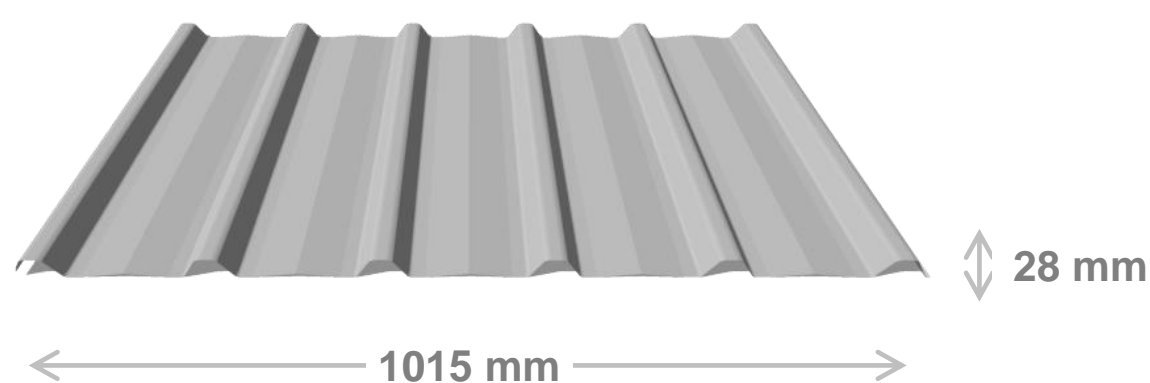


## TRIMDEK® OPTIMA™

LYSAGHT® TRIMDEK® OPTIMA™ is a subtle square-fluted steel cladding made of high strength steel and despite its lightness, provides excellent spanning capacity.

With its wide coverage and long spanning capability, wide support spacing and screw fastening for quick installation; making it an even more economical choice for commercial, and industrial.

### PROFILE DETAILS



### PROFILE PROPERTIES

Application	Roofing and Walling
Shape Capability	Straight and Curve Sheets
Finishes Available	ZINCALUME® Steel COLORBOND® Steel
Effective Width	1015 mm
Rib Depth	28 mm
Pan Width	137 mm
Rib Distance	203 mm
Standard Thickness (BMT)	0.35 – 0.40 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	Crimp Curve R+0.60m, R-0.60m Convex (R+) Min. increment R: 30 mm; Concave (R-) Tail: 450 mm Contact us for Spring Curve application
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	3.56	3.49
0.40 mm	4.03	3.96

### MAXIMUM SUPPORT SPACING

#### ROOFS

THICKNESS (mm BMT)	Single (mm)	End (mm)	Internal (mm)
0.35	1090	1550	2140
0.40	1240	1770	2440

#### WALLS

THICKNESS (mm BMT)	Single (mm)	End (mm)	Internal (mm)
0.35	1740	2020	2560
0.40	1990	2300	2590

### 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	8.40	6.96	5.57	4.31	3.23	2.39
End	Serv.	5.15	4.07	3.06	2.14	1.36	0.79
	Strength	7.14	6.08	5.06	4.11	3.27	2.57
Internal	Serv.	2.04	1.87	1.69	1.52	1.34	1.17
	Strength	8.24	6.67	5.17	3.83	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	4.91	3.72	2.65	1.73	1.05
	Strength	8.75	7.51	6.30	5.17	4.16	3.31
Internal	Serv.	3.53	3.07	2.61	2.18	1.79	1.46
	Strength	9.63	8.11	6.66	5.31	4.14	3.19

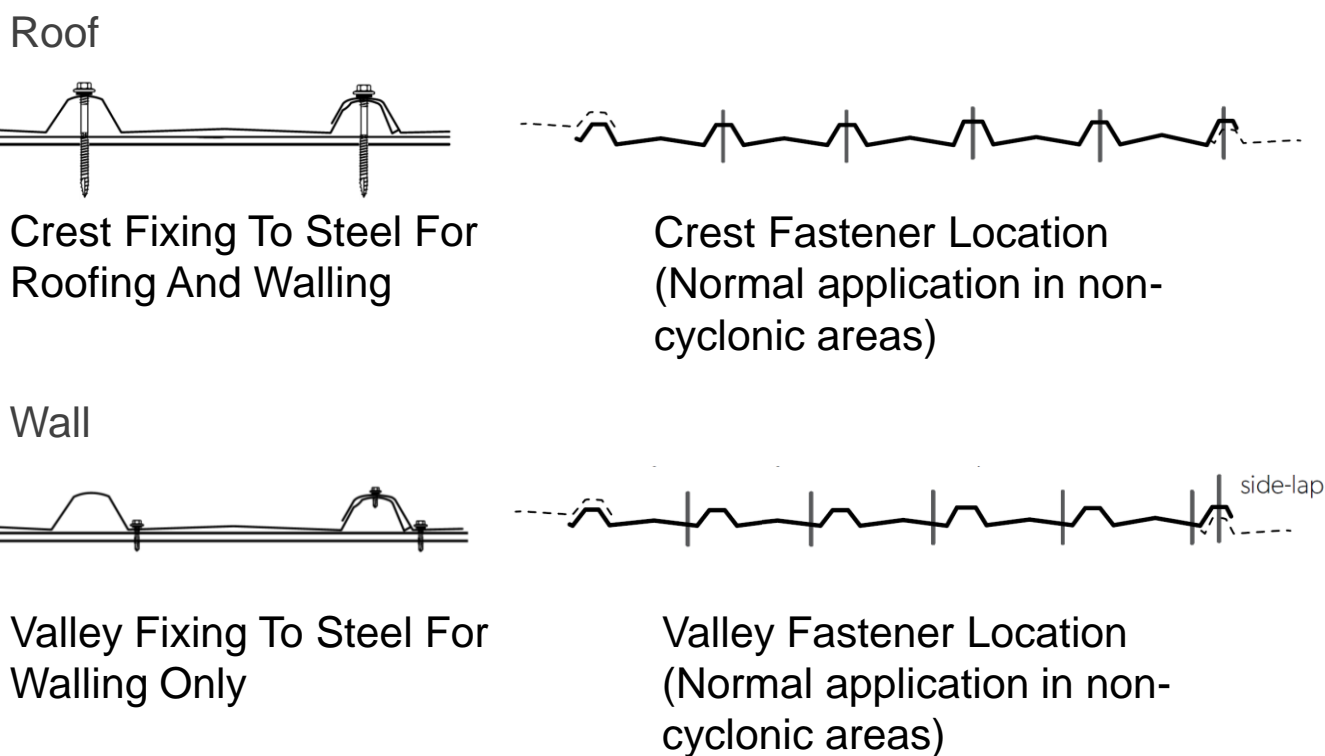
These capacities are based on tests conducted at BlueScope's NATA registered testing laboratory using a direct pressure testing rig. Testing was conducted in accordance with AS 1562.1—1992 design and installation of Sheet Roof And Wall Cladding—Metal, and AS 4040.2—1992 resistance to Wind Pressure For 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	275	342	408	469
200	138	171	204	235
300	92	114	136	156
400	69	86	102	117
500	55	68	82	94

FASTENING METHOD

LYSAGHT® TRIMDEK® 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.



Estimation: 4 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® TRIMDEK® OPTIMA produced in Cibitung and Sidoarjo 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](http://www.colorbond.id/product).


CERTIFICATION


- Green Label Indonesia
- TKDN



TRUSTED PARTNER FOR BUILDING SYSTEMS

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