



Delivering Excellence, Building Solutions.

**SIMPLE**  
LOW COST FIXING

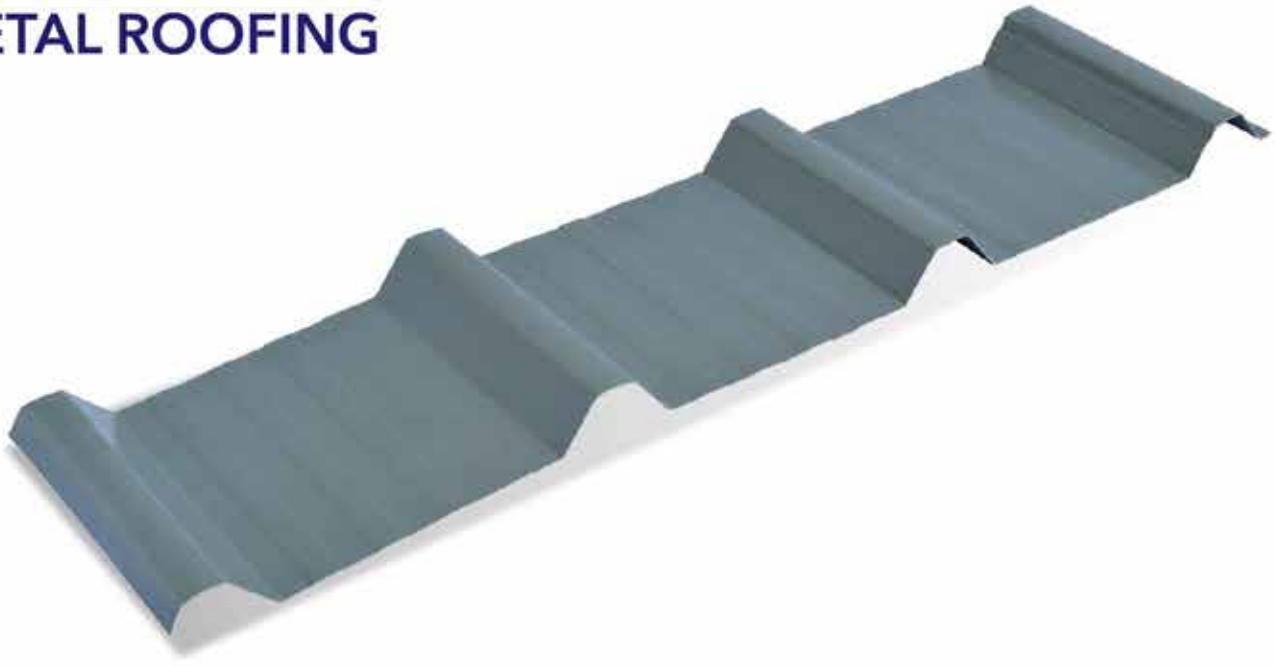
# TH RIB 30



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## METAL ROOFING



**TH RIB 30** is a versatile roof and wall cladding featuring bold, trapezoidal ribs and three subtle fluted pans. Which is Ideal for commercial, residential and industrial building.

**TH RIB 30** is made of high strength steel and despite its lightness, provide long length and excellent spanning capacity.

- Available in long length so one continuous sheet may be used from ridge to gutter or full wall length without end laps.
- The strength, spanning ability, lightness and rigidity of **TH RIB 30** means wide support spacings can be used with safely.
- Can be custom made lengths with options for on-site forming.
- Conformity to international building codes and standards.
- Available in convex shapes to provide versatility and creativity to building design.



## TECHNICAL SPECIFICATIONS

Thickness								
BMT in mm	0.35	0.42	0.48	0.55				
TCT in mm	0.40	0.47	0.53	0.60				
Effective Coverage Width (mm)	750.00	750.00	750.00	750.00				
Rib Height (mm)	30.00	30.00	30.00	30.00				
Tolerance								
Effective Cover Width	±3mm							
Mass	Zincalume	Clean Colorbond	Zincalume	Clean Colorbond	Zincalume	Clean Colorbond	Zincalume	Clean Colorbond
Mass Per Unit Area kg/m <sup>2</sup>	3.55	3.63	4.22	4.30	4.80	4.87	5.47	5.54
Mass Per Unit Length kg/m	2.67	2.72	3.17	3.22	3.60	3.65	4.10	4.16
Maximum Allowable Support Spacings Roof Applications								
Single Span (mm)	1200	1500	1900	2100				
End Span (mm)	1200	1500	1900	2100				
Internal Span (mm)	1500	1800	2200	2400				
Overhang (mm)	150	150	150	250				
Wall Applications								
Single Span (mm)	1200	1550	2200	2400				
End Span (mm)	1300	1650	2300	2500				
Internal Span (mm)	2400	2700	2900	3000				
Overhang (mm)	200	200	200	250				
Minimum Pitch								
Sheet Length	2' (1 in 20 approx)							
Grade of Steel	G550 (550N/mm <sup>2</sup> yield strength)							
Coating Class (min)	AZ150							

## WATER RUN OFF

### RECOMMENDED MAXIMUM ROOF LENGTH (Meter)

Slope in Degree	2°	5°	7°	10°	12°
	Rainfall (mm/h)				
250	62	80	94	113	124
300	51	66	79	94	103
350	44	57	67	81	88
400	38	50	59	70	77

## DIMENSION



## SAMPLES OF SPECIFICATION

TH RIB 30 0.47mm Total Coating Thickness (TCT) roofing sheets in AZ150 G550 **Clean Colorbond®** XRW Steel (Colour TBA) pierced fastened with self drilling screws with hex, washer head and EPDM seal - Complying to AS3566 Class 3 minimum; fixed to metal purlins.

## CURVING

Crimp curve TH RIB 30 steel cladding is available in convex shapes to provide versatility and creativity to bring new and refreshing design to commercial, industrial, civic and domestic building

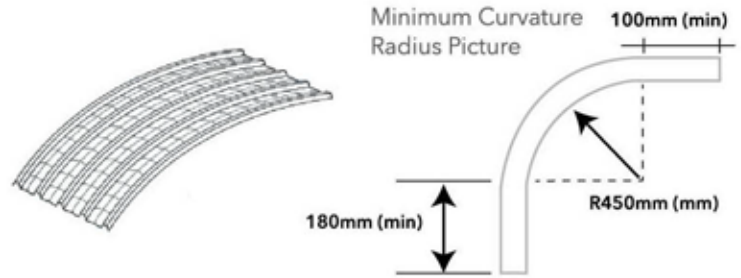
- Less cladding material required to cover a given curve
- Simplified and reduced work involved in installation of fascia cladding
- Less supporting framework required for fascias, parapets and roofs

## CURVATURE

### Curving

- Nature Curve : > 30mm Radius
- Crimp Curve (Convex) : > 450mm Radius

## TH RIB 30 CRIMP CURVE



## ZINCALUME® steel and Clean COLORBOND® steel

Strong brands, quality materials

Thung Hing Products are manufactured from high quality zincalme steel and clean colorbond steel, which and leading brands with a wide range of applications. These products have been used with striking effect by leading architects to create the latest in modern building designs, through to classic roofing styles for all projects.

### Zincalume®

ZINCALUME® steel is a premium metallic coated steel product that is composed of 55% aluminium, 43.5% zinc and 1.5% silicon. The zinc/aluminium alloy coating on ZINCALUME® steel imparts corrosion resistance of up to four times the life of galvanised steel.

ZINCALUME® steel is backed by a material warranty of up to 25 years\*

Typical applications featuring ZINCALUME® steel include roofing, wall cladding and gutters.

#### Product Attributes

- Durable and strong.
- Superior corrosion resistance and has an excellent combination of physical and cut edge protection.
- Lightweight for easy handling.
- Thermally efficient roofing.
- Excellent flexibility in design, can be curved, for truly individual designs.
- Weather tight and secure when installed to manufacturer's specifications.
- Clear resin coating resists scuffing and handling marks.

\*Warranty terms and conditions apply

### clean Colorbond®

Clean COLORBOND® pre-painted steel combines the superior strength of steel, the corrosion resistance and protection of a zinc/aluminium alloy (ZINCALUME® steel) coating that maintain its long lasting beauty with excellent colour retention.

It has been developed as a "Defence System Against Tropical Staining." Its unique oven-cured paint system prevents surface staining common to tropical environments caused mainly by temperature, moisture and air-borne contaminants.

Clean COLORBOND® steel is backed by a material warranty of up to 25 years\*

#### Product Attributes

- Available in a range of attractive colours.
- The zinc/aluminium alloy coating on ZINCALUME® steel, plus the oven-baked, prepainted finish on Clean COLORBOND® steel provide superior corrosion resistance for long life.
- Thermally efficient. Roofs made from Clean COLORBOND® steel absorb less heat, thus cools very quickly.
- Light weight compared to concrete and clay tiles (on a per area basis) - reduced load on supporting structures.
- Excellent flexibility in design, can be curved, for truly individual designs.
- Flexibility of design allows for both traditional straight roof sheeting as well as innovative curved roofing designs.
- Resists cracking, chipping and peeling.

LEAD, COPPER and STAINLESS STEEL are not compatible with Clean COLORBOND® steel and ZINCALUME® steel. Direct contact should therefore, be avoided. Where inside condensation conditions are likely, coated steel girts should be used so that any ZINCALUME® steel to bare steel contact is avoided.

Stainless steel fasteners are not recommended for ZINCALUME® and Clean COLORBOND® steel.



## GEOMETRIC ALUMINIUM PROPERTIES

Thickness (mm)	Effective Weight (kg/m <sup>2</sup> )	Effective Cover (m <sup>2</sup> /MT)	Minimum Recommended Pitch in Degree	Recommended Purlin Spacing (m)*	Wall Girt Spacing (m)*
0.50	1.912	517.6	3° (1 in 20)	1.2	1.5
0.55	2.103	470.4		1.3	1.8
0.70	2.677	369.5		1.5	2.0
0.90	3.442	287.4		1.9	2.5

## THICKNESS

Thickness (mm)	Section Properties per metre width		
	Area (mm <sup>2</sup> )	Modulus (mm <sup>4</sup> )	Moment of Inertia (mm <sup>4</sup> )
0.50	108mm <sup>2</sup>	2707mm <sup>4</sup>	65769mm <sup>4</sup>
0.55	118.8mm <sup>2</sup>	2978mm <sup>4</sup>	72345mm <sup>4</sup>
0.70	151.2mm <sup>2</sup>	3790mm <sup>4</sup>	92076mm <sup>4</sup>
0.90	194.4mm <sup>2</sup>	4873mm <sup>4</sup>	118383mm <sup>4</sup>

## THICKNESS

Maximum Allowable Span (Py=100Mpa, E=69Gpa)		
	Single Span	Continuous Span
0.50	1.4m	1.55m
0.55	1.5m	1.65m
0.70	1.7m	1.8m
0.90	2.1m	2.2m

Max Eaves Overhang Unsupported	
Thickness	mm
0.50	150
0.55	150
0.70	200
0.90	300

End Laps	
Roof Pitch	End Lap Length (mm)
5° - 10°	300
10° - 15°	250
Above 15°	200



## METHOD STATEMENT AND GENERAL NOTE

TH RIB 30 profile is pierce-fixed to timber or steel supports. This means that fastener screws pass through the sheeting. You can place fasteners for TH RIB 30 through the crests or in the pans. To maximum watertightness, always place roof fasteners through the crests. For walling, you may use either crest- or valley-fixing.

Always drive the fasteners perpendicular to the sheeting, and in the centre of the corrugation or rib. Don't place fasteners less than 25mm from the ends of sheets.

TH RIB 30 requires 3 fasteners per sheet per support as shown below. Fasteners should comply to AS3566. class 3 or class 4.

## FASTENER TABLE

Fasteners without insulation:		
	Fixing to Steel	Fixing to Timber
Crest Fixed	Self Drilling Screws with Hex. Washer-Head & EPDM Seal, 12 x 55mm	Self Drilling Screws with Hex. Washer-Head & EPDM Seal, 10 x 68mm
Valley Fixed	Self Drilling Screws with Hex. Washer-Head & EPDM Seal, 12 x 20mm	Self Drilling Screws with Hex. Washer-Head & EPDM Seal, 12 x 30mm
Side Lap & Accessories	Self Drilling Screws with Hex. Washer-Head & EPDM Seal, 12 x 20mm	Self Drilling Screws with Hex. Washer-Head & EPDM Seal, 12 x 20mm

## FIXING

Crest Fixing of TH RIB 30  
(Recomanmeded for Roofing)



### Crest Fixing of STEEL

No. 12 x 55mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer.



### Crest Fixing of TIMBER

No. 10 x 68mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer.

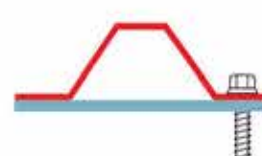


Valley Fixing of TH RIB 30  
(Recomanmeded for Wall Cladding)



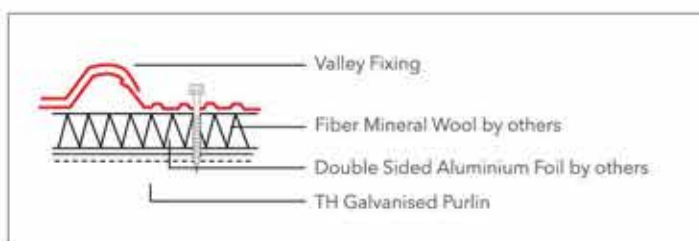
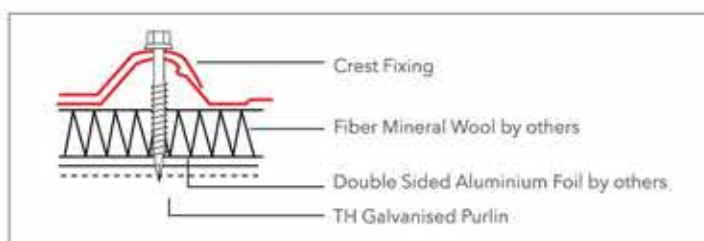
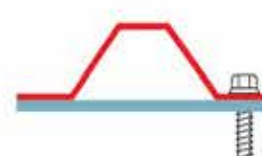
### Valley Fixing of STEEL

No. 10 x 20mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer.



### Valley Fixing of TIMBER

No. 10 x 30mm self drilling and tapping Hexagon Head Screw with pre-assembled neoprene bonded steel washer.



\* Note Aluminium screw accessaies

- 25mm O.D neoprene bonded washer
- Aluminium neoprene bonded sadder cap



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