



UNIDEK®
STEEL ROOFING & CLADDING

THE MODERN RIBBED PROFILE



SIRIM

Certified to MS 2500 : 2012
Certification No.: PC003380

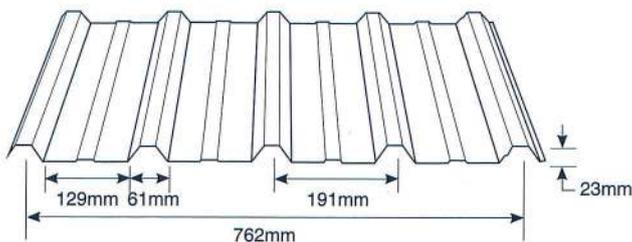
First in Borneo to be certified to SIRIM MS2500:2012



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

SCHEMATICS & LENGTHS

UNIDEK® is produced by cold-forming of pre-coated steel. It has an effective cover width of 762mm with five strong trapezoidal ribs of 23mm height. Factory produced lengths of UNIDEK® sheeting are limited by transportation, site access and lifting equipments. Mobile site forming of UNIDEK® is available upon request.



QUALITY CONTROL

UGI uses 100% proven materials supplied by NS Bluescope Malaysia. MS/ISO 9001:2015 Quality Management System process ensures that high quality steel coils are properly handled and cold formed into UNIDEK® sheetings. UNIDEK® is the first steel roofing profile in Borneo to be product certified by SIRIM MS2500:2012.

WARNINGS

- UNIDEK® can be used on roof pitches as low as 3° (without end-laps). Consult our Technical Department for roof with end laps or longer length roof.
- Copper and Lead are incompatible materials and should NOT be used in contact with UNIDEK® made from COLORBOND® steel.
- Use only acetic-free sealant on UNIDEK® sheets.
- Manual cutting is recommended. Avoid circular saw cut that result in having hot particles falling onto UNIDEK® sheets.
- While walking on UNIDEK® roof, evenly distribute weight to avoid concentrating weight on either heels or toes. Use smooth soft soled shoes.

MATERIALS

UNIDEK® roofing and cladding are made from proven materials supplied by NS Bluescope Malaysia. The common materials are G550 high-tensile ZINCALUME® steel and COLORBOND® 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 43.5% zinc, 55% aluminium & 1.5% silicon (AZ150) 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). ZINCALUME® steel supplied by NS BlueScope Malaysia has a clear resin coating which gives it a beautiful, satin-smooth finish.

COLORBOND® steel, AZ150 G550

COLORBOND® Steel uses ZINCALUME® Steel as the base metal for superior corrosion resistance. Incorporated with Clean technology in the paint system to reduce tropical dirt staining, the proprietary paint system also provides excellent colour retention and long lasting performance. COLORBOND® Steel conforms to:

- SIRIM Product Certificate AS/NZS 2728 (Prefinished/ Prepainted Sheet Metal Products)
- SIRIM Product Certificate MS2383 (Prefinished/ Prepainted Sheet Metal Products)
- CIDB PPS Certificate
- BS476 Part 6:1989 (Fire Propagation) & BS476 Part 7:1997 (Surface Spread of Flame) i.e. BOMBA Class 'O' certification requirements

Other materials are also available upon request;

- Clean COLORBOND® ULTRA Steel in AZ200 G550
- Clean COLORBOND® XPD Pearlcent Steel in AZ150 G550
- PRIMAMAJU-R® Steel in AZ100 G550

WARRANTY

UNIDEK® has a back to back material performance warranty* from NS BlueScope Malaysia, which 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

PHYSICAL PROPERTIES*

BMT	ZINCALUME® STEEL		COLORBOND® STEEL	
	Kg/m	Kg/m ²	Kg/m	Kg/m ²
0.35mm AZ150	2.73	3.58	2.80	3.68
0.42mm AZ150	3.28	4.30	3.34	4.39

BMT: Base steel thickness before metallic and paint coatings.

COLOURS

UNIDEK® 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	2.70	825	2.78	900	2.75	1200	2.89
800	300	3.67	400	3.88	425	3.71	550	3.76
1,000	170	4.78	220	4.87	240	4.86	300	4.72
1,200	100	5.49	130	5.67	145	5.83	180	5.65
1,500	50	6.36	70	7.23	75	7.08	95	7.07

Note: This table is solely based on calculation in accordance to BS EN 1993-1-5 and BS EN 1993-1-3, on an elastic behaviour of the UNIDEK sheeting, subject to uniformly vertical distributed loads (UDL) with simply supports.

Overhang Load & Deflection

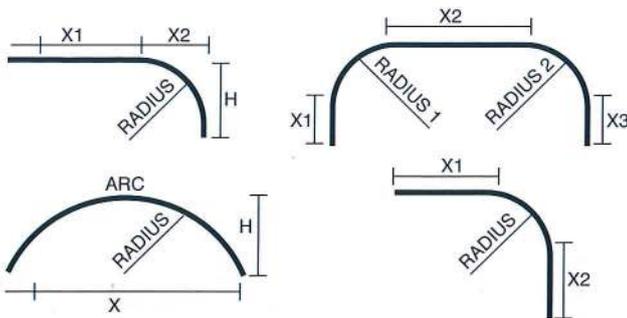
Thickness (mm)	Thickness of Steel, BMT (mm)							
	0.35		0.40		0.42		0.48	
	Loading (kg/m ²)	Deflection (mm)						
100	105	0.97	120	0.95	130	0.97	150	0.96
200	125	1.97	145	1.96	155	1.97	180	1.96

SPANNING (recommended max)

BMT	Roofing			Walling		
	Single	End	Internal	Single	End	Internal
0.35mm	800	900	1,200	1,200	1,300	1,500
0.42mm	940	1,040	1,500	1,600	1,800	2,000

CRIMP CURVED

UNIDEK® 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 UNIDEK® crimp curve, please refer to the Curve Specifications table.



CURVE SPECIFICATIONS

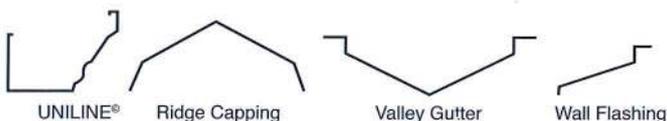
Crimp Curved	CRITERIA	
	Min. Radius	550mm
Max. Arc Length	8,000mm	

SPRUNG CURVED

UNIDEK® roofing can be natural sprung curved to various shapes and sizes with the minimum radius of 22,000mm. For more information, please contact UGI Technical Department.

ACCESSORIES

UNILINE® Rain Gutters, Ridge Capping, Valley Gutter, Wall Flashing are available to match UNIDEK® Roofing.



THERMAL & NOISE INSULATION

UNIDEK® is best installed with proper thermal and noise insulation. A good practice is to lay a layer of wire netting over battens, then a layer UGI UNIFOIL® Double sided metalised Aluminium woven foil (W228 AM), followed by a 50mm 40kg/m³ ROCKWOOL® Cool 'n' Comfort, and finally UNIDEK® roofing sheets.

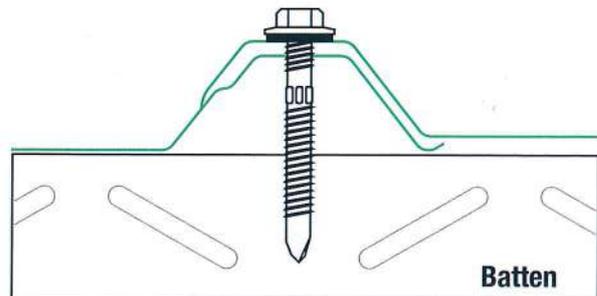
FASTENING DETAILS

To match the performance of UNIDEK®, 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 overlap ensures 100% water leakage proof and enhance unique UNIDEK® appearance.



UNIDEK®



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



ugi.com.my

AUTHORISED DEALER



PREMIUM STEEL FROM
Colorbond®

Zincalume®

© 2017 United GI Products Sdn Bhd. All rights reserved. UGI logo, UNIDEK®, UNISPAN®, UNITILE®, UNILOK®, UNICOR® II and UNILINE® are trade marks of United GI Products Sdn Bhd., registered in Malaysia. COLORBOND®, Clean 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 UNIDEK Catalogue Rev .2 / February 2020.