



CUSTOM ORB® 762



Traditional Corrugated Steel Cladding



CUSTOM ORB® 762

LYSAGHT CUSTOM ORB® 762 is a corrugated profile, equally at home with traditional and contemporary design. It is long, wide, strong, lightweight and economical. It can be aligned quickly and easily. Add up these features and you have a steel roof or wall cladding that simply offers outstanding value.

CUSTOM ORB® 762 is made of high strength steel and despite its lightness provides excellent spanning capacity and remarkable recovery after deformation.

Simple, low-cost fixing

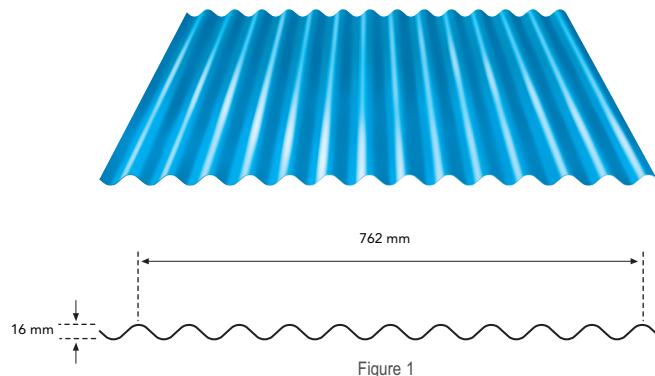
CUSTOM ORB® 762 can be fixed with hex head screws, which is fast and simple. The standard overlap is one and a half corrugations.

Curving

CUSTOM ORB® 762 can be curved for stylish architectural designs. For bull nosing, use 0.60 mm BMT, G300 MPa.

Minimum roof pitch

A special anti-capillary forming in the side lap allows you to use CUSTOM ORB® 762 on roof pitches as low as 5 degrees (1 in 12). Sheet lengths of up to 24 m can be used before an expansion joint is required.



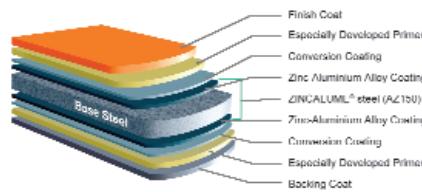
Profile

LYSAGHT CUSTOM ORB® 762 is 762 mm wide coverage profile with nominal 16 mm deep ribs. (Please refer fig. 1)

Material specifications

LYSAGHT CUSTOM ORB® 762 is manufactured out of high strength steel grade with minimum yield strength of 550 MPa. The coated steel is ZINCALUME® zinc/aluminium alloy-coated steel complying with AS 1397, G550, AZ150 (550 MPa minimum yield stress, 150 g/m² minimum coating mass); or Clean COLORBOND® pre-painted steel conforming to AS/NZS 2728 Type 3-4.

(Please refer to ZINCALUME® steel and Clean COLORBOND® steel brochure for details)



Cross Sectional View of Clean COLORBOND® steel

Lengths

Sheets are supplied custom cut.

Tolerances

Length: + 10 mm, - 10 mm

Width: + 4 mm, - 4 mm

Masses

LYSAGHT CUSTOM ORB® 762			
tBMT*	TCT*	Product	kg/m ²
0.35	0.40	ZINCALUME® steel / Clean COLORBOND® steel	3.67
0.42	0.47	ZINCALUME® steel Clean COLORBOND® steel	4.37

* Dimensions are in mm



Maximum support spacings

The maximum recommended support spacings are based on testing in accordance with AS1562.1-1992, AS4040.1-1992 and AS4040.2-1992.

Roof spans consider both resistance to wind pressure and light roof traffic (traffic arising from incidental maintenance). Wall spans consider resistance to wind pressure only.

Maximum Support Spacings (mm)		
Type of span	Total Coated Thickness (mm)	
	0.35	0.42
Roofs		
Internal Span	900	1200
End Span	650	900
Walls		
Internal Span	1300	1800
End Span	1000	1350

• For roofs, the data are based on foot-traffic loading.
 • For walls, the data are based on pressure (see pressure table)
 • Tables are based on supports on 1 mm BMT.
 • Draft version only for guidance. Please contact BlueScope Lysaght Lanka Office before adopting for design.

Maximum roof lengths for drainage measured from ridge to gutter (m)

Penetrations will alter the flow of water on a roof. For assistance in design of roofs with penetrations, please seek advice from your nearest BlueScope Lysaght Lanka office.

Maximum Roof Run (m) as based on CSIRO* Formula						
Rainfall Intensity mm/hr	Roof Slope					
	1°	2°	3°	5°	7.5°	10°
100	-	-	-	45	54	58
LYSAGHT	150	-	-	30	35	38
CUSTOM ORB® 762	200	-	-	22	26	28
Flow Area	250	-	-	18	21	23
	300	-	-	14	11	19
	400	-	-	11	13	14

*Commonwealth Scientific & Industrial Research Organisation

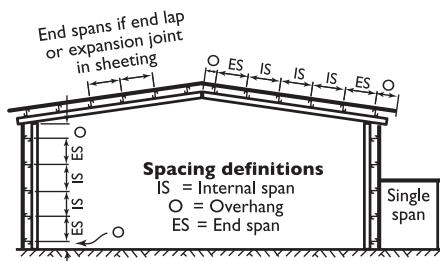
Limit states wind pressures

CUSTOM ORB® 762 offers the full benefits of the latest methods for modeling wind pressures. The Wind pressure capacity table is determined by full-scale tests conducted at BlueScope Steel's NATA- registered testing laboratory, using the direct pressure-testing rig.

Testing was conducted in accordance with AS 1562.1-1992 *Design and Installation of Sheet Roof and Wall Cladding-Metal*, and AS 4040.2-1992 *Resistance to Wind Pressure for Non-cyclonic Regions*.

The pressure capacities for serviceability are based on a deflection limit of (span/120) + (maximum fastener pitch/30).

The pressure capacities for strength have been determined by testing the cladding to failure (ultimate capacity). These pressures are applicable when the cladding is fixed to a minimum of 1.0 mm, G550 steel.



Metal & timber compatibility

Lead, copper, free carbon, bare steel and green or some chemically treated timber is not compatible with this product. Do not allow any contact of the product with those materials, nor discharge of rainwater from them onto the product.

Supporting members should be coated to avoid problems with underside condensation. If there are doubts about the compatibility of other products being used, ask for advice from your nearest BlueScope Lysaght Lanka office



Adverse conditions

If this product is to be used in marine, severe industrial, or unusually corrosive environments, ask for advice from your nearest BlueScope Lysaght Lanka office.

Maintenance

Optimum product life will be achieved if all external walls are washed regularly. Areas not cleaned by natural rainfall (such as the tops of walls sheltered by eaves) should be washed down every six months.

Sealed joints

For sealed joints use screws or rivets and neutral-cure silicone sealant branded as suitable for use with galvanised or ZINCALUME® steel.

Storage and handling

Keep the product dry and clear of the ground. If stacked or bundled product becomes wet, separate, and wipe it with a clean cloth to dry thoroughly.

Handle materials carefully to avoid damage: don't drag

materials over rough surfaces or each other; don't drag tools over material; protect from swarf.

Cutting

For cutting thin metal on site, we recommend a circular saw with a metal cutting blade because it produces fewer damaging hot metal particles and leaves less resultant burr than does a carborundum disc.

Cut materials over the ground and not over other materials.

Sweep all metallic swarf and other debris from roof areas and gutters at the end of each day and at the completion of the installation. Failure to do so can lead to surface staining when the metal particles rust.

Non- Cyclonic Areas

The information in this brochure is suitable for use only in areas where a tropical cyclone is unlikely to occur.

Ask for advice from your nearest BlueScope Lysaght Lanka office on designs to be used in cyclonic areas.



Installation

Fastening sheets to supports

CUSTOM ORB® 762 is pierce-fixed to steel or timber supports. This means that fastener screws pass through the sheeting. To maximize water tightness, always place roof screws through the crests. For walling, you may use either crest- or valley fixing. (*Please refer fig. 2*)

Always drive the screws perpendicular to the sheeting, and in the center of the corrugation or rib.

Don't place fasteners less than 25 mm from the ends of sheets.

Side-laps

CUSTOM ORB® 762 standard lap is 1.5 corrugations. It is generally considered good practice to use fasteners along side-laps however, when cladding is supported as indicated in maximum support spacings; side-lap fasteners are not usually needed.

End lapping

End-laps are not usually necessary because CUSTOM ORB® 762 is available in long lengths. If end-laps are used, complete each run of sheets from gutter to ridge.

Seal end lap at both ends with a 3 mm bead of neutral cure silicone sealant.

For roofs, allow a minimum end-lap of 200 mm for pitches of 5 to 15 degrees, and 150 mm for pitches above 15 degrees. For walls, allow minimum endlaps of 100 mm.

Where you intend to end-lap CUSTOM ORB® 762 sheeting with curved sections of CUSTOM ORB® 762, order them at the same time to ensure a good fit.

Ends of sheets

It is usual to allow roof sheets to overlap into gutters by about 50 mm. The valleys of sheets should be turned-

down at lower ends, and turned-up at upper ends. Use five fastenings at the ends of sheets.

Laying procedure

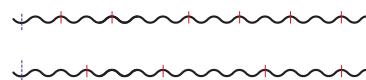
For maximum weather-tightness, start laying sheets from the end of the building that will be in the lee of the worst anticipated or prevailing weather.

Lay sheets toward prevailing weather. It is much easier and safer to turn sheets on the ground than up on the roof.

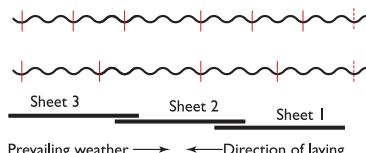
Before lifting sheets on to the roof, check that they are the correct way up and the overlapping side is towards the edge of the roof from which installation will start.

Place bundles of sheets over or near firm supports, not at mid span of roof members.

CUSTOM ORB® 762 Roof - Screw fix through rib



Wall - Screw fix through pan



Crest fixing for roof or walls



Valley fixing for walls only

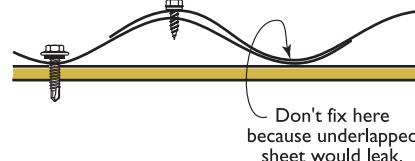


Figure 2 - Fastening sheets to support



LYSAGHT CUSTOM ORB® 762 - Design Advantages

- CUSTOM ORB® 762 is a smooth sinusoidal profile offers flexibility of design for roof and wall cladding application
- Long lasting ZINCALUME® and Clean COLORBOND® steel base
- Wider profile makes it quicker to cover large area in shortest possible time
- Strong, lightweight and economical
- It can be fixed quickly and easily
- Wall panels can be installed in horizontal as well as in vertical direction
- It can be curved for stylish architectural design (by using G300 grade material)
- Available in an attractive range of colors in Clean COLORBOND® steel and in unpainted ZINCALUME® steel



For more information, please contact -

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