



# VARYDEK™

Smart and Innovative  
Steel Cladding



VARYDEK™ is being used as a versatile roofing and wall cladding profile for industrial, infrastructure, commercial and residential projects.

## Profile

VARYDEK™ is available with a 740 mm and 1000 mm wide coverage option with nominal 28.5 mm deep ribs. The end ribs are designed for anti-capillary action, to avoid seepage of water through the lateral overlap.

## Available in Multiple Widths

The profile is available in multiple widths and is manufactured from high strength steel with intermittent ribs for improved spanning capability. Standard width offered are 740 mm and 1000 mm.

## COLORBOND® steel with THERMATECH™ Technology

COLORBOND® steel with THERMATECH™ technology reflects more of the sun's heat, allowing both roofs and buildings stay cooler in summer. In moderate to hot climates, compared to roofing materials of similar colour with low solar reflectance, COLORBOND® steel with THERMATECH™ can reduce annual cooling and energy consumption by up to 15%\*and also reduces peak roof temperature by up to 6°C\*\*.

## Material Specifications:

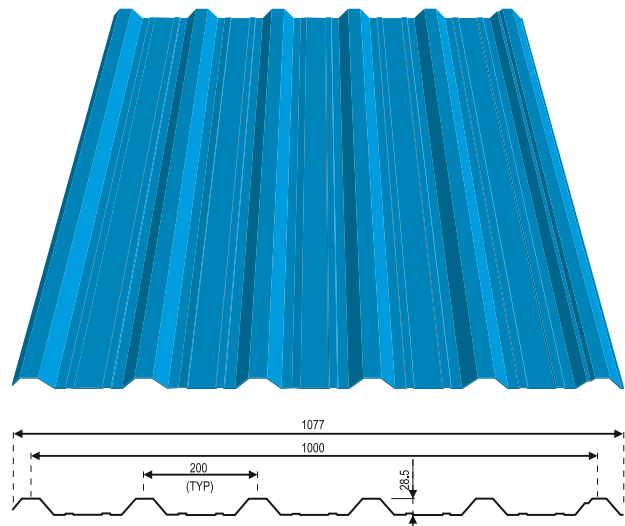
ZINCALUME® steel resin coated, minimum metallic coating mass is AZ150 (150g/m<sup>2</sup>), minimum yield strengths of G550 (550MPa) complies with AS1397 or IS15961.

COLORBOND® XRW is pre-painted steel for exterior roofing and walling. Its minimum metallic coating mass is AZ150 (150g/m<sup>2</sup>), minimum yield strengths is G550 (550 MPa) with Super Durable Polyester exterior paint system, total 25um DFT on topside and 10um DFT on reverse side complying with AS/NZS 2728- type 4 or IS15965- class 3.

COLORBOND® Ultra is pre-painted steel for severe coastal or industrial environments (closer to source), minimum metallic coating mass is AZ200 (200g/m<sup>2</sup>), minimum yield strengths is G550 (550MPa), Super Durable Polyester exterior paint system, total 25um DFT on topside and 15um DFT on reverse side complying with AS/NZS 2728- type 4 or IS15965- class 3.

(Please contact Tata BlueScope Steel office for COLORBOND® spectrum series (metallic finish) and COLORBOND® XPD (PVDF) specification)

## VARYDEK™ 1000



## Maximum Support Spacing (in mm)

The maximum recommended support spacings are based on the pressure considered (in accordance with IS 875.3) on buildings up to 10m high, Zone 3 (Basic wind speed  $V_b = 47$  m/s), Class A, Terrain category 3,  $K1 = 1.0$ ,  $K2 = 0.91$ ,  $K3 = 1.0$ , with the following assumptions made.

### Roofs

$C_{pe} = -1.20$  (internal cladding spans)

$C_{pe} = -2.0$  (single and end cladding spans)

$C_{pi} = +0.2$

### Walls:

$C_{pe} = -0.80$  (internal cladding spans)

$C_{pe} = -1.20$  (single and end cladding spans)

$C_{pi} = +0.2$

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

### Maximum Allowable Support Spacing (in mm)

Type of Span	Roof Application		Wall Application	
	0.42	0.45	0.42	0.45
Single Span	850	950	1300	1700
End Span	1150	1200	1800	2450
Internal Span	1500	1750	2500	2850
Unstiffed Overhang	100	150	100	150

Table 1 - For VARYDEK™ 740

BMT/Base Metal Thickness (in mm)	0.42		0.45		0.50	
FINISH	ZINCALUME®	COLORBOND®	ZINCALUME®	COLORBOND®	ZINCALUME®	COLORBOND®
Weight Per Area(Kg/Sq.m.)	4.39	4.46	4.69	4.76	5.19	5.26
Weight Per Unit Length(Kg/m)	3.25	3.30	3.47	3.53	3.84	3.89

Table 2 - For VARYDEK™ 1000

BMT/Base Metal Thickness (in mm)	0.42		0.45		0.50	
FINISH	ZINCALUME®	COLORBOND®	ZINCALUME®	COLORBOND®	ZINCALUME®	COLORBOND®
Weight Per Area(Kg/Sq.m.)	4.21	4.29	4.50	4.57	4.98	5.05
Weight Per Unit Length(Kg/m)	4.21	4.29	4.50	4.57	4.98	5.05

### VARYDEK™ 1000: Limit state wind pressure capacities(KPa)

Span Type	Limit State	Span (mm)			
		900	1200	1500	1800
VARYDEK™ 1000 - 0.42mm BMT (0.47mm TCT)					
End	Serviceability	7.18	2.98	1.54	-
	Strength*	9.84	5.54	3.56	-
Internal	Serviceability	12.86	5.68	2.88	1.70
	Strength*	9.52	5.37	3.50	2.32
VARYDEK™ 1000 - 0.45mm BMT (0.50mm TCT)					
End	Serviceability	7.68	3.19	1.62	1.02
	Strength*	10.67	6.02	3.82	2.66
Internal	Serviceability	14.51	5.89	3.08	1.84
	Strength*	10.80	6.18	4.01	2.70
VARYDEK™ 1000 - 0.50 mm BMT (0.55mm TCT)					
End	Serviceability	9.48	3.58	1.80	1.12
	Strength*	12.32	6.86	6.86	3.08
Internal	Serviceability	15.88	6.72	3.28	1.98
	Strength*	12.74	7.31	4.71	3.24

## Benefits

- Stronger profile having two strengthening ribs at the pan
- Long roof runs at shallow roof slope (min 3 degree)
- Specially designed ribs, with unique anti-capillary side lap, makes it leak proof
- Curved roof : it is possible only in crimping option
- Very good rainfall capacity
- Easy to install on roof and wall cladding application

## Product Descriptions

- All descriptions, specifications, illustrations, drawings, data, dimensions and weights contained in this catalogue, all technical literature and websites containing information from Tata BlueScope Steel are approximations only. They are intended by Tata BlueScope Steel to be a general description for information and identification purposes and do not create a sale by description. Tata BlueScope Steel reserves the right at any time to:  
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## Standard Colour Range

Explore More



The above colours are only for illustrative purpose and actual colours may vary.

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