

UNISPAN[®]
STEEL ROOFING & CLADDING



UNITED G.I. PRODUCTS SDN. BHD.
Lot 835, Block 7, Jalan Demak Laut 3,
Demak Laut Industrial Park, 93050
PO Box 472, 93710 Kuching,
Sarawak, Malaysia
T +6 082 439 257
F +6 082 439 259
E info@ugi.com.my



ISO 9001 - 0047802

ugi.com.my

AUTHORISED DEALER



PREFERS & RECOMMENDS

Colorbond[®]

Zincalume[®]

THE VERSATILE STRAIGHT PROFILE



SIRIM

Certified to MS 2500 : 2012
Certification No.: PC003380

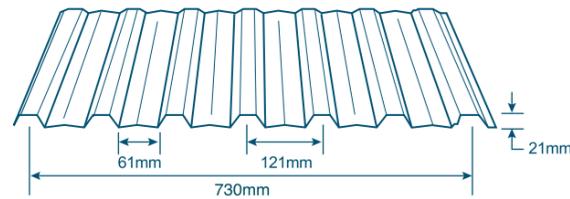
First in Borneo to be certified to SIRIM MS 2500:2012

© 2017 United GI Products Sdn Bhd. All rights reserved. UGI logo, UNIDEK[®], UNISPAN[®], UNITILE[®], UNILOK[®], UNICOR[®] and UNILINE[®] are trade marks of United GI Products Sdn Bhd., registered in Malaysia. COLORBOND[®] and ZINCALUME[®] are registered trademarks of BlueScope Steel Limited. The COLORBOND[®] steel colours shown in this catalogue have been reproduced to present actual product colours as accurately as possible. However, we recommend you to 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. No part of this brochure may be reproduced or transmitted in any form by any means, electronic, mechanical, photocopying, recording or otherwise, with written permission of United GI Products Sdn Bhd. All intonation and product specifications are current at the time of printing and subject to change without notice. DOC ID: UGI UNISPAN[®] Catalogue Rev. 2 / JUNE 2020.



SCHEMATICS & LENGTHS

UNISPAN®730 has a cover width of 730mm and rib height of 21mm. It is made from cold-forming of G550 high-tension steel, available in cut-to-lengths up to 12m (longer lengths also available subject to enquiry). UNISPAN®730 ribs are squarer and uniformly arranged, allow design flexibility and multi-purpose applications including ceiling and wall cladding.



MATERIALS

UNISPAN®730 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 Standardize Colorbond first then followed by Zinalume.

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® 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

UNISPAN®730 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*

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 UNISPAN®730. Quality control process from raw material to roofing sheet is certified to MS/ISO 9001:2015 Quality Management System, and UNISPAN®730 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 chop saw disc cutting's (hot particles) damaging 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

UNISPAN®730 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	1.92	825	2.07	900	2.09	1200	2.27
800	300	2.78	400	3.05	425	2.99	550	3.14
1,000	170	3.77	220	3.99	240	4.03	300	4.07
1,200	100	4.50	130	4.80	145	4.98	180	5.00
1,500	50	5.45	70	6.29	75	6.25	95	6.42

Overhang Load & Deflection

Thickness (mm)	Thickness of Steel, BMT (mm)							
	0.35		0.40		0.42		0.48	
	Loading (kg/m ²)	Deflection (mm)						
100	105	0.82	120	0.79	130	0.81	150	0.79
200	125	1.65	145	1.63	155	1.64	180	1.61

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 UNISPAN® 730 sheeting subject to uniformly vertical distributed loads(UDL) with simply supports.

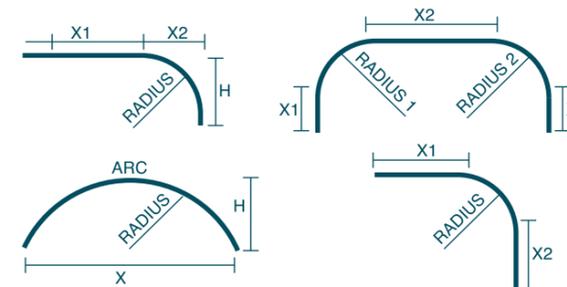
SPANNING (recommended max)

BMT	Roofing			Walling		
	Single	End	Internal	Single	End	Internal
0.35mm	800	1,000	1,250	1,650	1,900	2,100
0.42mm	1,000	1,250	1,600	2,100	2,400	2,700

* AZ150

CRIMP CURVED

UNISPAN®730 roofing can be machine crimp curved to various shapes and sizes as shown in the diagram below. For more information on minimum radius and maximum length of UNISPAN®730 crimp curve, please refer to the Curve Specifications table.



CURVE SPECIFICATIONS

Type	Parameters	
Crimp Curved	Min. Radius	550mm
	Max. Radius	Sprung Curved
	Max. Arc Length	8m
Sprung Curved	Min. Radius	22m

ROOF DRAINAGE & MAX LENGTH

Our Technical Support able to provide computer simulated UNISPAN®730 roof drainage behaviour under certain input criteria (rainfall intensity and roof slope).

ACCESSORIES

Typical UNISPAN®730 roof flashings & gutters are made from girts width of 457mm & 305mm and standard lengths of 8ft(2.438m). Wider girts and custom made lengths up to 9m are available subject to enquiry.



THERMAL & NOISE INSULATION

We always recommend UNISPAN®730 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.

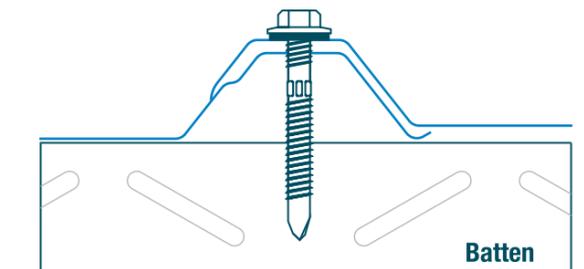
FASTENING DETAILS

To match the performance of UNISPAN®730, the fasteners must conform to AS3566 Class 3.

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

SIDE LAPPING

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



UNISPAN® 730