

Kingspan Energy

United Kingdom & Ireland

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Best Practice Guidance for Solar PV



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Installation of Solar PV Panels on a Kingspan Roof Panel System

The below guidelines is to help illustrate the best practice installation options when Kingspan Energy are not the PV contractor for your installation. There are numerous third party mounting solutions and Kingspan will not approve any given system. It is therefore the responsibility of the appointed solar PV contractor to propose the most suitable option for the respective project. Kingspan Energy or Kingspan Insulated Panels' Technical departments will not be able to comment on the suitability of any third party mounting solution.

Design Responsibility

It is the responsibility of the appointed solar contractor to ensure all roof structures, including steel works, can be accommodated for any additional loadings associated with the PV system. Should you have a query on the loading tables of a respective Kingspan panel product please contact the Kingspan technical team for information – technical@kingspanpanels.com

Side/End Laps and Roof lights

Where a building has Kingspan roof panel installed, careful consideration should be given with reference to the placement of a solar PV system on the respective roof. Kingspan would recommend not to fix PV to the crown which has a side lap on it. Placement and positioning of the PV system should also take into account the location of end laps for future O&M. For Roof lights Kingspan would recommend a clearance of approximately 500mm is maintained around the perimeter of each roof light to allow for safe maintenance. Careful consideration should be taken to ensure an appropriate means of seal is in place to both retain the weather tightness ability of the panel and to avoid adverse reactions between the mounting system and the roof sheet. The mounting system should be made from a suitable material to resist corrosion.

KS1000RW Profile

For a Kingspan KS1000RW roof profile – Kingspan would recommend that fixings would be used on the side of the crowns. EPDM seal/washer shall be placed under each bracket and the bracket fixed to the roof sheet using a stainless steel self-tapping/drilling screw.



KS1000LP Profile

For a Kingspan LP profile Kingspan would recommend that the PV mounting system would be attached below the cover cap of the crown. Careful consideration must be given to placement of the EPDM seals/washer and brackets below the cover cap.

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KS1000TD Profile

Best Practise is to use a ballast mounting system as the example shown below. It is up to the PV designer/contractor to make sure the material of the mounting system to not affect the roof membrane. All wind load calculations and structural verification should be done by the PV contractor as part of their design process. Should any penetrations/openings be required on the roof, the PV contractor shall consult with the respective client/roofing contractor to ensure weather tightness is maintained.



KS1000Zip Profile

For a Kingzip profile Kingspan recommend that an appropriate type mounting system be used on the seam ball brackets. Please adhere to the manufacturer on how to attach correctly to the seam.



Disclaimer

Third party PV mounting products will not automatically invalidate the warranty on our roofing panels but may do so if the design and/or installation are faulty and/or inappropriate for the roof in question. It is therefore the responsibility of the client and/or the PV contractor to satisfy themselves that the design and installation is appropriate and fit for purpose. In order to protect Kingspan against future claims arising from third party designs and or installations onto Kingspan roof panels, Kingspan shall not be held liable under our warranty for issues with our roof panel that have arisen as a result of third party installations.

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For the product offering in other markets
Please contact your local sales representative
or visit www.kingspanenergy.com

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