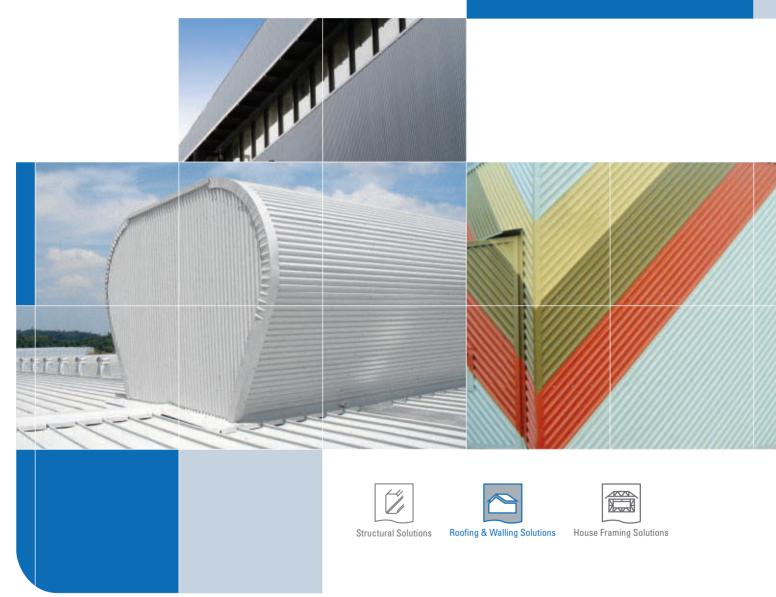
NS BLUESCOPE LYSAGHT MALAYSIA

LYSAGHT® SPANDEK® OPTIMA[™]

Installation Guide





LYSAGHT® **SPANDEK® OPTIMA**[™]

Trapezoidal steel cladding with longer spanning capability



INSTALLATION METHOD

	Fixing to steel up to 0.75mm BMT	Fixing to steel >0.75mm to 3mm BMT	Fixing to timber
Crest fixed	Self drilling screws with hex. washer-head & EPDM seal, 12 - 11 x 50 (M5.5 - 11 x 50)	Self drilling screws with hex. washer-head & EPDM seal, 12 - 14 x 50 (M5.5 - 14 x 50) OR 12 - 14 x 55 (M5.5 - 14 x 55)	Type 17 Self drilling screws with hex. washer-head & EPDM seal, <i>Softwood:</i> 12 - 11 x 65 (M5.5 - 11 x 65) <i>Hardwood:</i> 12 - 11 x 50 (M5.5 - 11 x 50)
Valley fixed	Self drilling screws with hex. washer-head & EPDM seal, 10 - 12 x 20 (M4.8 - 12 x 20) OR Self drilling screws with hex. washer-head & EPDM seal, 10 - 16 x 16 (M4.8 - 16 x 16)	Self drilling screws with hex. washer-head & EPDM seal, 12 - 14 x 20 (M5.5 - 14 x 20) OR 12 - 14 x 30 (M5.5 - 14 x 30)	Type 17 Self drilling screws with hex. washer-head & EPDM seal <i>Softwood</i> : 10 - 12 x 30 (M4.8 - 12 x 30) <i>Hardwood</i> : 10 - 12 x 20 (M4.8 - 12 x 20)
Side lap & accessories	Self drilling hex. head screws with washer & EPDM seal	10 - 16 x 16 OR EPDM seal: 8 - 15 x 15	

FASTENERS

LYSAGHT® SPANDEK® OPTIMATM requires 5 fasteners per sheet per support as shown below. Fasteners should comply to AS3566, Class 3 or Class 4.

Roof - Screw fix through rib

Crest - 5 fixing

FASTENING SHEETS TO SUPPORTS

LYSAGHT® SPANDEK® OPTIMATM is pierce-fixed to timber or steel supports. This means that fastener screws pass through the sheeting.

You can place screws for LYSAGHT[®] SPANDEK[®] OPTIMATM through the crests or in the valleys. To maximise watertightness, always place roof screws through the crests. For walling, you may use either crest- or valley-fixing.

Always drive the screws perpendicular to the sheeting, and in the centre of the valley or rib. Don't place fasteners less than 25mm from the ends of sheets.

Wall - Screw fix through pan



SIDE-LAPS

The edge of LYSAGHT[®] SPANDEK[®] OPTIMA[™] with the anti-capillary groove is always the underlap (see figures on this page). It is generally considered good practice to use fasteners along side-laps however, when cladding is supported as indicated in Maximum Support Spacings, side-lap fasteners are not usually needed for strength.

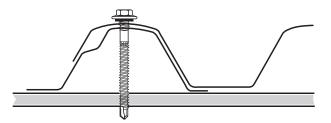
END LAPPING

End-laps are not usually necessary because LYSAGHT® SPANDEK® OPTIMA™ is available in long lengths.

If you want end-laps, seek advice from our information line on the sequence of laying and the amount of overlap.

ENDS OF SHEETS

It is usual to allow roof sheets to overlap into gutters by about 50mm. If the roof pitch is less than 25° or extreme weather is expected, the valleys of sheets should be turned-down at lower ends, and turned-up at upper ends by about 80°.



Crest fixing for roof or walls

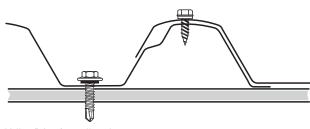
LAYING PROCEDURE

For maximum weather-tightness, start laying sheets from the end of the building that will be in the lee of the worst-anticipated or prevailing weather.

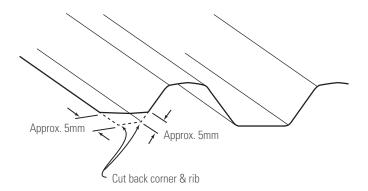
It is much easier and safer to turn sheets on the ground than up on the roof.

Before lifting sheets on to the roof, check that they are the correct way up and the overlapping side is towards the edge of the roof from which installation will start.

Place bundles of sheets over or near firm supports, not at mid span of roof members.



Valley fixing for walls only



SHEET-ENDS ON LOW SLOPES

When LYSAGHT[®] SPANDEK[®] OPTIMATM is laid on slopes of 5 degrees or less, cut back the corner of the under-sheet, at the downhill end of the sheet, to block capillary action.

ADVERSE CONDITIONS

If this product is to be used in marine, severe industrial, or unusually corrosive environments, ask for advice from our information line.

METAL & TIMBER COMPATIBILITY

Lead, copper, free carbon, stainless steel, bare steel and green or some chemically-treated timber are not compatible with this product. Don't allow any contact of the product with those materials, nor discharge of rainwater from them onto the product. Supporting members should be coated to avoid problems with underside condensation. If there are doubts about the compatibility of other products being used, ask for advice from our information line.

MAINTENANCE

Optimum product life will be achieved if all external walls are washed regularly.

Areas not cleaned by natural rainfall (such as the tops of walls sheltered by eaves) should be washed down every six months.

SAFETY, STORAGE AND HANDLING

LYSAGHT® product may be sharp and heavy.

It is recommended that heavy-duty cut resistant gloves and appropriate manual handling techniques or a lifting plan be used when handling material.

Keep the product dry and clear off the ground. If stacked or bundled product becomes wet, separate it, wipe it with a clean cloth to dry thoroughly.

Handle materials carefully to avoid damage: don't drag materials over rough surfaces or each other; don't drag tools over material; protect from swarf.



CUTTING

For cutting thin metal on site, we recommend a circular saw with a metal-cutting blade because it produces fewer damaging hot metal particles and leaves less resultant burr than a carborundum disc.

Cut materials over the ground and not over other materials.

Sweep all metallic swarf and other debris from roof areas and gutters at the end of each day and at the completion of the installation. Failure to do so can lead to surface staining when the metal particles rust.

SEALED JOINTS

For sealed joints use screws or aluminium rivets and neutral-cure silicone sealant branded as suitable for use with galvanised or ZINCALUME® steel.



Trusted Partner for Building Systems

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