



UNICOR®
STEEL ROOFING & CLADDING



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AUTHORISED DEALER



PREFERS & RECOMMENDS
Colorbond®

Zincalume®

THE CLASSIC CORRUGATED



SIRIM
Steel Roofing Product
Certification MS2500:2012
CIDB PPS No: PC003380

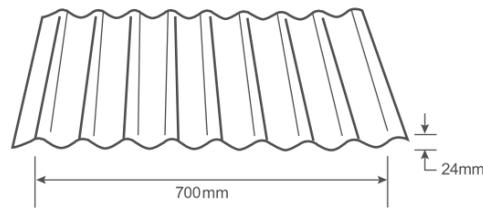
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- ◆ Improved water tight design with anti-capillary groove & internal valley.
- ◆ Material performance warranty from NS BlueScope Malaysia.
- ◆ Designed to maximize cover width without sacrificing performance.
- ◆ Ideal for roofing of contemporary style homes.

SCHEMATICS & LENGTHS

UNICOR® 700 is a classical corrugated roofing profile with 9 round shape ribs. It is made from high tensile steel and available in long lengths up to 12m. UNICOR® 700 profile has excellent impact resistance, optimum durability and anti-capillary at side lap significantly reduces risk of roof leakage.



MATERIALS

UNICOR® 700 roofing and cladding are made from proven materials supplied by NS BlueScope Malaysia. The common materials are G550 high-tensile COLORBOND® steel and ZINCALUME® steel.

ZINCALUME® steel, AZ150 G550

ZINCALUME® steel is a high-tensile G550 steel with a minimum yield strength of 550MPa and a metallic coating with composition of 55% aluminium, 43.5% zinc and 1.5% silicon which conforms to Australian Standard AS1397 and Malaysian Standard MS1196. The practical and aesthetic merits of ZINCALUME® steel include durability, longer lasting, formability and excellent corrosion resistance. Thus ZINCALUME® steel is able to last up to 4 times longer than galvanized steel (GI) and pre-painted galvanized steel (PPGI). The uniqueness of BlueScope's proprietary surface treatment technology lies in the formula and the process of applying clear resin onto ZINCALUME® steel to enhance the surface marking resistance.

COLORBOND® steel, AZ150 G550

COLORBOND® steel uses ZINCALUME® as base substrate with BlueScope's proprietary metallic coating technology, for more superior corrosion resistance performance.

COLORBOND® steel also comes with Clean Technology to prevent dirt from bonding to the surface. The optimum paint formulation and pigment blends assure excellent colour retention and longer lasting performance.

COLORBOND® steel conforms to:

- SIRIM Product Certificate AS/NZS 2728 (Prefinished/ Pre-painted Sheet Metal Products)
- SIRIM Product Certificate MS2383 (Prefinished/ Pre-painted Sheet Metal Products)
- CIDB PPS Certificate
- BS476 Part 6 (Fire Propagation) & BS476 Part 7 (Surface Spread of Flame) i.e. BOMBA Class 'O' certification requirements

Other materials are also available upon request:

- COLORBOND® ULTRA steel in AZ200 G550
- VERMOE™ steel in AZ150 G550
- PRIMAMAJU® steel in AZ100 G550

WARRANTY

UNICOR® 700 has a back to back material performance warranty* from NS BlueScope Malaysia, for COLORBOND® steel, it covers:

- Warranty* against corrosion perforation for up to 25 years
- Warranty* against flake and peel for up to 15 years
- Warranty* against colour fading for up to 12 years
- Warranty* against dirt staining for up to 5 years

* Warranty terms and conditions apply.

TOLERANCES

Length + 10mm / - 5mm Cover width + / - 5mm

QUALITY CONTROL

UGI use only 100% long lasting steel coils supplied by NS BlueScope Malaysia, namely COLORBOND® and ZINCALUME® steel to make UNICOR® 700. Quality control process from raw material to roofing sheet is certified to MS/ISO 9001:2015 Quality Management System, and UNICOR® 700 is certified to SIRIM MS 2500:2012 (self supporting metal roofing).

CAUTION

- Avoid contact with incompatible materials (copper/lead/stainless steel)
- Always turn up the pans at upper end to prevent back flow
- Avoid circular saw disc cutting as the hot particles may damage the roofing surface
- Only use non-acidic sealant
- Clean up all debris/swarf after installation

PHYSICAL PROPERTIES*

BMT	ZINCALUME® STEEL		COLORBOND® STEEL	
	Kg/m	Kg/m ²	Kg/m	Kg/m ²
0.35mm AZ150	2.67	2.92	2.72	2.98
0.42mm AZ150	3.17	3.47	3.22	3.53

BMT: Base steel thickness before metallic and paint coatings.

COLOURS

UNICOR® 700 is readily available in popular COLORBOND® steel colours. Colour matching is possible upon meeting a minimum order quantity.



* Please check your chosen colour against an actual sample of the product, as varying light conditions and limitations of the current printing process may affect colour tones.

Load & Deflection

Thickness (mm)	Thickness of Steel, BMT (mm)							
	0.35		0.40		0.42		0.48	
	Loading (kg/m ²)	Deflection (mm)						
600	625	1.30	825	1.40	900	1.42	1200	1.50
800	300	1.93	400	2.12	425	2.08	550	2.12
1,000	170	2.66	220	2.82	240	2.84	300	2.78
1,200	100	3.23	130	3.44	145	3.55	180	3.45
1,500	50	3.99	70	4.56	75	4.52	95	4.47

Overhang Load & Deflection

Thickness (mm)	Thickness of Steel, BMT (mm)					
	0.35		0.40		0.48	
	Loading (kg/m ²)	Deflection (mm)	Loading (kg/m ²)	Deflection (mm)	Loading (kg/m ²)	Deflection (mm)
100	105	0.91	120	0.91	150	0.64
200	125	1.83	145	1.85	180	1.30

Note: Both Load & deflection and Overhang load deflection table' data are based on calculation in accordance to BS EN 1993-1-5 and BS EN 1993-1-3, on elastic behaviour of UNICOR® 700 sheeting subject to uniformly vertical distributed loads(UDL) with simply supports.

SPANNING (recommended max)

BMT	Roofing			Walling		
	Single	End	Internal	Single	End	Internal
0.35mm	900	1,100	1,250	1,650	1,900	2,100
0.42mm	1,000	1,250	1,600	2,100	2,400	2,700

* AZ150

SPRUNG CURVE

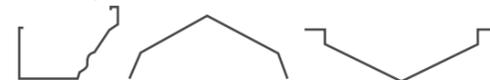
UNICOR® 700 can be natural sprung curved to various shapes and sizes with minimum radius of 12m. For more information, please contact UGI Technical Department

ROOF DRAINAGE & MAX LENGTH

Our Technical Support is able to provide computer simulated UNICOR®II 700 roof drainage behaviour under certain input criteria (rainfall intensity and roof slope).

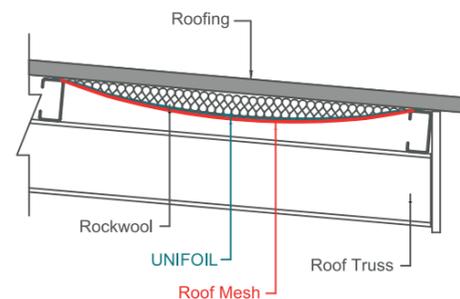
ACCESSORIES

Typical UNICOR® 700 roof flashings & gutters are made from girts width of 457mm & 305mm and standard leghts of 8ft(2.438m). Wider girts and customs made lengths up to 9m are available subject to enquiry.



THERMAL & NOISE INSULATION

We always recommend UNICOR® 700 to be installed with proper thermal and noise insulations; a layer of 50mm 40kg/m³ ROCKWOOL 'Cool n Comfort', UNIFOIL® woven radiant foil and supported by UGI GI roof mesh.



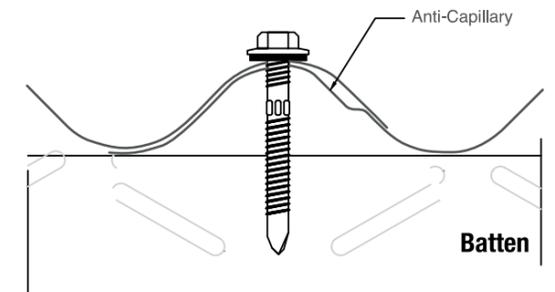
FASTENING DETAILS

To match the performance of UNICOR® 700, the fasteners must conform to AS3566 Class 3.

CLADDING VALLEY FIXING		CREST FIXING	
Drilling Capacity < 6.0mm			
Without Insulation	With Insulation	Without Insulation	With Insulation
10-16 x 16	12-14 x 20	12-14 x 50	12-14 x 65
Drilling Capacity < 12.5mm			
12-24 x 32		Without Insulation	With Insulation
		12-24 x 50	12-24 x 65
Hardwood			
		Without Insulation	With Insulation
		12-11 x 50	12-11 x 65

SIDE LAPPING

The correct side lapping will create an anti-capillary groove between sheets; shorter side on top.



UNICOR® 700