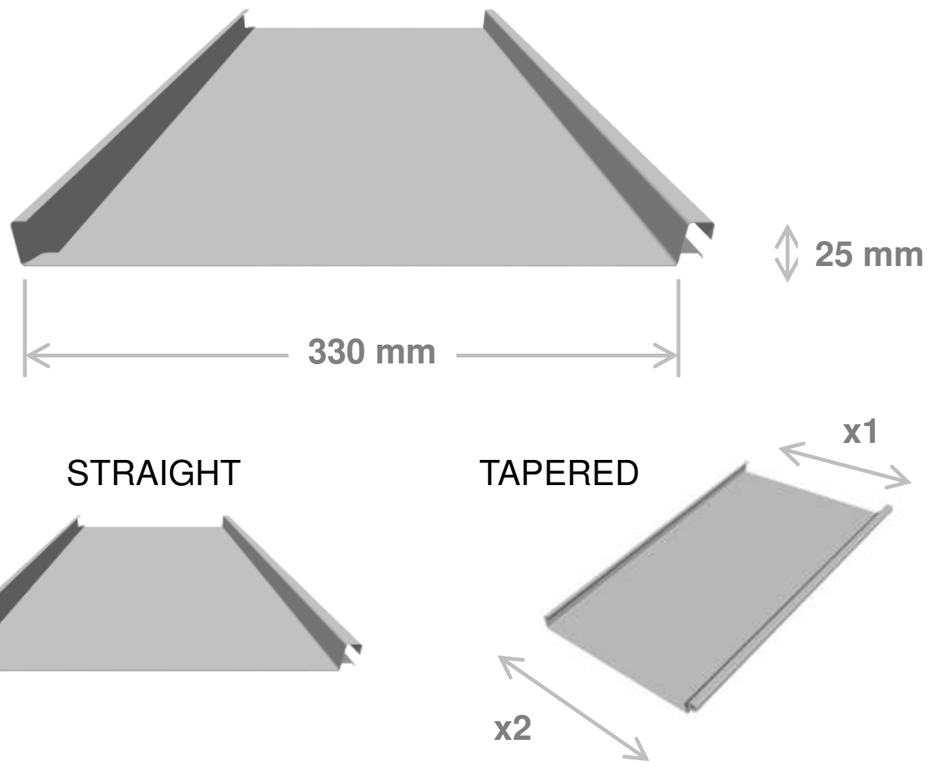
ROOFING WALLING

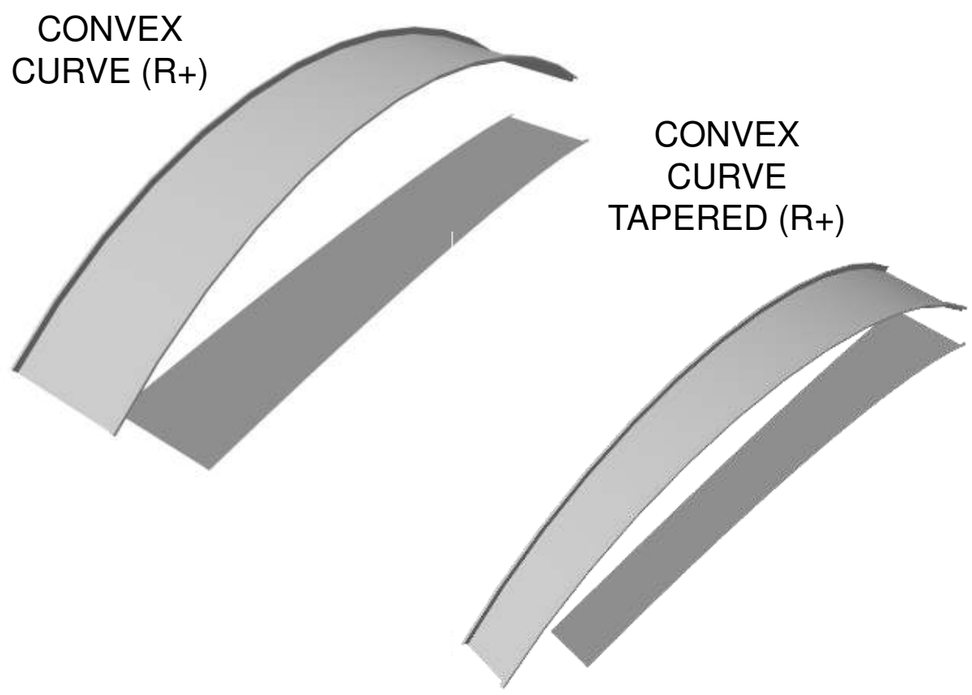
LOCKED-SEAM®

Featuring broad, flat pans and slender, well-defined ribs, this contemporary standing seam cladding profile complements virtually any architectural design.

With ability to be curved and tapered and mechanically seamed concealed fixing this is the ultimate profile for style, versatility and performance.

PROFILE DETAILS





We're Your Best Partner for Your RoofingWalling Solution

PROFILE PROPERTIES

Application	Roofing and Walling
Shape Capability	Straight, Curve, Straight-tapered and Curve-tapered convex Sheets
Finishes Available	ZINCALUME® Steel COLORBOND® Steel
Effective Width	330 mm
Rib Depth	25 mm
Pan Width	328 mm
Rib Distance	330 mm
Standard Thickness (BMT)	0.55 mm
Roof Length *(Manufactured in factory)*	Min. 1000 mm Max. 12000 mm
Tolerance	Length +10 mm; -0 mm Effective Width ± 3 mm
Minimum Roof Slope	3°
Curving Data	Smooth Curve R+1.50 m minimum

Convex (R+)

Material Specification

ZINCALUME® steel complying with AS1397-2001 G300, AZ150 (300 MPa minimum yield stress, 150gr/m² minimum coating mass).

COLORBOND® steel complies with AS/NZ2728:1997.

PROFILE WEIGHT (KG)

THICKNESS (BMT)	COLORBOND® XRW	ZINCALUME®
0.55 mm	4.19	4.13

MAXIMUM SUPPORT SPACING

ROOFS

THICKNESS (mm BMT)	Single (mm)	End (mm)	Internal (mm)
0.55	350	350	700

WIND UPLIFT CAPACITY (kPa)

THICKNESS 0.55 mm BMT

Support	Limit State	Clip Spacing 350	Clip Spacing 700
Plywood min. 15 mm	Serv.	0.87	1.29
	Strength	5.50	4.60
Steel Batten min. 0.75 mm BMT	Serv.	0.87	1.29
	Strength	5.12	2.88

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.

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ROOF DRAINAGE (length of sheet in m')

Rainfall Intensity (mm/hour)	Slope (°)			
	3	5	7.5	10
100	323	402	479	551
200	161	201	240	276
300	108	134	160	184
400	81	101	120	138
500	65	80	96	110

FASTENING METHOD

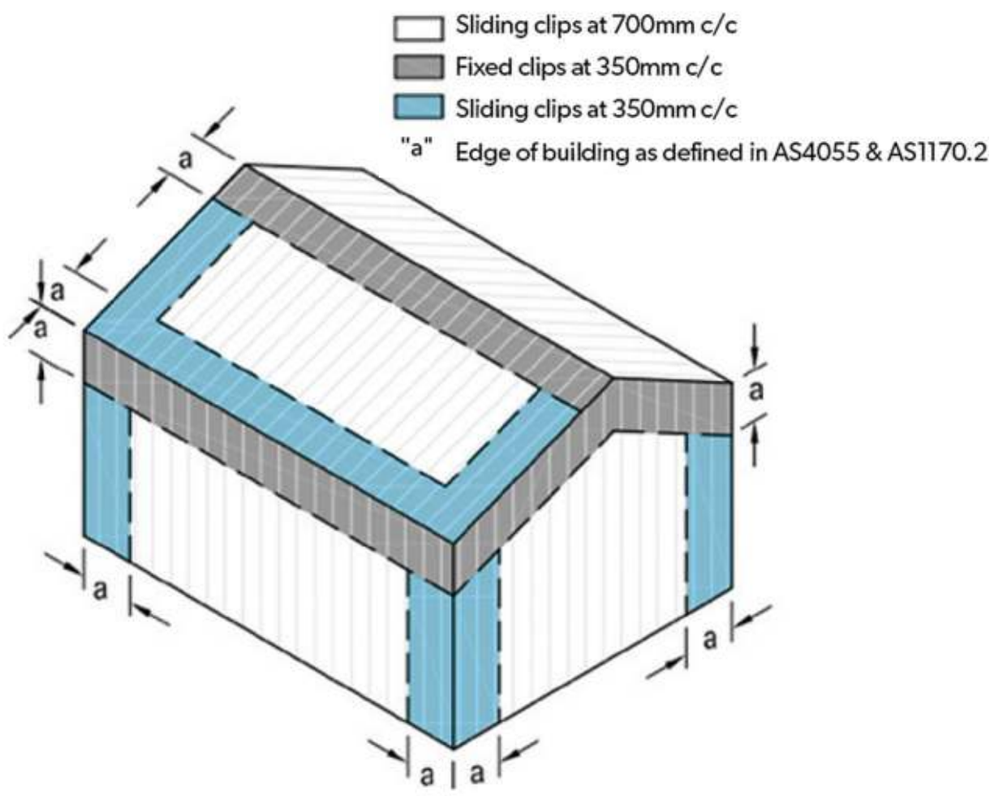
LYSAGHT ® LOCKED-SEAM® is a conceal fixed cladding system utilising 2 type of clips, the fixed clip are usually positioned at building edge and the sliding clip is used at non perimeter areas as well as at building edges.

Fixed clip

Sliding clip

Single lock seam

Step 1 Step 2 Step 3



CLIPS & FASTENERS ESTIMATION:
Number of fasteners = number of clips x 2

LYSAGHT® LOCKED-SEAM® is using 10-24x22 Wafer Head with corrosion class 3 screw for roof without insulation or with maximum 10 mm thickness insulation. It is recommended to use spacer for thicker insulation such as mineral wool.

Pierce-fixing of concealed-fixed claddings is not normally recommended. Please contact us for guidance.

To prevent concealed-fixed cladding from sliding downward in the fixing clips, on very steep pitches, you should pierce-fix through each sheet under the flashing or capping, along the top of the sheets, but not less than 25mm from the ends of a sheet.

OVERLAPPING

End-lap with minimum overlap 200 mm

MANUFACTURING

LYSAGHT® LOCKED-SEAM® 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. Generaly 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

BLUESCOPE LYSAGHT

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