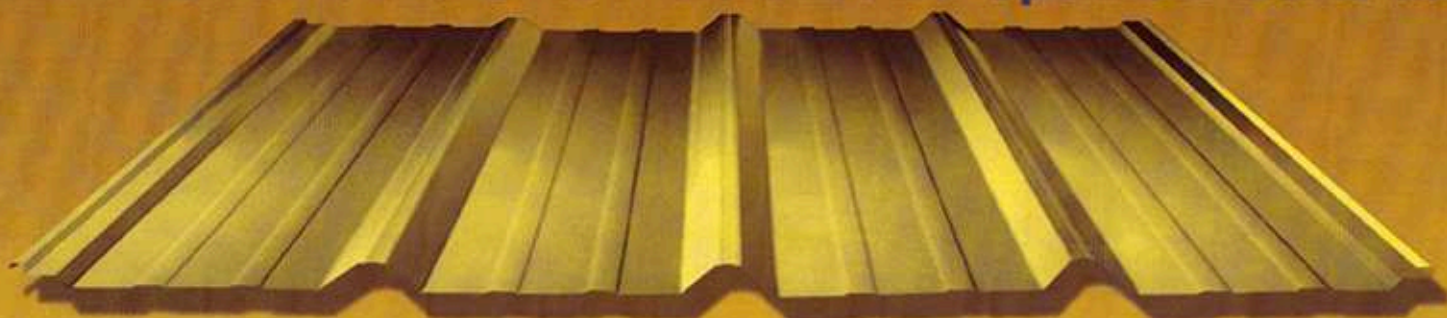


This is how an ordinary rib-type roof looks like.



And this is how the new Colorbond Spanlok looks like.



You may not see the difference
between an ordinary rib-type roof and
the tallest ribbed profile in the market today.

But your architects do!

Colorbond[®]

SPANLOK

FEATURES	Colorbond SPANLOK vs. ORDINARY	
Tallest rib-height. (for superior structural strength)	 35mm	 23mm
Seam lock system. (for leak-proof roofing)		none
Minimal side lapping. (for economy roofing coverage)		
Near 0° slope installation. (best for commercial and industrial project)	Near 0° 	30° 

Ask your architects about it!

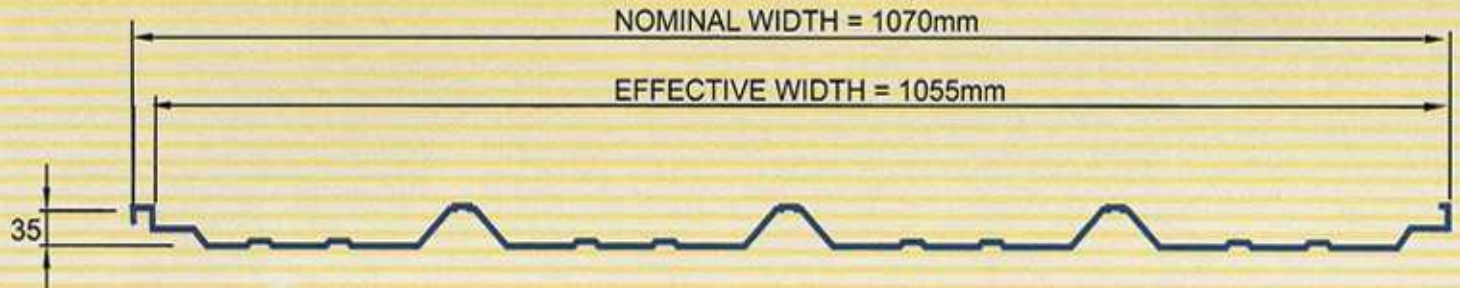


Color may vary from actual product

Colorbond® SPANLOK

World-Class Pre-Painted Galvalume55®

CROSS-SECTION



GENERAL PRODUCT INFORMATION

BASE METAL TYPE: Cold Rolled Steel:
275 MPa (40,000 psi)

SUBSTRATE: GALVALUMES 55™, Zinc-Aluminum alloy-coated steel complying with ASTM A792. Also available in GALVABOND™, Lock Forming Quality (PNS 67: 1986)

PAINT COATING: STANDARD
Double oven-baked epoxy primer and high grade polyester finish.

COATING

Top: Total of 25 microns
Finish Coat: 20 microns
Primer Coat: 5 microns
Bottom: Total of 10 microns
Backing Coat: 5 microns
Primer Coat: 5 microns

OPTIONAL
Premium Fluorocarbon (PVdF) paint finish on top of corrosion-resistant epoxy primer

SALT SPRAY TEST RATING: Class 1000 hours (passed 1000 hours of continuous exposure as per PNS 201: 1990). The only pre-painted ribbed profile product in the market to have passed class 1000 rating

AVAILABLE THICKNESSES: 0.40 mm to 0.60mm

LENGTH : Longspan

ON-SITE ROLLFORMING
CAN BE ARRANGED
AT MINIMAL CHARGES

WIDTH:	Feed Width	Nominal Width	Effective Coverage
	1220mm	1070mm	1055mm

RAINFALL CAPACITY: Roofs in single lengths of 40,000mm without laps, 5° slope Spanlok can draw off a rainfall intensity of 640 mm/hr

APPLICATIONS: Roofing

STANDARD COLORS: Pacific Blue, Samar Beige, Spanish Red, Tile Red, Laguna White and Bagulo Green. Special colors are available upon request.

RECOMMENDED FASTENERS:
Steel-Teks # 12-24 x 65/75mm with Neoprene washer
Wood-Teks # 12-11 x 75mm with Neoprene washer

(THICKER ZINC AND PAINT COATINGS AS WELL AS LONGER SPANS CAN BE ARRANGED)

SPANLOK SECTION PROPERTIES

Thickness	Area		Ix		S _{TOP}		S _{BOT}		Y _{TOP}		Y _{BOT}	
	mm ²	in ²	mm ⁴	in ⁴	mm ³	in ³	mm ³	in ³	mm	in.	mm	in.
0.40	387.74	0.183	59049	0.043	2321	0.043	5969	0.111	25.28	1.00	9.73	0.38
0.50	526.64	0.249	80200	0.059	3160	0.059	7962	0.148	25.16	0.99	9.85	0.39
0.60	630.81	0.298	96064	0.070	3791	0.071	9411	0.175	25.07	0.99	9.94	0.39

0.40 mm

SPAN BETWEEN SUPPORTS	mm	600	750	900	1050	1200
LOAD	psf	133	85	59	43	33
DEFLECTION	in.	0.04	0.05	0.08	0.11	0.14
L / 240	psf	371	190	110	69	46
L / 360	psf	248	127	73	46	31

0.50 mm

SPAN BETWEEN SUPPORTS	mm	600	750	900	1050	1200
LOAD	psf	181	116	80	59	45
DEFLECTION	in.	0.04	0.06	0.08	0.11	0.14
L / 240	psf	504	258	149	94	63
L / 360	psf	337	172	100	63	42

0.60 mm

SPAN BETWEEN SUPPORTS	mm	600	750	900	1050	1200	1350
LOAD	psf	217	139	96	71	54	43
DEFLECTION	in.	0.04	0.06	0.08	0.11	0.14	0.18
L / 240	psf	604	309	179	112	75	53
L / 360	psf	403	206	119	75	50	35

DESIGN CRITERIA

1. Steel grade is 40,000 psi
2. Section properties and Load Tables were computed in strict compliance with the specifications of AISI.
3. Bending moment formulas used for flexural stress limitations are:

Simple Span or Double-Span

$$M = \frac{WL^2}{8}$$

Three-Span

$$M = \frac{WL^2}{10}$$

4. Deflection formulas for deflection limitations are:

One-Span $\frac{5WL^4}{384 EI}$

Two-Span $0.0054 \frac{WL^4}{EI}$

Three-Span or more $0.0069 \frac{WL^4}{EI}$

5. Minimum Yield Point 40,000 psi
Allowable Design Stress 36,000 psi / 24,000 psi

