

Insulated Panels

UK and Ireland

Technical Update: TU 031

QuadCore® KS1000RW Roof Panel & Day Lite Trapezoidal Rooflight 75mm Endlap

Tech-eXchange



KINGSPAN QUADCORE® KS1000RW ROOF PANEL & DAY LITE TRAPEZOIDAL ROOFLIGHT 75MM ENDLAP

DATE: NOVEMBER 2022

The purpose of this Technical Bulletin is to make the reader aware of the Quadcore® KS1000RW roof panel & Day Lite Trapezoidal Rooflight 75mm Endlap detail.

All endlap details are subjected to water permeability tests which measures the resistance to driving rain under pulsating air pressure, per EN12865. The test outcome determines if the end lap can be classified as Class A (demanding applications), Class B (normal conditions) or Class C (low requirement applications).

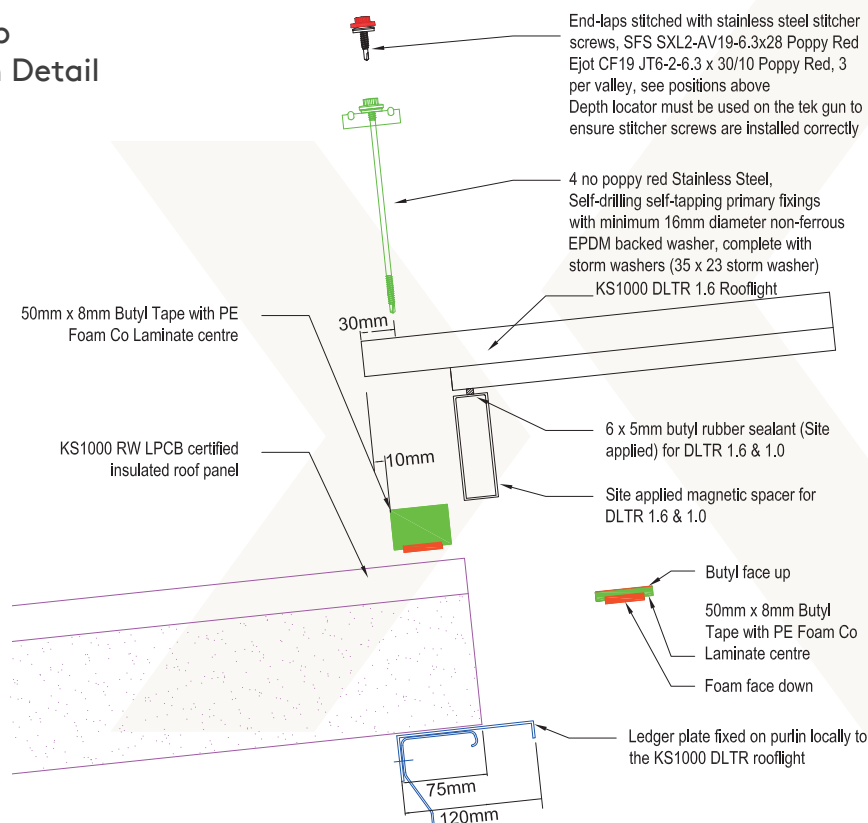
In 2007 third party water permeability tests achieved 900Pa performance with standard 150mm & 3 runs of 5mm x 6mm butyl sealant. This meets Class B to EN14509:2013, Normal Applications.

Our standard 150mm roof end-lap has been successfully tried, tested and used for many years. However, we recognised that there was opportunity to improve on the detail.

In 2017, following extensive work with our customers, Kingspan launched a 75mm endlap detail for the Quadcore® KS1000RW Roof Panel. This was followed shortly afterwards by the 75mm endlap detail for the Day Light Trapezoidal Rooflight.

The Quadcore® KS1000RW Roof Panel and Day Light Trapezoidal Rooflight were subjected to third party water permeability tests with a 75mm endlap and achieved 1350Pa performance. This meets Class A to EN14509:2013 (demanding applications).

75mm Endlap Construction Detail



KINGSPAN QUADCORE® KS1000RW ROOF PANEL & DAY LITE TRAPEZOIDAL ROOFLIGHT 75MM ENDLAP

75mm Endlap Summary

- Faster to install with only 1 run of seals required at 75mm endlaps compared to 3 runs on 150mm end lap detail.
- Panel overall length is 75mm shorter.
- Co-laminate end-lap seal has been developed and can be supplied direct by Kingspan.
- Compatible with FAWS panel side lap (note the FAWS sidelap seal will terminate at the foam core and will not extend to the endlap).
- Red 50x8 co-laminate seal developed for the rooflight and is supplied direct by Kingspan.
- Class A water permeability to EN14509:2013 on 75mm endlap.
- "To make allowance for tolerance, with both the alignment of the cold rolled purlins and panel lengths, we would advise that a wide flange purlin is used at panel to panel end laps please refer to TU032.

For guidance on the sealant arrangement at end laps for roof and wall panel options, please contact the Kingspan Tech-eXchange team. Note also that our Field Service Engineering team can provide installation training and onsite support where required.

Should you have any queries on the above or require further information, please do not hesitate to contact the undersigned.

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