

Insulated Panels

UK and Ireland

Technical Update: TU 030

Day Lite Trapezoidal Rooflight

Tech-eXchange


Kingspan®

DAY LITE TRAPEZOIDAL ROOFLIGHT

DATE: NOVEMBER 2022

The purpose of this Technical update is to make the reader aware of the recommended changes to detailing for the Day Lite Trapezoidal Rooflight product range and installation requirements.

Maximum Lengths

Day Lite Trapezoidal Rooflight 1.6 & 1.0

Lengths of up to 8m are available subject to site specific purlin spans and loads.

Therefore on a roof with purlins at 1.8m centres the rooflight should be 7275mm in length (4 x 1800mm plus the 75mm endlap).

Day Lite Trapezoidal Rooflight 1.3+ & 0.8+

Lengths of up to 6m are available subject to project specific purlin spans and loads.

Therefore on a roof with purlins at 1.8m centres the rooflight should be 5475mm in length (3 x 1800mm plus the 75mm endlap).

Recommended Rooflight Layouts

Please note that we make the following recommendations which should be considered when designing the roof layout.

- No rooflight to rooflight end laps.
- End laps incorporating rooflights must not line up with adjacent panel to panel end laps, thus avoiding a 4 way lap situation, therefore reducing material build up at end lap locations.
- Rooflights should not be installed side by side.

Where the rooflight panel exceeds the maximum panel length we suggest that a section of RW panel is introduced at mid span to prevent rooflight to rooflight end laps. (see attached roof layout).

End laps

- Kingspan introduced the 75mm end lap in 2017, which is now the default end lap option.
- The end lap seal is a unique red 50 by 8 mm co-laminate seal, which is supplied by Kingspan only.

Following further development work, we have made the following enhancements to the Day Lite Trapezoidal Rooflight.

- The underlap crown of the rooflight at the bottom edge has been notched to reduce material build up.
- The factory applied foam tape to the sides of the rooflight are being extended so that when installed they are connected to the site applied external side lap seals.

FAIR's

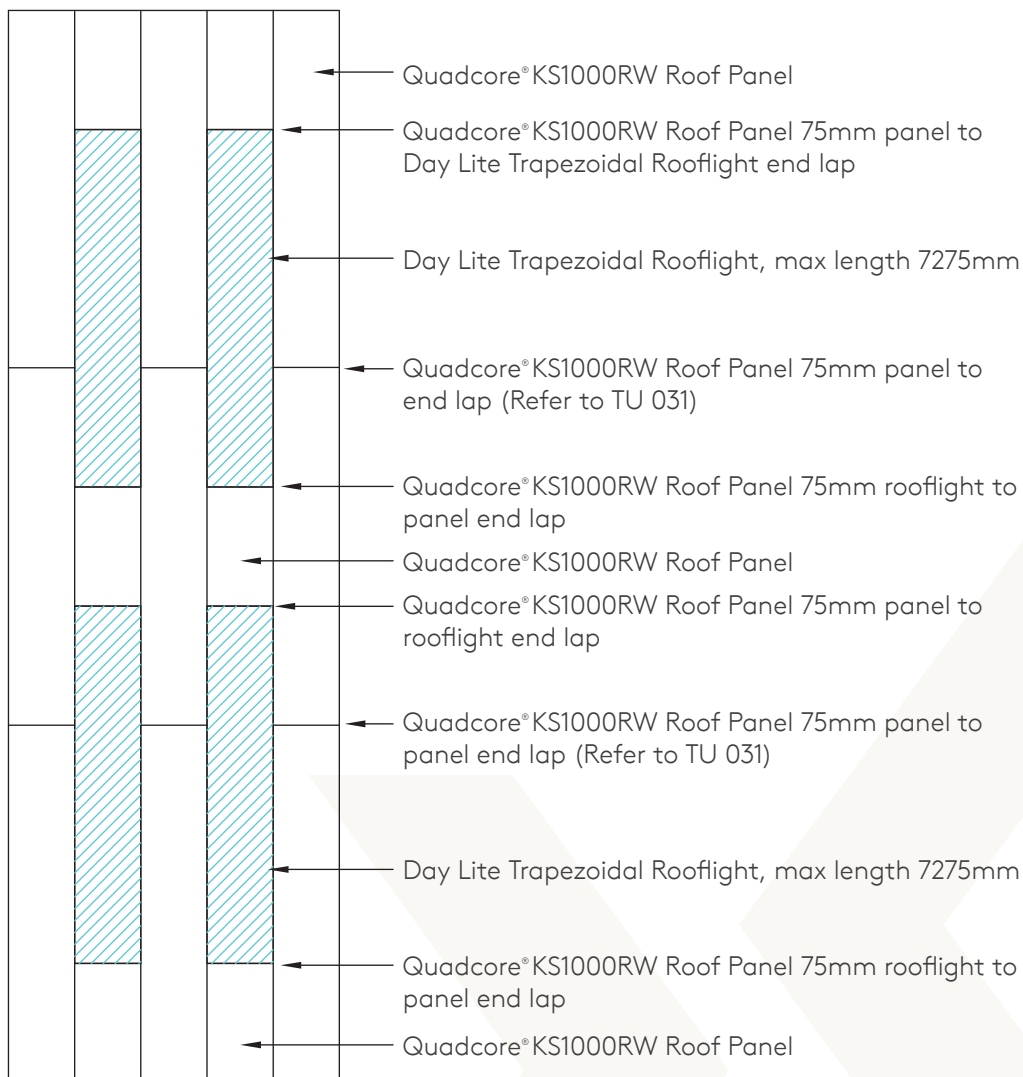
Where in plane rooflights are incorporated with composite panels these units are typically formed as a bonded box. They should not be considered as a hermetically sealed unit.

In the case of our DLTR polycarbonate product it is an extruded section and is fitted with breathable tapes at the ends of the product to allow through ventilation. Following completion of a new build project a reasonable time will need to be allowed for wet trades to dry out. Relatively small build up's of moisture are likely to develop during the winter months. Overall they should be relatively small and should not be considered detrimental to the long term performance of the product.

We confirm that rooflights of this type should typically only be used in C1 and C2 internal environments (i.e. not high humidity environments e.g. swimming pools etc.)

DAY LITE TRAPEZOIDAL ROOFLIGHT

Recommended Roof Layout



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