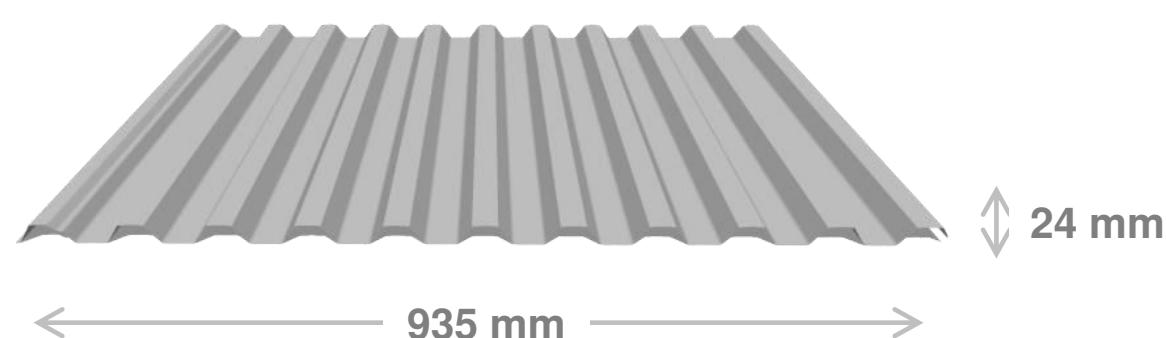


SPANDEK® OPTIMA™

LYSAGHT® SPANDEK® OPTIMA™ is an advancement of the original square-corrugated cladding profile for roofs and walls, ideal where a bolder, more modern appearance is desired.

With wider coverage, strength, impact resistance and high water-carrying capacity make it an even more economical choice for long roof spans with reduced fastener requirements.

PROFILE DETAILS



PROFILE PROPERTIES

Application	Roofing and Walling
Shape Capability	Straight and Curve Sheets
Finishes Available	ZINCALUME® Steel COLORBOND® Steel
Effective Width	935 mm
Rib Depth	24 mm
Pan Width	30 mm
Rib Distance	94 mm
Standard Thickness (BMT)	0.35 – 0.40 mm
Non-Standard Thickness (BMT)	0.50 mm
Roof Length (Manufactured in factory)	Min. 500 mm Max. 17000 mm
Tolerance	Length +10 mm; -0 mm Effective Width ± 5 mm
Minimum Roof Slope	3° (without end-lap) 5° (with end-lap)
Curving Data	Spring Curve R+25m, R-25m Crimp Curve R+0.60m, R-0.60m Min. increment R: 30 mm; Tail: 450 mm

Material Specification

ZINCALUME® steel complying with AS1397-2001 G550, AZ150 (550 MPa minimum yield stress, 150gr/m² minimum coating mass).

COLORBOND® steel complies with AS/NZ2728:1997.

PROFILE WEIGHT (KG)

THICKNESS (BMT)	COLORBOND® XRW	ZINCALUME®
0.35 mm	3.86	3.79
0.40 mm	4.37	4.30

MAXIMUM SUPPORT SPACING

ROOFS

THICKNESS (mm BMT)	Single (mm)	End (mm)	Internal (mm)
0.35	975	1225	1300
0.40	1110	1880	2100

WALLS

THICKNESS (mm BMT)	Single (mm)	End (mm)	Internal (mm)
0.35	2100	2600	3300
0.40	2170	2950	3300

WIND UPLIFT CAPACITY (kPa)

THICKNESS 0.35 mm BMT

Span	Limit State	Span (mm)					
		600	900	1200	1500	1800	2100
Single	Serv.	2.79	2.25	1.72	1.25	0.85	0.54
	Strength	8.39	6.96	5.57	4.31	3.23	2.39
End	Serv.	5.15	4.06	3.06	2.14	1.36	0.8
	Strength	7.14	6.09	5.06	4.11	3.27	2.56
Internal	Serv.	2.03	1.87	1.7	1.53	1.34	1.17
	Strength	8.66	6.68	5.17	3.81	2.70	1.89

THICKNESS 0.40 mm BMT

Span	Limit State	Span (mm)					
		600	900	1200	1500	1800	2100
Single	Serv.	4.29	3.41	2.57	1.81	1.17	0.69
	Strength	9.50	7.76	6.08	4.58	3.32	2.39
End	Serv.	6.16	4.90	3.72	2.65	1.73	1.06
	Strength	8.75	7.51	6.30	5.17	4.16	3.30
Internal	Serv.	3.53	3.07	2.61	2.19	1.79	1.46
	Strength	9.75	8.12	6.66	5.30	4.14	3.19

These capacities are based on tests conducted at BlueScope's NATA registered testing laboratory using a direct pressure testing rig. Testing was conducted in accordance with AS 1562.1—1992 design and installation of Sheet Roof And Wall Cladding—Metal, and AS 4040.2—1992 resistance to Wind Pressure For Non-Cyclonic Regions. The pressure capacities for serviceability are based on a deflection limit of (span/120) + (maximum fastener pitch/30). The pressure capacities for strength have been determined by testing the cladding to failure (ultimate capacity). These pressures are applicable when the cladding is fixed to a minimum of 1.0 mm, G550 steel.


ROOF DRAINAGE (length of sheet in m')

Rainfall Intensity (mm/hour)	Slope (°)			
	3	5	7	10
100	122	147	170	191
200	61	73	85	95
300	41	49	57	64
400	31	37	43	48
500	24	29	34	38

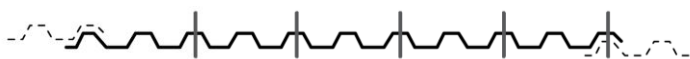
FASTENING METHOD

LYSAGHT® SPANDEK® OPTIMA™ is pierce-fixed to steel or timber supports. This means that fasteners pass through the sheeting. To maximize watertightness always place screws through the crests for roofing applications. For walling, you may use either crest or valley fixing. We recommend valley fixing for premium results. Fasteners must have a coating system to meet AS 3566 Class 3 or AS 3566 Class 4.

Roof

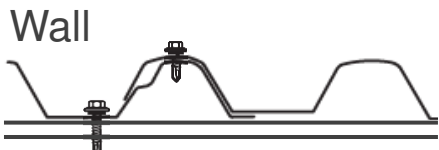


Crest Fixing To Steel
For Roofing And
Walling




Crest Fastener Location
(Normal application in non-
cyclonic areas)

Wall



Valley Fixing To Steel
For Walling Only



Valley Fastener Location
(Normal application in non-
cyclonic areas)

Estimation: 5 pcs/sqm

	Crest fixed	Valley fixed
Fixing to steel up to 5mm BMT	Self drilling screws with hex. washer head, EPDM seal, Higrip & Shank protection 12-14x50	Self drilling screws with hex. washer head, EPDM seal 12-14x30 or Self drilling screws with hex. washer head, EPDM seal 10-16x16
Fixing to timber	Type 17 Self drilling screws with hex. washer head, EPDM seal, Higrip & Shank protection Softwood: 12-11x65 Hardwood: 12-11x50	Type 17 Self drilling screws with hex. washer head, EPDM seal Softwood: 10-12x30 Hardwood: 12-11x20

OVERLAPPING

End-lap with minimum overlap 200 mm

MANUFACTURING

LYSAGHT® SPANDEK® OPTIMA produced in Cibitung factory.

Also available in extra long lengths, produced by our on-site mobile rollformer/roll on-site. This service is available based on enquiry.

OIL CANNING

OIL CANNING can be defined as a perceived waviness in the flat areas of metal roofing and metal cladding panels. Generally the period and amplitude of the wave depend on the continuous width of the flat section of the profile. Oil canning is an inherent part of light gauge cold formed metal products, particularly those with broad flat areas.

Since many uncontrollable factors are involved, no manufacturer can realistically assure the total elimination of oil canning. With careful attention to the production and selection of material, to the panel design, and to installation practice, oil canning can be effectively minimised.

Unless specific tolerances have been incorporated into the contract documents and accepted by the panel provider and panel manufacturer, and if reasonable precautions have been taken, oil canning is not grounds for panel rejection.

COLOR CHOICE


Standard & Non-standard colors can be selected from Colorbond® brochure available in www.colorbond.id/product.

CERTIFICATION


- Green Label Indonesia
- TKDN




TRUSTED PARTNER
FOR BUILDING SYSTEMS



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