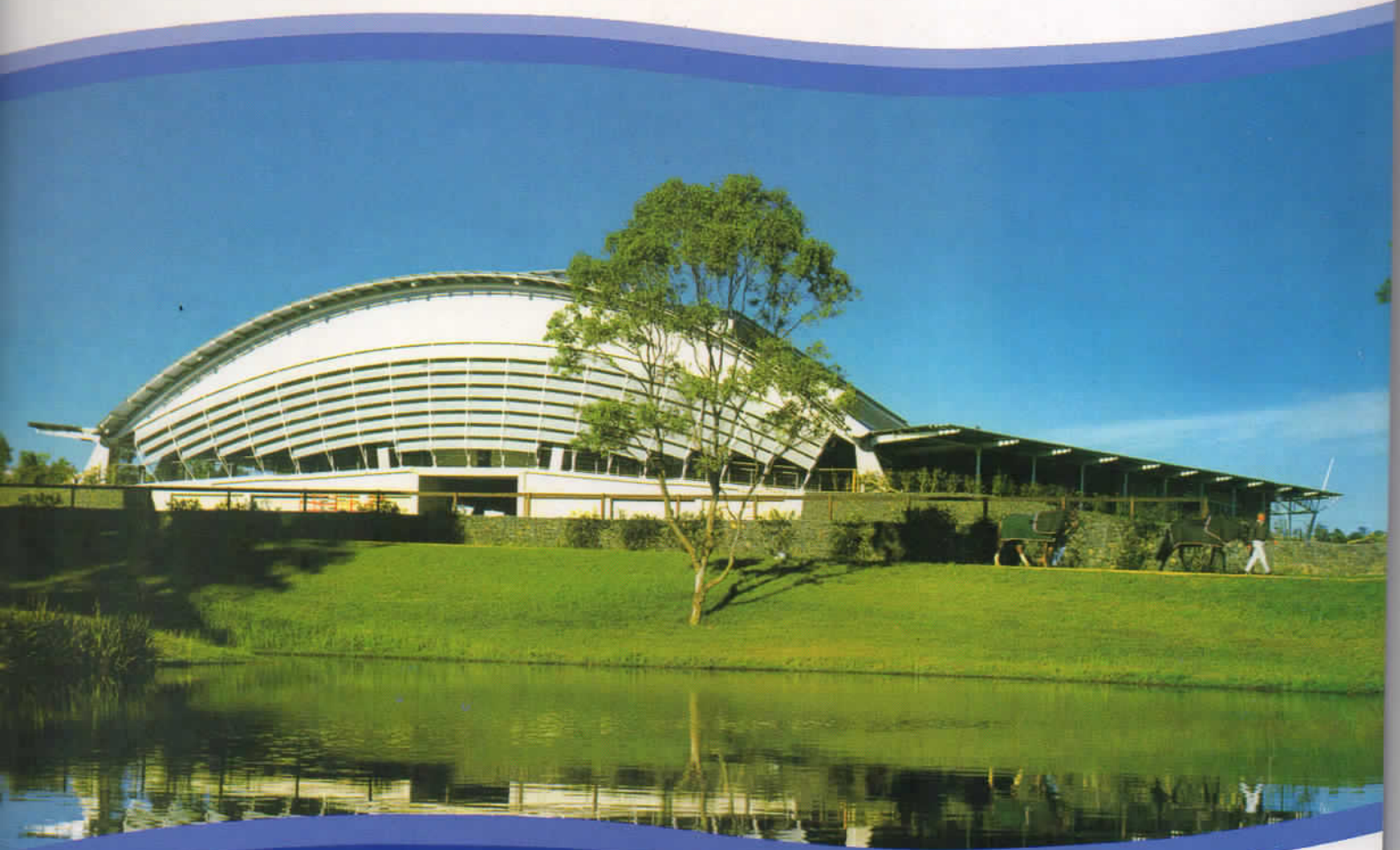


LYSAGHT



" One and Only "



LYSAGHT AUSDEK[®]

Square Ribbed Steel Roof & Wall Cladding



DESIGN
FLEXIBILITY



DURABILITY/
SECURITY



HI-TECH
PRODUCTION



RECYCLING



COLOUR
CHOICES



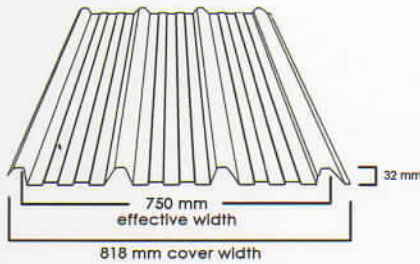
THERMAL
EFFICIENCY



WARRANTY

LYSAGHT AUSDEK

Square Ribbed Steel Roof & Wall Cladding



Specification

LYSAGHT AUSDEK is trapezoidal ribbed profile with subtle fluting to the pans. Its bold and widely spaced ribs give pleasing visual affects. Its superior spanning capabilities, economical effective cover make LYSAGHT AUSDEK an ideal and economical choice for housing, commercial and industrial applications. LYSAGHT AUSDEK is also suitable for carports, verandas, fences and hordings. When used as wall cladding, hordings facades, fences, the trapezoidal ribs can be run vertically or horizontally.

Latest Technology

State of the art testing methods have been used to determine the performance of LYSAGHT AUSDEK. The direct pressure testing rig at BlueScope Lysaght's NATA

registered testing laboratory has been used to develop the limit state performance of the cladding. The Direct Pressure test rig offers much better modeling of wind load, compared to traditional air bag test methods.

Simple, Low Cost Fixing

The long, straight lengths of LYSAGHT AUSDEK can be lowered into place and easily aligned. Fixing is simple and fast.

Minimum Roof Pitch

Long length and a special anti capillary side lap allow LYSAGHT AUSDEK to be used safely on pitches as low as 3°.

Sprung Curved Sheeting

LYSAGHT AUSDEK can be Sprung curved over an arched roof for detail contact PT BlueScope Lysaght Indonesia Technical Department.

Material

All LYSAGHT AUSDEK finishes have base steel G550 (550 MPa minimum yield stress) and 0.35, 0.40, 0.45, 0.50, 0.55 mm base metal thickness.



Finish conforms to AS 1397-G550 AZ150. The Clean Colorbond pre-painted finish is applied over Zinalume steel, coating class AZ150 (minimum average 150g/m² coating mass) and is accordance with AS 2728, "Pre-Painted and Organic Film/Metal Laminate Products".

Mix and match

The wide choice of colours and styles from BlueScope Lysaght Indonesia allows you to mix and match with ease.

Advantage of High Steel Tensile

The yield strength of high steel tensile G550 ZINCALUME steel is almost four times as high as that G300 ZINCALUME or soft steel. Due to this significant difference, G550 high tensile steel roofing and walling profiles offer the following benefits over G300 products :

- longer spanning capabilities (less purlins)
- higher load carrying capabilities (less permanent deflections)
- greater durability (less dents)
- reduce building cost

COMPATIBILITY

Lead or copper are not compatible with Clean COLORBOND or

Mass & Yield LYSAGHT AUSDEK

Thickness (mm)		COLORBOND XRW		ZINCALUME	
BMT	TCT	Kg/m	Kg/m ²	Kg/m	Kg/m ²
0.35	0.40	2.72	3.62	2.66	3.55
0.40	0.45	3.08	4.10	3.02	4.03
0.45	0.50	3.44	4.58	3.38	4.51
0.50	0.55	3.80	5.06	3.74	4.98
0.55	0.60	4.16	5.54	4.10	5.46



Method of Fixing	Fixing to Steel < 6 mm thick	Fixing to Timber Support	Fastener Type AS 3566 Class 3
Crest Fixed	ITW BUILDEX Selfdrilling Screw CTEKS 12-14 X 45 HGS	ITW BUILDEX Selfdrilling Screw CTEKS 12-11 X 65 HGS	
Valley Fixed for Walls Only	ITW BUILDEX Selfdrilling Screw CTEKS 12-14 X 20 HWFS	ITW BUILDEX Selfdrilling Screw CTEKS 12-11 X 25 HGS	
Side Laps and Accessories	ITW BUILDEX Selfdrilling Screw CSP 10-16 X 16 HWFS		

ZINCALUME steel. Copper gutters, pipes etc, must not be discharged onto ZINCALUME or Clean COLORBOND contact to bare steel.

Fastener

PT BlueScope Lysaght Indonesia recommend that fasteners be selected having durability compatible with the roof material. Poor quality fasteners will lead to unsightly staining and or early failure of the roof material. The use of Electro Plated Zinc or Cadmium Plated screws without additional protection are not recommended.

Fasteners must comply with Australian Standard AS 3566 Amendment 1990 class 3 screws-self drilling for the Building and Construction industry. Approved fasteners, Colour matched or plain are available from BlueScope Lysaght Indonesia.

Tolerances

Length : ±0,15 mm
Cover Width : ±4 mm

Length

Sheets are available custom cut up to 15 m. Longer lengths can be supplied, provided satisfactory transport and on-site handling can be arranged.

Handling On Site

Long lengths should be lifted using a spreader bar and fabric sling. Clean dry gloves should be used. The sheets should not be dragged over rough surfaces or each other. Care should also be taken to prevent tolls dragging on the surface.

Care and Storage Prior to Installation

Roof sheeting is delivered in strapped bundles and should not be allowed to get wet. Bundles should be stored clear of the ground and protected by waterproof covers. If bundles become wet, the sheets should be separated, wiped with a clean cloth and stacked to allow air circulation and complete drying.



Cutting Sheet On Site

A power saw with metal cutting blade is the best method for cutting LYSAGHT AUSDEK sheet on site. Metal blades are preferred to carborundum discs as they produce fewer damaging hot metal particles, and leave less burr on the cut sheet. When cutting roof sheeting take care to protect the sheeting from swarf. Whenever possible, cutting should be done on the ground and not over other coated material. Sheet should be placed face down on padded supports. Cutting should not be carried out on top of other painted surface.

Laying Procedures

LYSAGHT AUSDEK uses male and female ribs for lapping. Lift sheets



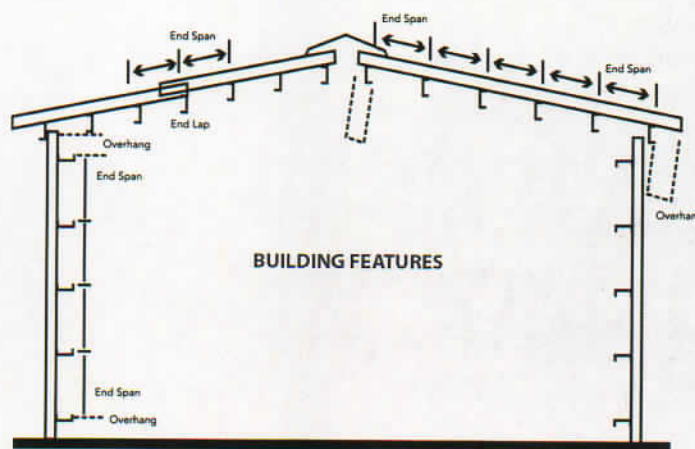
onto roof the right way up with either all male or all female ribs facing the same direction, otherwise sheets will have to be turned end-for-end during fixing. Should it be necessary to use more than one sheet to provide full length coverage, commence sheet laying at the gutter line and lay subsequent sheet over this sheet to the ridge or fascia. Allow a minimum end lap of 150 mm. Where roof pitches are less than 25°, turn sheet ends upwards at ridges or fascia, and turn downward or lipped slightly at the gutters, with a turn up tool. Walk only in the pans of LYSAGHT TRIMDEK, stand on ribs only at supports.

Fastening Sheets to Supports

LYSAGHT AUSDEK may be crest fixed to timber or steel roofing or walling supports, or valley fixed to steel support or timber walling supports. Do not locate fasteners less than 25 mm from end of sheets.

Walking On Roof Sheeting

When walking along the length of LYSAGHT AUSDEK walk on at least to pans. When walking across the width of roof sheeting, especially overhangs, walk over or close to the roofing supports. Generally keep weight evenly distributed over the soles of the feet. Clean and soft soled shoes should be worn. Care should be taken with new sheets as they may be slippery



SPAN TERMINOLOGY

Cleaning Up

All metallic swarf and other debris should be swept from the roof area and gutters regularly, at the end of the day and at the completion of the installation. Failure to do so can lead to surface staining as the metal particles oxidize.

Joint Sealing

As it is not practical to solder ZINCALUME steel, where sealed joints are required use screw or rivets and silicone sealant. Only sealants branded as suitable for use with galvanized or ZINCALUME steel should be used.

LYSAGHT Products Rainwater Goods

Whether you're renovating a classic house or searching for a distinctive look for a new home, add the perfect finishing touch to the LYSAGHT AUSDEK roof with our extensive range of rainwater goods. BlueScope Lysaght Indonesia rainwater goods provide the perfect finishing touch because they are designed to match our steel roofing and walling profiles exactly. Our rainwater goods are manufactured from ZINCALUME

steel and Clean COLORBOND pre-painted steel, so they'll stand up to years of the harshest Indonesian climate. The choice of colours and styles is extensive covering everything you could need, from gutters and downpipes, to fascia, flashings, and cappings, as well as fasteners and fixing clips.

Non Cyclonic Areas

A non-cyclonic area is defined as one in which a tropical cyclone is unlikely occur, in accordance with AS1170.2- 1989, "SAA Loading Code, Part 2 Wind Loads"

Contact your nearest BlueScope Lysaght Indonesia Sales Office for cyclonic area design and fixing. According to Indonesian Standard "Peraturan Pembebanan Indonesia untuk Gedung 1983" stated that the minimum wind pressure for the area within 5 km for coast is 40 kg/m² (around 25 m/s). The minimum wind pressure for area outside 5 km from coast is 35 kg/m² (around 20 m/s).

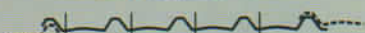
FASTENER SPACING

Crest Fastener Location



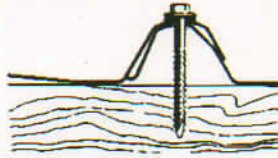
4 fasteners per sheet - End and Internal Supports

Valley Fastener Location

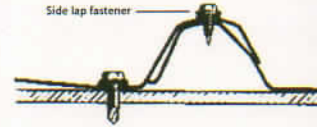


Side Lap Fastener
4 fastener per sheet - End and Internal Supports

Crest Fixing for Roofing & Walling (shown to timber)



Valley Fixing for Walling Only (shown to steel)



Note: Do not over tighten screws.
Do not locate fastener less than 25 mm from ends of sheet.
Fasteners Holes: Do not use punches to form fastener holes.
Use correct size drill to suit fastener, or selfdrilling screws.

Base metal thickness	total coated thickness	type of span	fasteners	limit state	span [mm]											
					600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	
0.35	0.40	single	1 per Rib	serviceability	1.64	1.32	1.04	0.83	0.69	0.62	0.58					
		strength		7.3	5.75	4.4	3.35	2.50	2.20	1.95						
		end		serviceability	1.45	1.35	1.25	1.14	1.03	0.89	0.75	0.59	0.44			
		strength		7.35	5.40	4.00	2.95	2.25	1.80	1.55	1.45	1.40				
		internal		serviceability	1.66	1.51	1.36	1.22	1.08	0.94	0.81	0.68	0.55			
		strength		8.05	5.90	4.30	3.15	2.4	1.90	1.65	1.55	1.45				
0.40	0.45	single	1 per Rib	serviceability	2.56	1.99	1.48	1.11	0.90	0.81	0.80					
		strength		9.00	7.10	5.40	4.10	3.20	2.70	2.40						
		end		serviceability	2.11	1.92	1.73	1.54	1.35	1.15	0.95	0.75	0.55			
		strength		8.90	6.60	4.85	3.60	2.80	2.25	1.95	1.85	1.80				
		internal		serviceability	2.24	2.02	1.81	1.61	1.42	1.23	1.06	0.90	0.74			
		strength		9.60	7.10	5.25	3.90	3.00	2.40	2.10	1.95	1.90				
0.45	0.50	single	1 per Rib	serviceability	3.37	2.60	1.92	1.40	1.09	0.94	0.71	0.66	0.56			
		strength		10.35	8.20	6.3	4.80	3.75	3.10	2.65	2.15	1.50				
		end		serviceability	2.89	2.55	2.23	1.92	1.63	1.36	1.11	0.88	0.66	0.43		
		strength		9.75	7.35	5.50	4.15	3.25	2.60	2.25	2.65	1.95	1.80			
		internal		serviceability	2.97	2.63	2.32	2.05	1.80	1.56	1.34	1.13	0.93	0.72	0.51	
		strength		10.6	7.95	6.00	4.55	3.55	2.85	2.45	2.25	2.15	2.00	1.80		
0.50	0.55	single	1 per Rib	serviceability	4.09	3.21	2.40	1.73	1.26	0.97	0.75	0.67	0.60			
		strength		11.5	9.20	7.15	5.45	4.20	3.35	2.8	2.4	1.95				
		end		serviceability	3.81	3.29	2.78	2.31	1.89	1.52	1.22	0.98	0.78	0.60		
		strength		9.95	7.70	5.95	4.60	3.60	2.90	2.45	2.15	2.00	1.85			
		internal		serviceability	3.87	3.41	2.98	2.59	2.23	1.90	1.62	1.37	1.15	0.94	0.74	
		strength		11.2	8.60	6.65	5.15	4.05	3.30	2.75	4.45	2.3	2.15	2.05		
0.55	0.60	single	1 per Rib	serviceability	4.81	3.81	2.87	2.05	1.42	1.00	0.78	0.67	0.63			
		strength		12.00	10.20	8.05	6.15	4.7	3.65	3.00	2.65	2.40				
		end		serviceability	4.73	4.02	3.33	2.70	2.14	1.68	1.33	1.07	0.89	0.76	0.66	
		strength		10.2	8.10	6.40	5.05	4.00	3.25	2.65	2.30	2.05	1.90	1.80		
		internal		serviceability	4.76	4.19	3.64	3.12	2.65	2.24	1.89	1.60	1.36	1.15	0.96	
		strength		11.8	9.30	7.35	5.80	4.60	3.75	3.10	2.70	2.50	2.35	2.30		

- Notes:**
- Serviceability limit state is based on a deflection limit of: $(\text{span}/120) + (\text{pitch}/30)$
 - Strength limit state capacities are base on the failure load (ultimate capacity)
 - To obtain the design strength capacity of the sheeting, a capacity reduction factor of 0.9 should be applied
 - The above pressures are applicable when the cladding is fixed to a minimum of 1.0 mm material

COLORBOND® COLOR RANGE

Angsana Stone Coral Blue Cottage Green™ Manor Red™ Mintsea Green



Pale Eucalypt Surfmist™ Shale Gray™ Sonata Blue Windspray™



Note : colors that printed on this brochure may be different with the original.

clean **Colorbond**
Long lasting beauty

ZINCALUME®



Zinalume
Made Only By BlueScope Steel

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LYSAGHT

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