

Insulated Panels
Ireland

Technical Update: EU126

QuadCore® KS1000RW FM4471

Approval 40-167mm

Tech-eXchange


Kingspan®

QUADCORE® KS1000RW ROOF PANEL FM4471 APPROVAL 40-167mm

DATE: APRIL 2025

The purpose of this update is to ensure that the reader is aware of recent additions to the Kingspan QuadCore® KS1000RW and QuadCore® KS1000RW LEC Roof Panel FM4471 approved product ranges. The FM 4471 test standard looks at fire, wind, foot traffic and hail damage resistance of Class 1 Panel Roofs. This includes all the necessary components for the complete panel roof assembly. Tests include examining the potential for fire spread on the interior (FM 4880) and exterior (ASTM E108) of the roof panel, and its ability to resist simulated wind uplift, and maintain adequate strength and durability.

FM assembly number: 565024.



Roof Purlin:

- Minimum 1.5mm thickness.
- Minimum 450 MPa yield strength.
- Maximum spacings 1.8m.

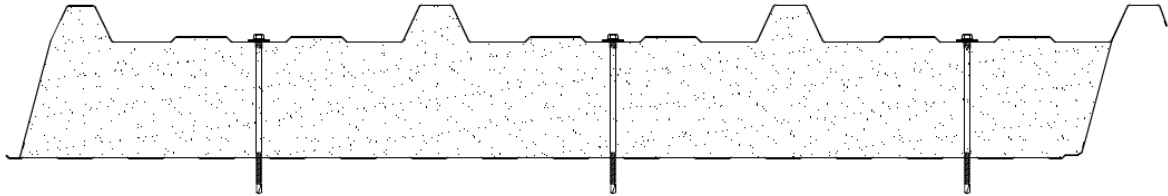
Panel Securement:

- Minimum of 3 fixings at panel ends and end laps and minimum 2 fixing at intermediate supports*.
- Overlap stitched at maximum 500mm centres.

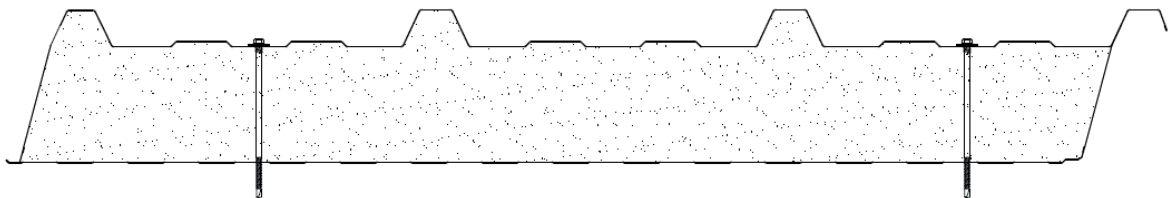
New fixing pattern (RoofNov number 565024)

3 fixings at panel ends and end laps and 2 fixings at intermediate supports.

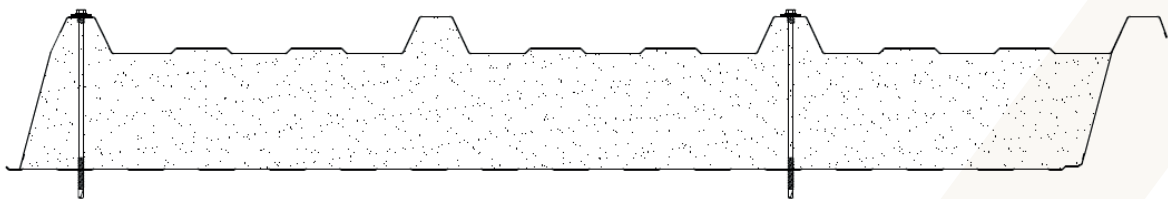
Fixing pattern at Ridge, Eaves & End Lap locations



Fixing pattern at Intermediate purlin locations (Valley fix)



Fixing pattern at Intermediate purlin locations (Crown fix)



Please note the above fixing quantities are minimum requirements, and the actual number of fixings required at each support would need to be calculated based on project specific information.

Internal Fire: Class 1

External fire: Class A at maximum 5 in 12 slope (22.62°).

Hail Class: Severe Hail.

This joins our QuadCore® KS1000RW Wall FM Approvals in the same thickness range of 40mm to 167mm.

For further guidance on the FM approvals for roof and walls panel options, please contact the Tech eXchange team..

* Please note the above fixing quantities are minimum requirements, and the actual number of fixings required at each support would need to be calculated based on project specific information. Fixings to be in line with FM approval report

Regards,

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