



# UNILOK®

STEEL ROOFING & CLADDING

**THE INNOVATIVE CONCEALED  
STEEL ROOFING & CLADDING**



**SIRIM**

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

**First in Borneo to be certified to SIRIM MS 2500:2012**

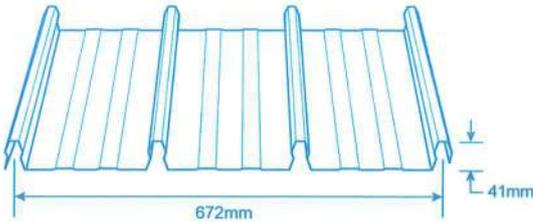


- ◆ Improved water tight design with anti-capillary groove & internal valley.
- ◆ Concealed Fixing Roofing.
- ◆ Material performance warranty from NS BlueScope Malaysia.
- ◆ Ideal for low pitch roofing of contemporary style homes.

## SCHEMATICS & LENGTHS

UNILOK®672 is a proven concealed fixed profile offers wide-cover, longer lengths and excellent uplift performance.

UNILOK®672 is produced by cold-forming of pre-coated coil. Factory produced lengths of UNILOK® up to 12m delivery ex-factory. Longer lengths are also available upon request subject to transportation and lifting equipment at site.



## TOLERANCES

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

## MATERIALS

UNILOK®672 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 Malaysia 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® steel as the 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

UNILOK®672 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.

## QUALITY CONTROL

UGI use only 100% long lasting steel coils supplied by NS BlueScope Malaysia, namely COLORBOND® and ZINCALUME® steel to make UNILOK®672. Quality control process from raw material to roofing sheet is certified to MS/ISO 9001:2015 Quality Management System, and UNILOK®672 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 <sup>2</sup>	Kg/m	Kg/m <sup>2</sup>
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

UNILOK®672 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)							
	0.40		0.42		0.48		0.55	
	Loading (kg/m <sup>2</sup> )	Deflection (mm)						
1,000	475	4.98	550	4.98	700	4.98	900	5.00
1,200	225	5.77	275	5.73	375	5.73	550	5.93
1,500	100	7.19	130	7.20	175	6.88	250	7.49
2,000	35	9.51	50	9.80	75	9.89	85	8.69

## Overhang Load & Deflection

Thickness (mm)	Thickness of Steel, BMT (mm)							
	0.40		0.42		0.48		0.55	
	Loading (kg/m <sup>2</sup> )	Deflection (mm)						
1000	175	0.99	120	0.96	210	0.95	250	0.96
2000	200	16.89	220	1.96	260	1.97	300	1.93

Note: Both Load & deflection and Overhang load deflection table's data are based on calculation in accordance to BS EN 1993-1-5 and BS EN 1993-1-3, on elastic behaviour of UNILOK® 672 sheeting subject to uniformly vertical distributed loads (UDL) with simply supports.

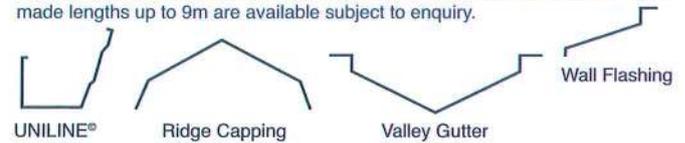
## SPANNING (recommended max)

BMT	Roofing			Walling		
	Single	End	Internal	Single	End	Internal
0.42mm	1,300	1,500	1,900	1,800	2,000	2,300
0.48mm	1,500	1,800	2,200	2,300	2,700	2,900

\* AZ150

## ACCESSORIES

Typical UNILOK®672 roof flashings & gutters are made from girts width of 457mm & 305mm and standard lengths of 8ft(2.438m). Wider girts and customs made lengths up to 9m are available subject to enquiry.



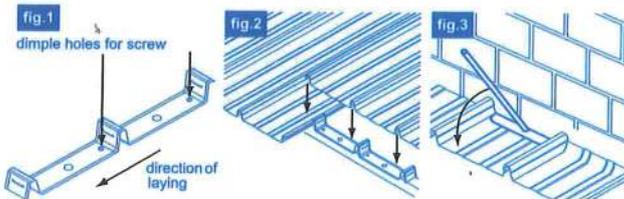
## SPRUNG CURVE

UNILOK®672 roofing can be natural sprung curve to a minimum radius of 35m. For more information, please refer to UGI Technical Department.

## FASTENING DETAILS

To match the performance of UNILOK®672, the fasteners must conform to AS3566 Class 3.

Clip Fix To	With Insulation
Steel	A3 10-16 x 22waf
Timber Batten	A3T 10-12 x 25waf

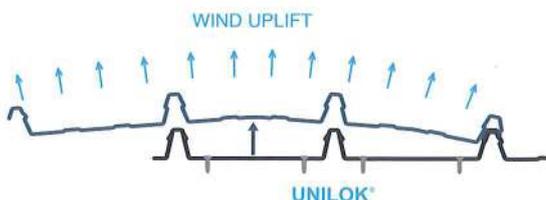


## ROOF DRAINAGE & MAX LENGTH

Our technical Support is able to provide computer simulated UNILOK®672 roof drainage behavior under certain input criteria (rainfall intensity and roof slope)

## TESTED ROOFING SYSTEM

UGI UNILOK®672 is tested to withstand wind speed of 40m/s

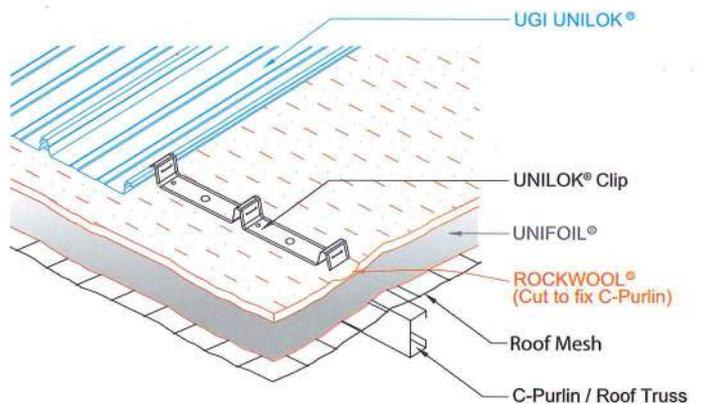


## THERMAL & NOISE INSULATION

We always recommend UNILOK®672 to be installed with proper thermal and noise insulation; a layer of 50mm 40kg/m<sup>3</sup> ROCKWOOL 'Cool n Comfort', UNIFOIL® Woven radiant and supported by UGI GI roof mesh.

## INSTALLATION

UNILOK®672 is installed by concealed-fixed method. It shall be done by trained roof fixers, because there is little room for adjustment when roof align is out during installation. Should you have any doubt please contact our Technical Service for advice before laying UNILOK®672 sheets.



# UNILOK® 672



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AUTHORISED DEALER



**Colorbond®**

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