

Steeline Steel Rib 500

CONCEALED FIXED ROOF
OR WALL CLADDING
ST28



Colorbond® Zincolume®

Steel Rib 500 hi-tensile steel cladding material is produced in 2 thicknesses, in long lengths suitable for roof and wall cladding applications. Each sheet has a 500mm cover width, and is designed to lock down over concealed fixing clips. These in turn are fixed to the supporting members. Alternatively it can be screwed through the ribs like other pierce fixed profiles. Manufactured locally by continuously roll-forming prefinished material, Steeline Steel Rib 500, is a low cost, high quality product.

Ph. 1300 STEELINE

steeline.com.au



Service over and above

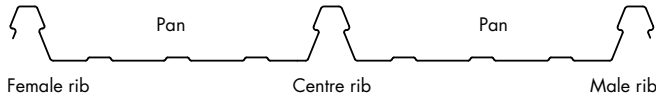
Steeline Steel Rib 500

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Installation

Method

The profile of Steel-Rib consists of 3 ribs connected by 2 intermediate pans.



Preparation

Ensure that the tops of the purlins or battens are all in the one plane by packing or easing between purlin and support. (Not between purlin and clip).

Spring Clip System

For roof pitches below 15°, turn the pans at the top of the sheets up at 90° using a turn-up tool. This prevents the entry of water which may be driven by wind beneath the flashing.

Lipping

For roof pitches below 15°, turn the pans at the bottom ends of the sheets down at 30° to prevent water running back along the underside of the sheet.

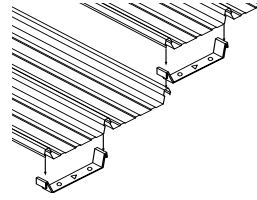
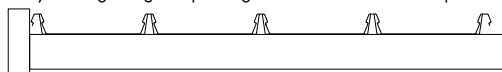
Sheet Laying Sequence

1. Fix the first line of clips, locating so that roof will be square. One clip is fitted to every support using the correct fasteners, with arrows pointing in the direction of laying.

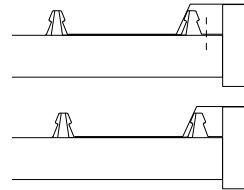
2. Lay the first sheet with the correct overhang each end. The female and centre ribs go onto the clips and must be snapped home by pressing the sheets onto the clips.

3. Fix the second row of clips placing the short leg over the male rib of sheet 1.

4. Lay sheet 2 with ends in line with sheet 1. The centre rib goes onto the long legs of the clips. The female rib goes onto the male rib of sheet 1 and must be engaged along the full length by walking along and pressing down with the foot until clips home.



5. Repeat steps 3 and 4 for the remaining roof area checking and adjusting for parallelism every 3-4 sheets. The female rib is fitted over the top of the male rib and securely clips into position. Specially designed clips are used to secure the Steel-rib sheeting down onto the supports. Each clip has 2 legs, one long and one short which correspond to the centre and female ribs of the Steel-rib sheeting. The short rib also clamps the male rib down. The whole deck is progressively clipped down in this manner.



6. At the end, if the remaining gap is less than half the sheet width, cut the fast line of clips in two and use only the short leg to clamp down the final male rib. If the gap is larger, use full clips as before and cut the male rib off the last sheet and clip down onto the clips.

Recommended fasteners for clip systems

Steel framing (up to 5mm) - No 12x16 wafer head self drilling tek steel framing (>5mm) - No 10x16 Wafer Head Type 23 Thread Cutting Screws.

Hardwood - No 10x25 Wafer Head Type 17 Self Drilling Screw (Alt: 3.75x50 Countersunk Head Spiral Shank Galv. Nail)

Softwood - No 10x45 Wafer Head Type 17 Self Drilling Screw.

Screw Fixing

When screw fixing every rib on every batten should be fastened with 14 x 75 for timber and 14 x 65 for metal.

Precautions

Wear soft soled shoes which cannot pick up shavings to ensure the protective coating is not damaged. Walk only in the pans of the sheets. Sheets should be laid in the opposite direction to the prevailing weather.

Coverage

Each sheet of Steel-rib has an effective coverage of 500mm+2mm.

Roof Pitch

When the ribs of Steel-rib are snapped together an anti-capillary space is formed, preventing the entry of water. Because of the deep and widely spaced ribs, Steel-rib has very good water run-off capabilities, and can be used down to roof pitches as low as 1o (1 in 60).

NON CYCLONIC

BASE MATERIAL THICKNESS	ROOF SPANS					WALL SPANS			
	SINGLE	END	INTERNAL	OVERHANG UNSTIFFENED	OVERHANG STIFFENED	SINGLE	END	INTERNAL	OVER-HANG
0.42 (G550)	1100	1300	1400	200	600	2200	2200	2400	300
0.48 (G550)	1600	1900	2200	200	600	2300	2700	2700	400

CYCLONIC

BASE MATERIAL THICKNESS	ROOF SPANS UP TO 5M HIGH					WALL SPANS			
	SINGLE	END	INTERNAL	OVERHANG UNSTIFFENED	OVERHANG STIFFENED	SINGLE	END	INTERNAL	OVER-HANG
0.42 (G550)	1000	1210	1530	150	400	2000	2000	2200	200
0.48 (G550)	1250	1520	1920	150	400	2100	2400	2400	300