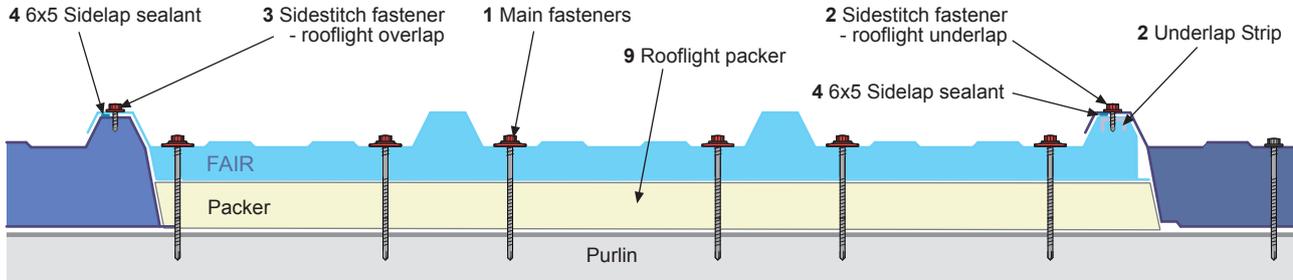




Daylight Systems

## INSTALLATION INSTRUCTIONS: Trilite TradeLight FAIR

Trilite 2.4 TradeLight - Trilite 3.0 TradeLight



### Cross Section: FAIR (Factory Assembled Insulating Rooflight)

- 1 MAIN FASTENERS**  
Stainless steel 5.5mm diameter fasteners fitted with a large diameter (29/32mm) washer with soft (40 shore hardness) bonded seal, typically poppy red colour. Do not over tighten fixings. Do not use light weight washers. There should be at least five main fixings per purlin, fitted in the trough, max 250mm apart. For profiles where pitch between corrugations is over 200mm, there should be two fixings per trough, with the fixings located either side of each main corrugation. \* see below for typical references
- 2 SIDE STITCH FASTENER - ROOFLIGHT UNDERLAP**  
UnderlapStrip™ (ULS) is bonded into the underlapping sidelap: a single continuous length profiled to match the corrugation to give added rigidity and ensure standard stitching screws can be reliably secured. This reduces the cost of fasteners and the number of fastener types on site, and improves ease of installation. Standard stainless steel stitching screws should then be fitted at 300mm to 400mm centres, typically poppy red colour. (Note: stitching screws should be evenly spaced about any FAIR endlap and not fixed through the joint). \* see below for typical references
- 3 SIDE STITCH FASTENER - ROOFLIGHT OVERLAP**  
Side stitch at 300mm to 400mm centres using standard stainless steel stitching screws, typically poppy red colour. (Note: stitching screws should be evenly spaced about any FAIR endlap and not fixed through the joint). \* see below for typical references
- 4 SIDELAP SEALANT**  
Single strip of 6x5mm UV stable pale coloured cross linked butyl mastic (BMDS:GCA) - positioned on the crown of the sheet just outside the line of sidelap fasteners. At endlaps, the sidelap sealant must be positioned between every sheet (see page 3).
- 5 ENDLAP SEALANT**  
All endlaps should be sealed with 2 rows of 6x5mm section, UV stable, pale coloured cross linked butyl mastic (BMDS:GCA). These should be positioned above and below the line of fixing, no more than 25mm from the line of fasteners. If a seal is required at the tail of the lap, gun applied silicon (ISO11600-F-25LM) should be used.
- 6 FAIRs must be seated onto the purlin (or extension bracket) by a nominal 40mm: at least 30mm after allowing for on site tolerances. This ensures full support for the internal reinforcement and maintains non-fragile classification.**
- 7 It is possible for standard purlins to provide sufficient support to both FAIR and composite panel if lap position and steelwork are correctly aligned. However, steelwork tolerances can cause on-site variations from nominal position. Extension brackets will be necessary to provide correct support if the alignment of lap and purlin varies by more than 5mm.**
- 8 Brett Martin Daylight Systems FAIRs incorporate unique Hardpak rigid internal reinforcement at each purlin position; it is essential that these are located directly over the purlin (or on extension brackets) at the top and at each intermediate position, so that the main fastener locates with the purlin. Full details are given in TECHNICAL BULLETIN 139.**
- 9 ROOFLIGHT PACKER**  
The KS1000 ERW FAIR comes with Hardpak rigid foam packers which incorporate an adhesive strip enabling them to be stuck to the underside of the rooflight before installation. Once the rooflight is in position it is essential that the packers align directly over the purlins offering adequate support to the rooflights and ensuring that main fasteners pass through filler, packer and into the purlin. At all up slope and intermediate purlin positions a 50mm packer should be used and 25mm packer at all downslope ends. (see illustrations below)

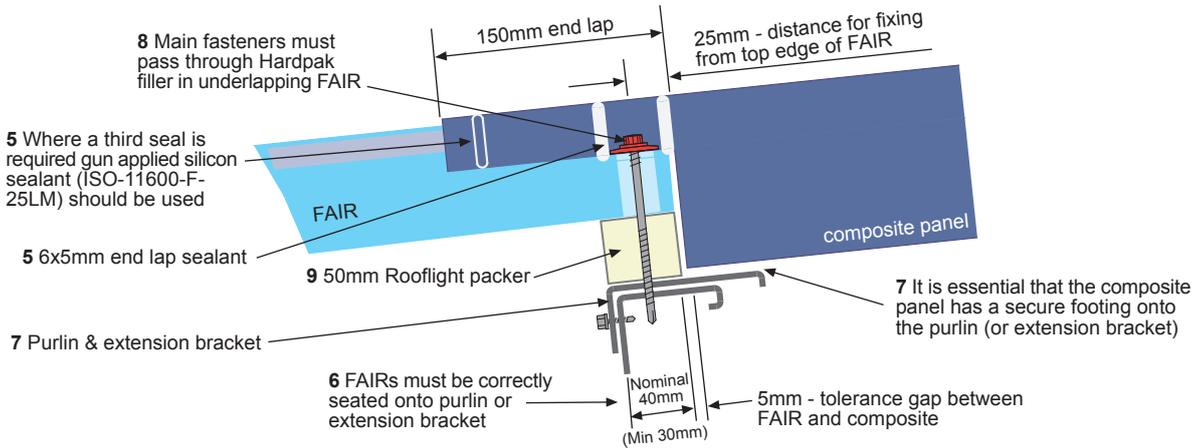
Standard Trilite TradeLight FAIRs are designed for use on a roof pitch of 6° or more with composite panel on all sides; for non-standard applications such as FAIRs installed in banks along the roof, consult BMDS Technical.

*	SFS	EJOT
Main Fasteners	SXCP5-A32-5.5 x length	CF29-JT3-D-6H-5.5 x length
Underlap Side Stitch (with ULS) and overlap	SXP3/12-A16-6x35	CF15-JT3-2H-5.5x30

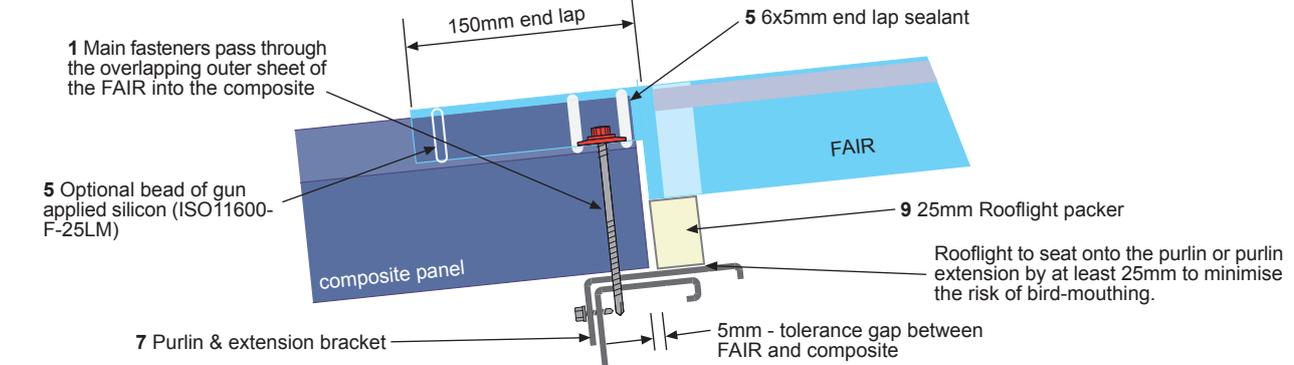


**Correct installation of rooflights is important to ensure they achieve the correct level of safety performance, and give long term weather tightness.**

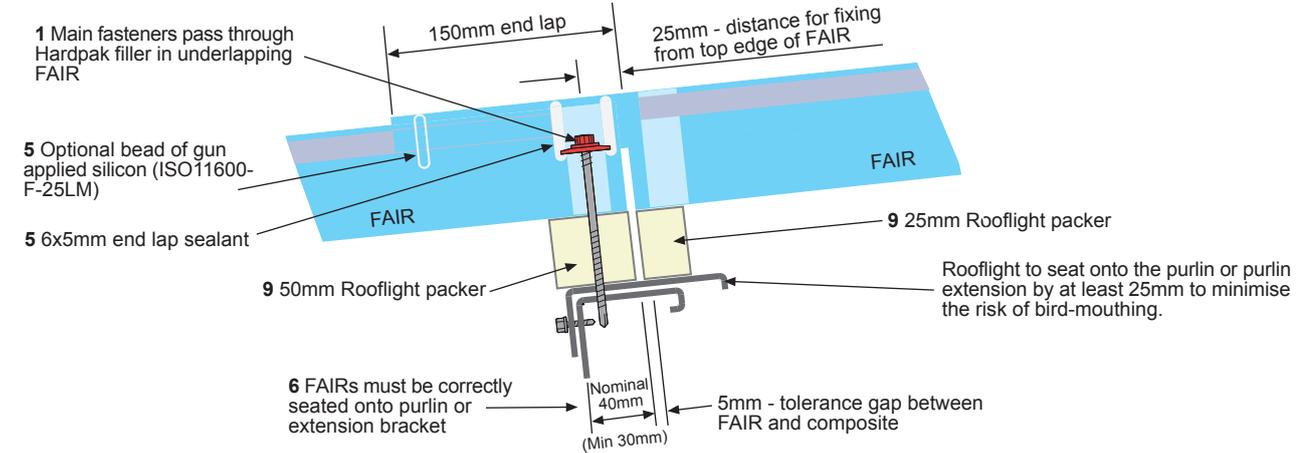
### ENDLAP - COMPOSITE OVER FAIR



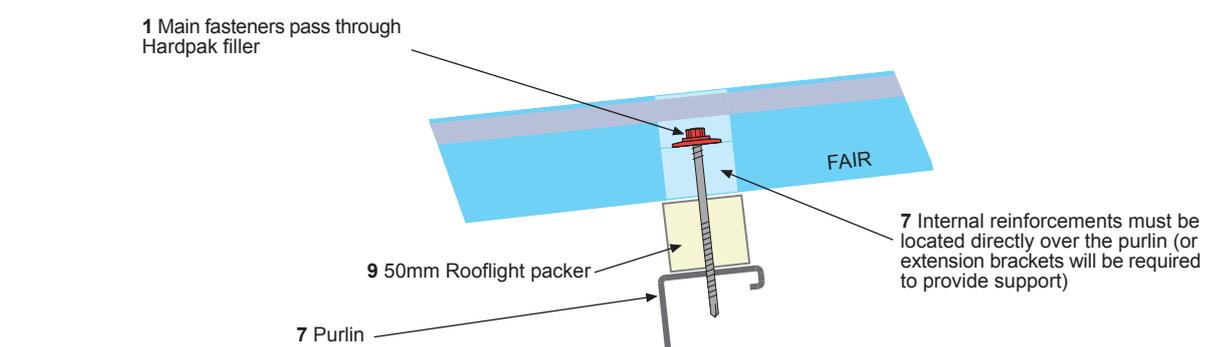
### ENDLAP - FAIR OVER COMPOSITE



### ENDLAP - FAIR OVER FAIR



### MID SPAN ARRANGEMENT





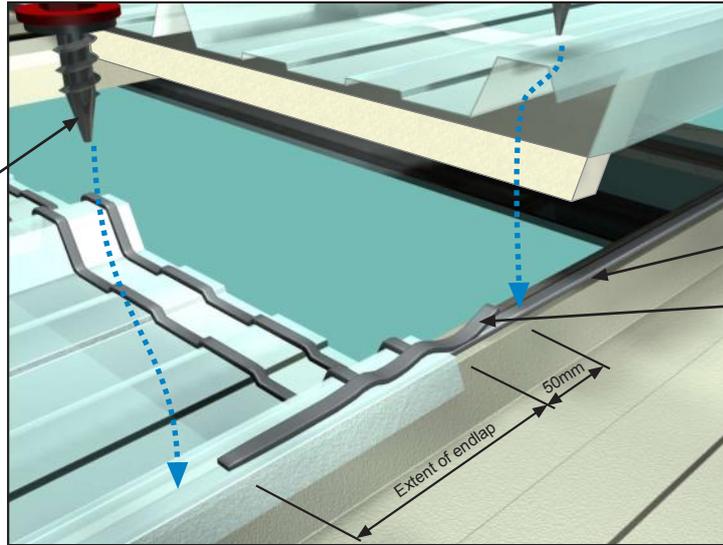
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## SIDELAP SEALING AT END LAPS

At all 3 and 4 way joints, sealant is required between all lapping components to ensure a weathertight seal. All roofing panels, including standard weight FAIRs, require an extra sealant bead in the two positions shown below. These details should be used at all endlaps, including FAIR to composite; FAIR to FAIR and composite to FAIR.

## SIDELAP SEALING AT OVERLAP SIDE

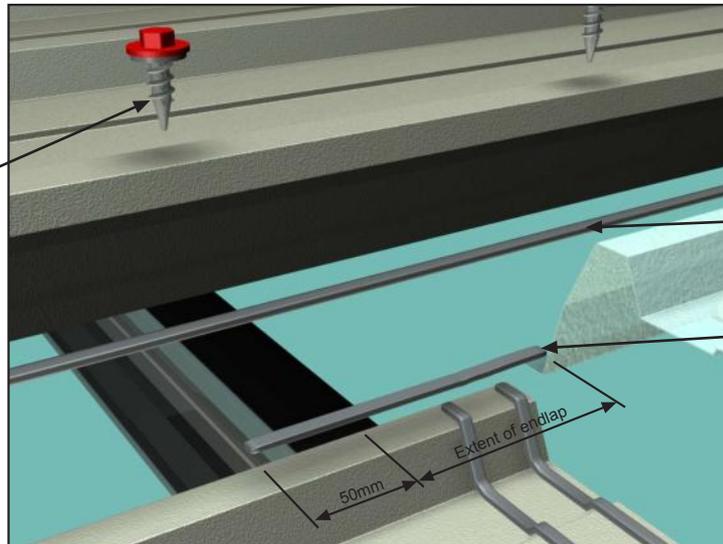
2/3 Note: when stitching the side lap it is important to have the stitching screws evenly spaced about any FAIR endlap (min 150mm from centre of lap) and not fixed through the joint.



- 4 Continuous strip of side lap sealant (6x5mm mastic)
- 4 Additional sidelap sealant for length of lap and extending 50mm upslope of endlap.

## SIDELAP SEALING AT UNDERLAP SIDE

2/3 Note: when stitching the side lap it is important to have the stitching screws evenly spaced about any FAIR endlap (min 150mm from centre of lap) and not fixed through the joint.



- 4 Continuous strip of side lap sealant (6x5mm mastic)
- 4 Additional sidelap sealant for length of lap and extending 50mm downslope of endlap.

**CORRECT HANDLING OF FAIRS IS CRITICAL  
FULL GUIDANCE IS GIVEN IN TECHNICAL BULLETIN 154  
ALL RECOMMENDATIONS MUST BE FOLLOWED IN FULL**



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