



LYSAGHT® SPANDEK® Installation Guide



DESIGN
FLEXIBILITY



DURABILITY /
SECURITY



HI-TECH
PRODUCTION



RECYCLING



COLOUR
CHOICES



THERMAL
EFFICIENCY



WARRANTY



1. GENERAL ROOFING INSTALLATION PROCEDURE

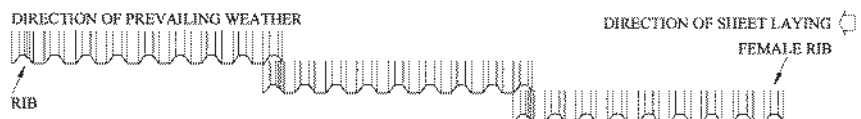
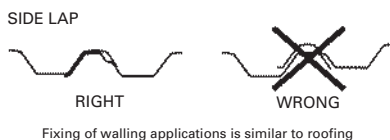
- Prior to commencement of fixing, the installer should ensure that purlins, girts or battens are truly in place and that the slope requirements are met. Any adjustments found necessary should be made prior to proceeding with fixing, as they will be difficult or impossible to rectify later.
- When lifting sheets on to the roof frame ready for laying and fastening, care should be taken to make sure all sheets are the correct way up with the overlapping side towards the edge of the roof from which installation will commence. Otherwise sheets will have to be turned over and/or turned end for end. Sheet bundles should be placed over or near purlin supports, not at mid span of the purlins.
- The first sheet should be positioned with particular care before fastening, to ensure that it lies straight and square and is correctly located in relation to order building elements:
 - i. Transversely in relation to the barge-fascia or end-wall, bearing in mind the type of flashing or capping treatment to be used;
 - ii. Longitudinally in relation to gutter and ridge or barge-fascia or parapet or transverse wall.
- Roof sheets should overhang about 50mm into gutters.



Sub-station at BlueScope Lysaght, Singapore

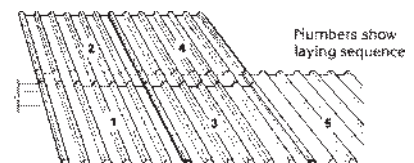
2. INSTALLATION OF LYSAGHT® SPANDEK®

- When lifting roofing sheets earlier onto roof frames, ready for installation, make sure either all male or all female ribs facing the same direction, otherwise sheets will have to be turned end-for-end during fixing.
- The first sheet of LYSAGHT® SPANDEK® must be positioned with care before fastening with hex head self-tapping screws to ensure that it lies straight and square.
- When the first sheet is fastened in position, a string line can be stretched across the lower end of the roof alignment. The line will then be used as a guide for the subsequent roof panel for installation.
- Position and fasten the next roofing sheet to each support the male rib of the installed sheet. Place the second sheet over the second run of the roofing sheets and fastened the sheets together before proceeding to the next sheet.
- Make sure the side lapping is installed correctly. The side rib with the longitudinal anticapillary flute (male rib) supposed to be covered by the side rib without a longitudinal flute (female rib)



- Each sheet should be fully fastened before proceeding to the next sheet. The side lap with preceding sheet should be fastened last.
- In the case that two or more shorter sheets installed to provide full length coverage due to handling or transport considera-

tions, lay each complete line of sheets in turn from gutter/ eaves to ridge, as shown:



TIPS FOR INSPECTION

- ✓ Identify the type of roofing profile used
- ✓ Look out for any sign of corrosion to perforation
- ✓ Look out for any detachment of fasteners from roof and steel purlins/ structures
- ✓ Look out for any detachment of related flashing and capping
- ✓ Look out for roof penetrations such as vent pipes and trapdoors if there is any water stagnation
- ✓ Look out for any debris left during construction such as screws, nails and other trades debris
- ✓ Look out for the type of lightning conductor used (lead and copper are non-compatible materials)
- ✓ Look out for disengagement of LYSAGHT® SPANDEK® roof panel from each other
- ✓ Look out for deteriorated sealant used
- ✓ Look out for wall and flashing/capping abutments
- ✓ Look out for end laps and side laps of roof and flashing/capping



Trusted Partner for Building Systems

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