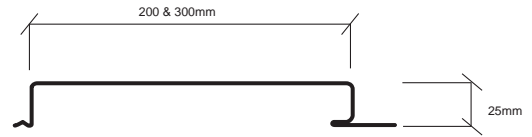




LYSAGHT

LYSAGHT® X-VERGE™

Elegant Contemporary
Profile for Modern and
Minimalist Architectural



SEAMLESS, SLEEK, SOPHISTICATED

Your best design is incomplete without a sleek and versatile facade to add exciting visual dimensions and complement the shape and form of the building.

Crisp, clean, and versatile, LYSAGHT® X-VERGE™ opens up the geometric possibilities of the facade with sweeping planes. Flexible in long length running vertically or horizontally, or in shorter lengths to create the block effect, the folded planes, and shadowed channels of X-VERGE™ subtly enhances the modern minimalist effect just the way you want it.

- Strong and versatile for exterior and interior walls, ceiling, soffit, and fascia applications.
- Weather-tight and securely conceal-fixed, uninterrupted by any piercings or connections.
- Easy and fast installation

PHYSICAL PROPERTIES OF LYSAGHT® X-VERGE™

	Malaysia	Singapore
Base Metal Thickness (BMT)	0.55mm	
Finishes	COLORBOND® Steel	COLORBOND® ULTRA Steel
Coating Class (min.)	AZ150	AZ200
Total Coated Thickness (TCT)	0.60mm	0.61mm
Cover Width	200 & 300mm (Non-standard 400 & 500mm width available upon request)	200 & 300mm
Mass per unit area	200mm – 6.08kg/m ² 300mm – 6.03kg/m ²	200mm – 6.85kg/m ² 300mm – 6.10kg/m ²
Panel Depth	25mm	
Length	L <6000mm (For Length longer than 6000mm, please contact Lysaght representative)	
Maximum support spacing		
Walling application		
Single Span	1200mm	
End Span	1200mm	
Internal Span	1500mm	
Overhang	100mm	
Tolerances	Length +0mm, -5mm Cover width ± 4mm Rib height ± 0.5mm	
Grade of Steel	G300 (300N/ mm ² yield strength)	

Delivery

Always check the material upon delivery. Check for damages and check material quantities against the delivery order. Note any damages or shortages at the time of delivery.

Handling

Handle panel bundles and individual panel with care to avoid damage that can result from buckling and or bending of panels.

- Lift the sheet bundles with crane directly from the delivery truck onto the designated location for large building projects.
- For long length sheets, the use of spreader bar and approved sling is recommended.
- For small to medium size projects without mechanical handling facilities, sheets can be unloaded by hand and passed up to the designated location one at a time. For personal safety and to preserve the surface finish, sheets should be handled wearing clean dry gloves.

Do not slide sheets over rough surfaces or over each other and do not drag tools or any other materials over sheets.

Care and storage prior to installation

Store the panels and other materials in a dry, well-ventilated area and away from traffic. Elevate one end of the bundles so that any moisture that may have accumulated during transportation can run-off.

Be sure that air can be circulated freely around the bundles to avoid build-up of moisture.

Never store the material in direct contact with the ground.

If packs become wet, sheets should be separated and wiped clean and allowed to dry.

Marking out

A pencil of any colour may be used except BLACK or so-called LEAD pencils because the graphite content in black pencils can create an electric cell when wet and thus cause deterioration of the finish.

Other recommended marking tools are a string line with chalk dusts and a fine, felt-tipped marker.

Cutting

Using a power saw with a metal cutting steel blade is the best way to cut sheets on site, because it generates larger and cooler particles than abrasive discs.

Where possible, cutting should be minimized by using factory supplied cut-to-length sheets.

Sheets cut on site should, where practical, be cut on the ground, with the exterior colour finish of the pre-painted sheet facing down. Care should be taken to ensure hot swarf does not come in contact with nearby COLORBOND® steel sheets.

DO NOT cut over the top of other coated products where debris may fall onto clean sheets.

Where cutting must be carried out near sheets already installed, the area around the cut must be masked and the stream of hot particles directed away from completed work.

Drilling

The area around the hole should be masked to shield the product from hot swarf.

Compatibility

Lead, copper and green or some chemically-treated timbers are not compatible with COLORBOND® steel and ZINCALUME® steel. Direct contact should therefore be avoided.

Where inside condensation conditions are likely, coated steel girts should be used so that any ZINCALUME® steel to bare steel contact is avoided.

Sealed Joints

Where sealed joints are required, use neutral-cure sealant in conjunction with mechanical fasteners. Soldering is not recommended as it is not practical to solder ZINCALUME® steel in the field.

Cleaning up

Ensure that metallic particles are swept off the sheet surfaces immediately following any cutting, drilling, etc.

INSTALLATION

1. Prior to commencement of fixing, the installer should ensure that girts are in place and properly aligned. Any adjustments should be made before fixing, as they will be difficult or impossible to rectify later.
2. Recommended spacing between supports for walls is 1200-1500mm for two or more span conditions.
3. LYSAGHT® X-VERGE™ steel cladding is designed to be fastened to the support member with fasteners (e.g. No. 10 – 16 x 16mm wafer head) on female rib. Then insert the male rib into female rib as per below figure and fasten the female rib again before proceeding with the next sheet.
4. The first layer of LYSAGHT® X-VERGE™ steel cladding shall be positioned with particular care before fastening it onto the support member. To ensure that it lies straight and square, it shall be checked against the member that is perpendicular to the LYSAGHT® X-VERGE™ orientation.
5. Each sheet shall be fully fastened before proceeding to the next sheet.

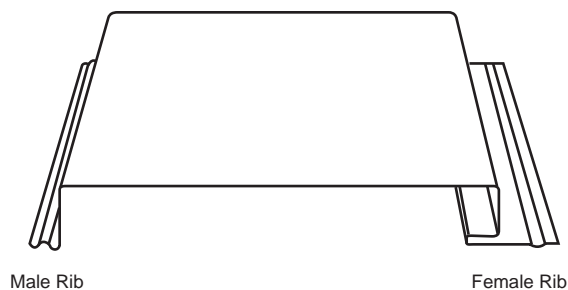
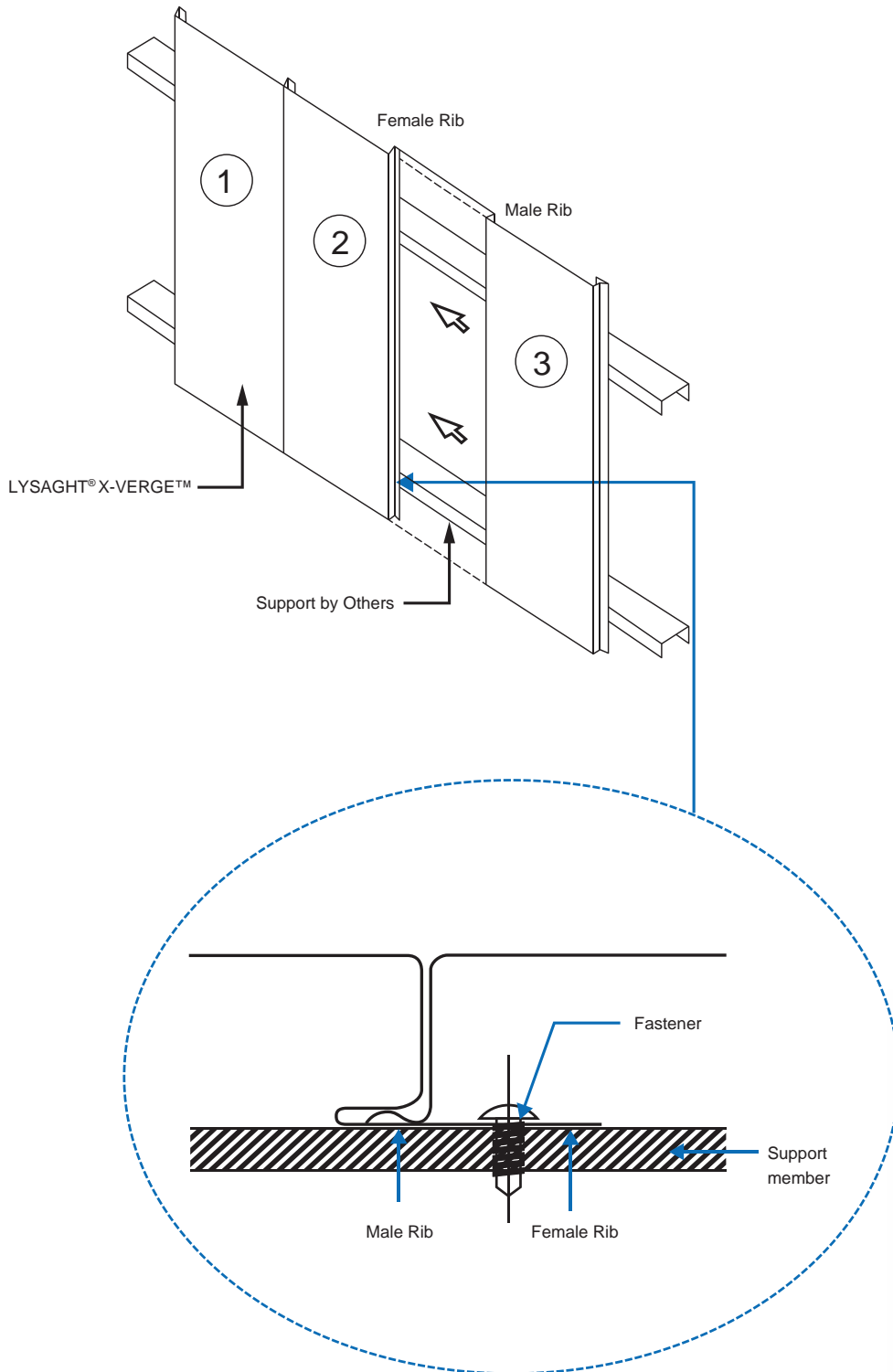


Figure 1.0: Location of female rib and male rib of LYSAGHT® X-VERGE™

Figure 2.0: Fastening to support of LYSAGHT® X-VERGE™



OIL CANNING

Flat metal surfaces (e.g. LYSAGHT® X-VERGE™) will display waviness commonly referred to as oil canning. This is caused by steel mill tolerances. Oil canning is a characteristic, not a defect, resulting from panels manufactured from light gauge metal. Panels are to be factory corrective levelled to minimize oil canning. Oil canning is not a valid reason for panel rejection.

ZINCALUME® STEEL AND COLORBOND® STEEL

STRONG BRANDS, QUALITY MATERIALS

LYSAGHT® products are made of highest quality material, namely COLORBOND® steel and ZINCALUME® steel which are the leading materials for external cladding application. COLORBOND® steel and ZINCALUME® steel have been used on countless buildings to portray modern architecture works of art, ranges from the classic roofing to advance façade for industrial, commercial and residential buildings.

Colorbond®

COLORBOND® steel is a pre-painted finished product with ZINCALUME® steel substrate to deliver both superior corrosion resistance and excellent colour performance.

It comes with the THERMATECH® solar reflectance technology and Clean technology to minimize tropical dirt staining while lowering urban heat island effect, delivering longevity and minimal maintenance to your external cladding.

COLORBOND® steel is backed by BlueScope's material warranty*
Malaysia: Up to 25* Years of warranty
Singapore: Up to 10* Years of warranty

Product Attributes

- Pre-painted finish on top of ZINCALUME® steel substrate to deliver superior corrosion resistance.
- Superior primer technology which prevents paint delamination.
- Proprietary super polyester paint system proven to provide excellent colour performance.
- Clean technology incorporated to resist against tropical dirt staining.
- THERMATECH® solar reflectance technology to allow for lower temperature cladding.
- Wide varieties of colours and finishes to cater for your building design needs.

Zincalume®

ZINCALUME® steel is a metallic coated steel product composed of 55% aluminium, 43.5% zinc and 1.5% silicon (aluminium-zinc alloy coating) that can provide superior corrosion resistance for your external cladding, with expected lifespan that's four times the life of generic alternatives (GI).

ZINCALUME® steel is backed by BlueScope's material warranty*
Malaysia: Up to 25* Years of warranty
Singapore: Up to 10* Years of warranty

Product Attributes

- Superior corrosion resistance due to the minimum coating class of AZ150.
- Initial resistance to surface marking and wet storage corrosion due to the proprietary clear resin coating.
- Better aesthetics compared to generic alternatives (Al-Zn) due to less surface darkening, afforded by the proprietary clear resin coating.
- Lightweight and thermally efficient compared to conventional roofing materials (e.g. concrete and clay tiles)
- Excellent flexibility in design as steel can be bent and curved to form truly unique designs.

* Warranty terms & warranty apply

This material warranty may vary to buildings nearer to marine or industrial environment and is subjected to prior agreement by BlueScope. For full terms and conditions and to determine the eligibility of your project for the warranty, please contact your Key Account Manager.

There are different internal and external environments affecting the longevity of COLORBOND® steel and ZINCALUME® steel, hence feel free to consult our material experts for more specialized recommendations.

Examples of recommendations:

- Direct contact between COLORBOND® steel or ZINCALUME® steel with copper, lead and stainless steel should be avoided.

If condensation on the reverse side of roofing sheet is likely, vapour barrier should be installed to shield COLORBOND® steel or ZINCALUME® steel from prolonged exposure to the condensation (moisture).

REFERENCES



Hap Seng Business Park @ Shah Alam



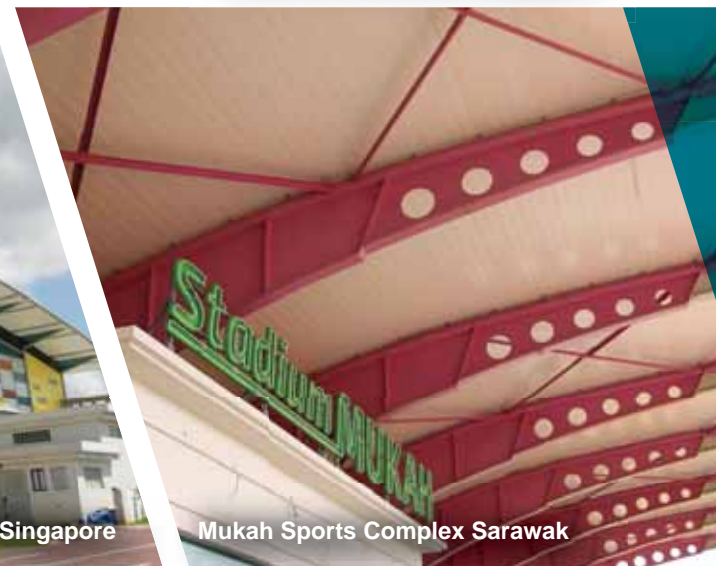
Lysaght Sarawak Pavilion



West Park BizCentral Singapore



Sengkang Sport Centre Singapore



Mukah Sports Complex Sarawak



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COATING



COLOUR CHOICES



DESIGN FLEXIBILITY



DURABILITY / SECURITY



HI-TECH PRODUCTION



RECYCLING



TERMITE PROOF



THERMAL EFFICIENCY



WARRANTY

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* Warranty terms and conditions apply.

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