



**LYSAGHT®**



## PANELRIB® 1110

High Strength | Attractive Appearance | Lightweight | Quick Installation



# PANELRIB® 1110

LYSAGHT PANELRIB® 1110 is an attractive, slightly fluted wall and ceiling cladding for exterior and interior use on straight or curved surfaces. PANELRIB® 1110 is manufactured out of high strength steel and has longitudinal flutes that provide rigidity and strength along the length of the sheet, while retaining full flexibility across the width. It can be used with the flutes vertically or horizontally. However, PANELRIB® 1110 is not intended to be used as a roofing material.

## Features:

- The elegant appearance makes it suitable for many applications where a flat sheet would not normally be considered.
- It is suitable for false ceiling and wall partition screens, garage doors, fascias and barge boards.
- The profile can be installed both vertically and horizontally.
- Its long, straight lengths minimise fixing costs.

## Profile

PANELRIB® is a 1110 mm wide coverage profile with nominal 3.5 mm deep rib with a pitch of nominal 50.5 mm centre to centre distance. (Please refer Fig. 1)

## Material Specification

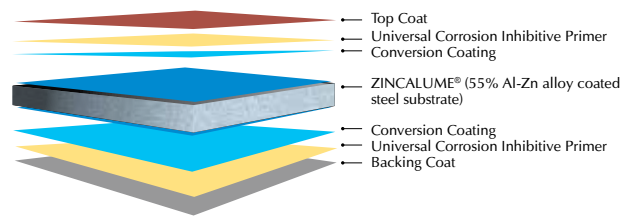


(Fig. 1)

PANELRIB® 1110 is manufactured from COLORBOND® XRW steel, high tensile steel with minimum 550 MPa yield strength, metallic hot-dipped coated with Al-Zn alloy (55% Aluminium, 43.5% Zinc, 1.5% Si) as per AS1397/ IS15961 standards and ZINCALUME® AZ150 (min. 150 g/m<sup>2</sup> total on both sides) with Super Durable Polyester COLORBOND® XRW steel\* quality paint system of approved color, suitable for exterior application conforming to AS/NZS 2728 type-4 / IS15965 class 3 of Tata BlueScope Steel make. The sheets have a total coating thickness of 35 microns, super durable polyester COLORBOND® XRW quality paint system of 20 microns on exposed surface and 5 micron reverse polyester coat on back surface and over 5 micron primer coat on both surfaces.

The paint system is made of stable resin & inorganic pigments for paint durability and is lead free, making it suitable for rainwater harvesting. The sheets have a brand marking of the coated steel manufacturer along with relevant details on back side at regular intervals confirming genuineness of the material.

\*Standard offering includes COLORBOND® XRW steel but other options like COLORBOND® Ultra steel, COLORBOND® XPD steel and COLORBOND® Metallic steel can also be used as per prevailing site conditions and respective specification.



Cross Sectional View of COLORBOND® steel

## Length

Sheets are supplied custom cut to length.

## Tolerances

Length: + 0 mm, - 15 mm

Width: + 0 mm, - 4 mm

## Masses

PANELRIB® 1110				
BMT*	TCT*	Product	kg/m	kg/m <sup>2</sup>
0.35	0.40	ZINCALUME® steel	3.56	3.21
0.35	0.40	COLORBOND® steel	3.63	3.27
0.40	0.45	ZINCALUME® steel	4.04	3.63
0.40	0.45	COLORBOND® steel	4.11	3.70
0.42	0.47	ZINCALUME® steel	4.23	3.81
0.42	0.47	COLORBOND® steel	4.30	3.88

\* Dimensions are in mm

(Table 1)

## Maximum Support Spacing (in millimetres)

The maximum recommended support spacings are based on tests conducted in accordance with AS1562.1-1992, AS4040.1-1992 and AS4040.2-1992. Wall Span considers resistance to wind pressure only. The pressure considered (in accordance with IS 875.3) is based on buildings up to 10m height, Zone 3 (Basic wind speed  $V_b = 47\text{m/s}$ ), Class A, Terrain category 3,  $k_1 = 1.0$ ,  $k_2 = 0.91$ ,  $k_3 = 1.0$ , with the following assumptions made:

**Walls:**

C<sub>pe</sub> = - 0.80 (internal cladding spans)

C<sub>pe</sub> = - 1.20 (single and end cladding spans)

C<sub>pi</sub> = + 0.2

These spacings may vary for particular projects, depending on specific structural characteristics.

(Please refer Table 2 & Fig. 2)

Maximum Support Spacings (mm)			
Total Coated Thickness (mm)			
Type of span	0.35	0.40	0.45
<b>Walls</b>			
Single Span	850	950	1000
End Span	950	1050	1100
Internal Span	1000	1150	1150
Overhang			

- For walls, the data are based on pressure (see pressure table)  
 - Tables are based on supports of 1 mm BMT  
 - Please contact Tata BlueScope Steel Office before adopting for design

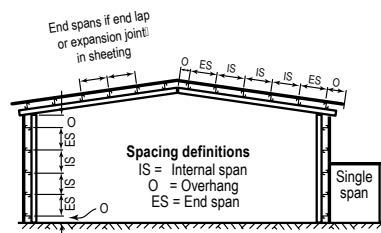
(Table 2)

**Limit State Wind Pressure**

PANELRIB® 1110 offers the full benefits of the latest methods for modelling 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. Tests were 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 Pressures for Non-cyclonic Regions*. The pressure capacities for serviceability are based on a deflection limit of  $(span/120) + (maximum\ fastener\ pitch/30)$ . (Refer Table 3)

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. (For material less than 1.0 mm thick, seek advice from your nearest Tata BlueScope Steel office.)



(Fig. 2)

PANELRIB® 1110: Limit state wind pressure capacities (kPa)															
Span Type	Fasteners per sheet per support		Span (mm)												
			600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
PANELRIB® 1110 - 0.40 mm Base Metal Thickness (0.45 mm Total Coated Thickness)															
SINGLE	5	Serviceability	3.23	2.71	2.21	1.75	1.32	0.95	0.66	0.44	0.29	0.19	0.14	0.13	0.12
		Strength*	13.00	11.50	10.05	8.70	7.45	6.35	5.50	4.80	4.35	4.05	3.85	3.75	3.65
	11	Serviceability	2.71	2.28	1.87	1.48	1.12	0.81	0.57	0.37	0.24	0.16	0.11	0.08	0.07
		Strength*	15.80	14.45	13.15	11.90	10.80	9.70	8.80	8.05	7.45	6.90	6.50	6.10	5.75
END	5	Serviceability	4.45	3.77	3.12	2.50	1.94	1.45	1.05	0.75	0.54	0.40	0.32	0.26	0.24
		Strength*	9.35	8.35	7.40	6.45	5.60	4.85	4.25	3.75	3.40	3.20	3.05	2.90	2.85
	11	Serviceability	3.70	3.13	2.57	2.04	1.57	1.15	0.82	0.57	0.41	0.31	0.25	0.23	0.23
		Strength*	12.75	11.90	11.05	10.25	9.50	8.80	8.15	7.55	7.00	6.55	6.10	5.70	5.30
INTERNAL	5	Serviceability	4.28	3.64	3.02	2.43	1.90	1.43	1.05	0.76	0.56	0.42	0.34	0.29	0.25
		Strength*	12.70	11.50	10.35	9.25	8.20	7.30	6.55	5.95	5.45	5.10	4.80	4.60	4.40
	11	Serviceability	3.16	2.67	2.20	1.76	1.36	1.00	0.73	0.52	0.38	0.30	0.25	0.24	0.24
		Strength*	13.60	12.50	11.50	10.50	9.55	8.70	8.00	7.40	6.90	6.50	6.20	5.90	5.65
PANELRIB® 1110 - 0.45 mm Base Metal Thickness (0.50 mm Total Coated Thickness)															
SINGLE	5	Serviceability	3.65	3.07	2.51	1.99	1.51	1.09	0.76	0.51	0.34	0.23	0.17	0.15	0.14
		Strength*	14.20	12.70	11.25	9.85	8.60	7.50	6.60	5.90	5.35	5.00	4.75	4.60	4.45
	11	Serviceability	2.80	2.37	1.96	1.57	1.21	0.90	0.65	0.45	0.31	0.22	0.15	0.11	0.09
		Strength*	16.70	15.55	14.40	13.30	12.30	11.30	10.45	9.70	9.00	8.40	7.85	7.30	6.85
END	5	Serviceability	5.31	4.47	3.65	2.88	2.19	1.58	1.10	0.74	0.50	0.36	0.29	0.26	0.26
		Strength*	10.95	9.75	8.60	7.50	6.50	5.60	4.90	4.35	3.95	3.70	3.55	3.40	3.35
	11	Serviceability	4.26	3.60	2.96	2.35	1.81	1.33	0.95	0.66	0.47	0.35	0.29	0.26	0.26
		Strength*	13.50	12.65	11.85	11.05	10.30	9.60	8.90	8.30	7.70	7.20	6.65	6.20	5.70
INTERNAL	5	Serviceability	5.55	4.67	3.82	3.01	2.28	1.65	1.15	0.78	0.53	0.38	0.31	0.29	0.29
		Strength*	12.50	11.05	9.60	8.30	7.10	6.05	5.20	4.55	4.15	3.85	3.75	3.65	3.65
	11	Serviceability	3.59	3.02	2.48	1.96	1.50	1.09	0.77	0.53	0.37	0.27	0.22	0.20	0.20
		Strength*	14.50	13.50	12.60	11.70	10.80	10.00	9.30	8.70	8.15	7.65	7.20	6.80	6.40

\*A capacity reduction factor of  $\phi=0.9$  has been applied to strength capacities. Supports must be not less than 1 mm BMT.

\*Please contact Tata BlueScope Steel office before adopting for design.

\*Non standard colours and sizes are also available on special request.

The above data has been derived from tests conducted at our research centre and reproduction of the same in any form is strictly prohibited.

(Table 3)





## PANELRIB® 1110 - Design Advantages

- Slightly fluted panel gives attractive look
- Suitable for wall cladding for interior and exterior application
- Suitable for false ceiling and wall partition
- Panels can be installed in horizontal as well as in vertical direction
- Appealing architectural appearance and multiple colour choice



For further technical assistance mail us at : [lysaght@tatabluescopesteel.com](mailto:lysaght@tatabluescopesteel.com)

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