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LYSAGHT[®] FLEX-LOK[™]





www.lysaght.co.id

IVSAGHT® FLEX-LOK™

structural standing seam profile is the latest addition to the LYSAGHT[®] suite of products. Unlike our range of architectural standing seam profile, this roofing system requires no substrate as it is profiled with structural strength to function as a single skin roof to increase its ability in thermal resistance and sound transmission. In addition, LYSAGHT[®] FLEX-LOK[™] can be formed into straight sheet, convex curved sheet or tapered sheet to meet increasingly sophiscated roof geometries demanded by designers today. As such, LYSAGHT[®] FLEX-LOK[™] is the architects, engineers and contractors' ultimate choice for roofing solution.

Advanteges

- No fastener penetration ensures • weather tightness performance.
- Advance concealed clip system provide excellent uplift resistance.
- Available on tapered and curved sheets to fulfill the most challenging design criteria.
- Can be roll-formed on site to avoid end overlapping • and to achieve. extreme length according to the project requirements.
- Available in a range over widths in ferrous and non ferrous material.
- Original clip design minimize the need for • roofing thermal expansion joints.
- Specially engineered thermal pad of the clip can reduce thermal bridging effects.
- Excellent in rain drainage (high ribbed profile).
- The minimum roof pitch is 1.40.

LYSAGHT[®] FLEX-LOK[™]

provides variety of material that can be used to create individual. modern building facades and











LYSAGHT[®] FLEX-LOK™

Mechanical Seamer

LYSAGHT[®] FLEX-LOK[™]'s system seamed onto the clips using a mechanical seaming process. The seamer consists of two seaming rollers that are clamped onto FLEX-LOK[™] panel, plus four guides to ensure the correct height is maintained.







Tools &

Accessories

Hand Seamer

The first 200-300 mm should be hand crimped to enable the seamer to be clamped onto the sheet. The hand tool is used by squeezing the handles inward to close the seam.



FLEX-LOK™ Clip



FLEX-LOK™ Clip is made from Alumunium Alloy 6005. A to AS/NZS 1866 or Alumunium Allov 606 3-T5

Thermal Pad

Specially engineered thermal pad slides neatly onto base of the clip which can reduce or eliminate thermal bridging effects.

FLEX-LOK[™] Clips are extruded from structural grade aluminum. The shape of the clip has been carefully designed to minimize the strength, in both upward (wind uplift) and downward (wind, dead load) conditions. The head of the clips accurately matches the FLEX-LOK[™] sheeting to ensure the sheets slide freely during thermal movement.



Width = 57 mm O screw - 12x14-30

FLEX-LOK™ Clip





Fixing clips. FLEX-LOK^{IM} is anchored onto the purlins with heat insulated concealed clips. Pay attention to the correct direction.

Step 2: Fixing male and fe

Fixing male and female ribs on the clips. Place the female rib overlapping on the male rib from the previous sheet. Lock up (seam) the ribs using machine on site.

the length of roof.



Laying LYSAGHT[®] FLEX-LOK[™] sheet on the clips with hand seamer on the end of rib.

Spesification of	of Steel							
TCT (mm)	0.60 / 0.85		/					
Coverage	2	Straight 300, 400*, 500 Tapered 240 ~ 500			Rib Height 65 mm Coverage 300/400 ⁴ /500 mm			
Minimum Recommen	ded Roof Pitch	2.5%						
		Smooth Pre-Curve		Convex	14 M			
	Concave			18 M				
Minimum Radius of Cu			Convex	55 M (0.60 mm)				
		Spring Curve			60 M (0.85 mm)			
				Concave	80 M (0.60 mm)			
					90 M (0.85 mm)			
Recommended Suppo	ort Spacing	1.5 m ~ 2.0 m						
Coating Mass		150 g/m²						
Yield Strength		300 MPa						
Meets Australian Stan	dard	AS 1397-2001 AS/NZS 2728-2007						

* The standard width of LYSAGHT[®] FLEX-LOK[™] is 400 m.

Constitution of Staal

* The limitation data may different for various material, please contact BlueScope Lysaght Technical Department for advice.

Wind Load Capacities (Kpa)

Туре	Type of Clip	Span (mm)						
of Span		900	1200	1500	1800	2100	2400	2700
End Span	Standard Clip	3.78	2.85	1.95	1.46	1.25	1.17	1.02
	Long Clip	4.16	3.13	2.15	1.56	1.4	1.24	1.099
Internal Span	Standard Clip	3.6	2.77	1.93	1.49	1.32	1.28	1.15
	Long Clip	3.96	3.04	2.13	1.59	1.43	1.35	1.23

Support must no be less than 1.5 mm BMT.

2 The fastened diameter of the seam is 20 mm, tolerance should be within - 0.7mm ~ + 0.3 mm.

3 Seaming up can be finished by twice fastening, first to diameter about 21-22 mm and then to the final size.

4 Values provided here are the strength of ultimate wind capacities.



The following figures show several typical LYSAGHT[●] FLEX-LOK[™] system commonly encountered. Obviously, the system are dependent on specific and should be tailored to suit the thermal, acoustic, ventilation or economic requirements.

Double Skin Rafter/Truss Roof System - Clip fixed to W-DEK® rib



Double Skin Purlin Roof System - Clip fixed to sub-purlin





Double Skin Rafter/Truss Roof System - Clip fixed to sub-purlin

