb by Steel & Tube. Manufactured to perform under New Zealand's unique environmental conditions, Mini Orb adds form, function and style to buildings, both inside and out.

Durability

All material selections must be compatible with prevailing environmental conditions and adjacent materials. Refer New Zealand Steel Specifiers and Builders Guide 2005 for steel based products. In particular, areas of Zinalume or Colorsteel exposed to salt spray, but not rain washing, will require regular programmed maintenance. In high risk unwashed areas, a non-ferrous substrate is recommended.

Installation

Handling and installation of Mini Orb should be carried out by competent tradespeople with appropriate care being taken in visually prominent areas.

Generally, design details for Mini Orb cladding can be based on scaled-down versions of published details for vertical and horizontal Custom Orb cladding. For specific information and design details contact our Technical Helpline on 0800 333 247 or info@stroofing.co.nz.

Mini Orb may be used as roofing on open structures not requiring compliance with NZBC Clause E2.

Material Selection

The following is a selection of the more popular choices for Mini Orb.

Steel

With 24 Colours in Colorsteel Endura and 12 in Colorsteel Maxx, Mini Orb is available in a comprehensive colour palette. Also available in Metallic colours in Colorcote, and unpainted Zinalume and Galvanised.

Typical Thickness: .40mm and .55mm

Colorsteel® Endura – Pacific Blue



Aluminium

Pre-painted Colorcote ARX or plain aluminium of marine grade 5052 alloy in H36 hardness, giving exceptional durability in harsh marine and unwashed environments. Uncoated aluminium can be Plain Mill finish or Embossed.

Typical thickness: .70mm and .90mm

Colorcote® ARX – Metallic Silver

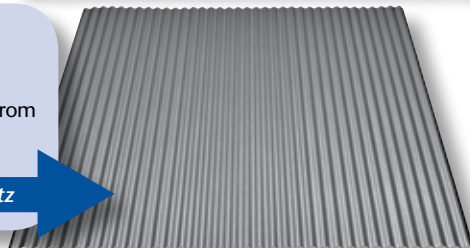


VM Zinc Quartz & Anthra

99.5% pure zinc with titanium and copper alloy additives for improved formability and durability. VM Zinc is pre-patinated to give a weathered look from the very first day Quartz to a mid-grey tone and Anthra to a dark-grey tone.

Typical Thickness: .70mm

VM Zinc Quartz



Copper

Enjoy the timeless beauty and longevity of copper which weathers to a green or brown patina according to conditions.

Typical Thickness: .60mm and .70mmT

Copper



Stainless Steel

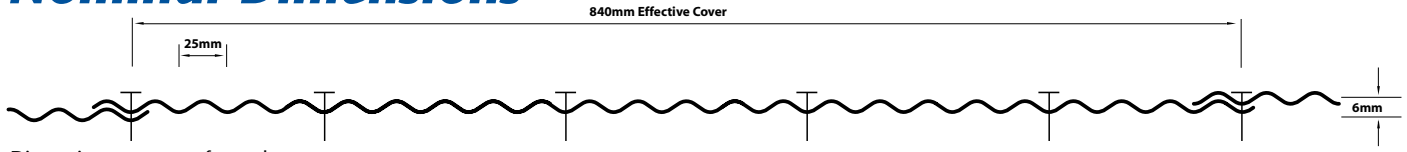
Grade 445M2 stainless gives a durability which at least equals (and most often exceeds) that of 316 stainless yet with the formability of carbon steel, at an economic price. Available in satin and bright finishes.

Typical Thickness: .55mm

Stainless Steel



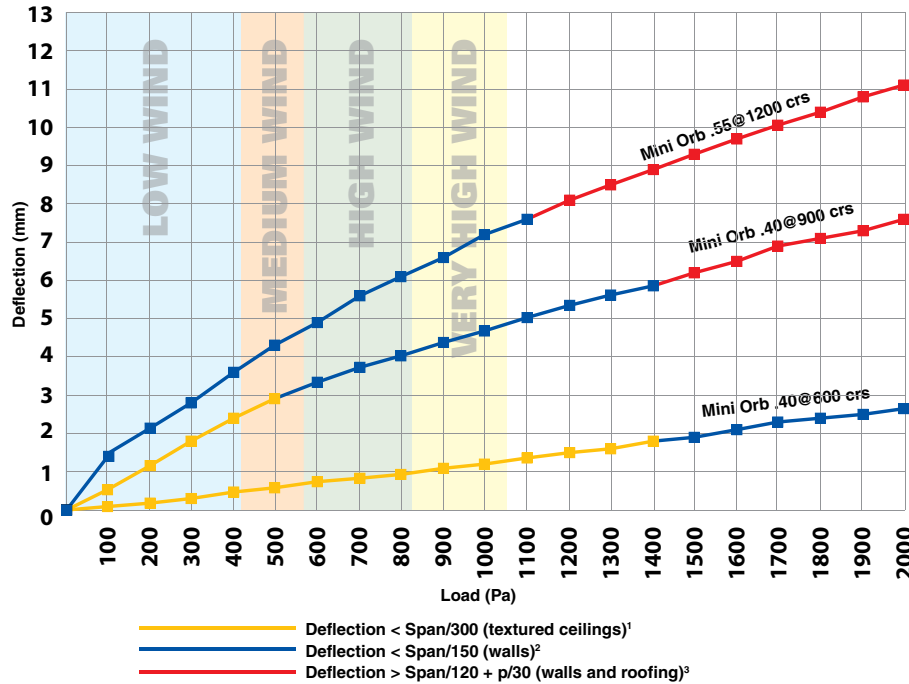
Nominal Dimensions



Dimensions may vary from above.

Load/Deflection Graph

(Fasteners at 150mm centres)



¹ Deflection < span/300 in accordance with AS/ZS 1170.0:2002 recommendations for textured ceilings.
² Deflection < span/150 in accordance with AS/ZS 1170.0:2002 recommendations for wall claddings.
³ Deflection < span/120 + p/30, where p is the maximum spacing between fasteners, in accordance with AS/1562.1:1992 recommendations for roof and wall cladding.

Important Publications

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

- New Zealand Steel: Installation Guide**
- New Zealand Steel: Builders and Specifiers Guide**
- New Zealand Metal Roofing Manufacturers Inc.: Code of Practice**

Many jobs present challenges that require specific design advice. For these, our team of experts is on hand to provide a customised solution.

Installers

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

Delivery

Delivered orders will incur a pallet charge.

Fasteners

	Fastening to Timber	
	Direct Fixed	Batten Fixed
Internal	10g x 25mm Timbertite	N/A
External Min Class 4 durability	12g x 25mm Timbertite with sealing washer	12g x 50mm Timbertite with sealing washer
	Fastening to Steel	
	Direct Fixed	Batten Fixed
Internal	10g x 16mm Steeltite	N/A
External Min Class 4 durability	10g x 16mm Steeltite with sealing washer	12g x 35mm Steeltite with sealing washer

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ROOFING PRODUCTS