Insulated Panels
UK & Ireland

Protected by Kingspan QuadCore® Assured

QuadCore KS1000SRW Roof Panel
Product Datasheet



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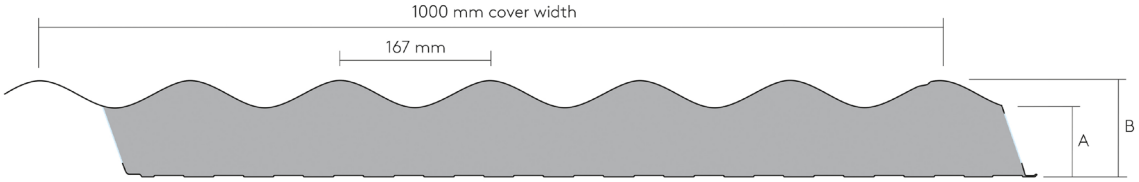
Kingspan®



Application

QuadCore® KS1000SRW Roof Panels are through-fix, sinusoidal profiled, insulated roof panels which can be used for building applications with roof pitches of 4° or more after deflection.

Panel Cross Section



Dimensions, Weight and Thermal Performance

Core Thickness [mm]	40	60	80
Overall Thickness [mm]	70	90	110
Weight [kg/m²]	9.1	9.9	10.7
U-value [W/m²·K]	0.37	0.27	0.21

The QuadCore® insulation used in QuadCore® KS1000SRW Roof Panels has a Thermal Conductivity (λ) of 0.019 W/m·K.
The Thermal Transmittance (U-Value) for the panels has been calculated using the method outlined in EN 14509, which takes in to account the panel longitudinal side joints.

Certification and Testing

Reaction to Fire

QuadCore® KS1000SRW Roof Panels are classified B-s1, d0, when tested on the internal face of the product, according to the European Reaction to Fire classification system (Euroclasses) BS EN 13501-1: 2018 under the certified name KS1000SRW when using the following internal liners:

- CLEANsafe 15, CLEANsafe 120 and AQUAsafe 55.

Please contact Kingspan Tech-eXchange for information relating to the external face.

Roof Applications

QuadCore® KS1000SRW Roof Panels are tested to:

- Broof(t4) to BS EN 13501-5: 2016 under the certified name KS1000SRW for panel thicknesses 40 - 80 mm and roof pitch of 0° - 10°.
- Broof(t4) to BS EN 13501-5: 2016 under the certified name KS1000SRW for panel thicknesses 40 - 80 mm and roof pitch of >10°.

Available Lengths

Shorter lengths	500-1799 mm
Standard lengths	1800-14500 mm
Longer lengths (non-standard)	14501-18300 mm

Note: Additional costs and transport restrictions may apply for non-standard lengths. All lengths may change for export (outside of the UK and Ireland)

Product Tolerances

Dimension	Tolerance [EN 14509]
Length tolerance, L≤3m, -	5 mm
Length tolerance, L≤3m, +	5 mm
Length tolerance, L>3m, -	10 mm
Length tolerance, L>3m, +	10 mm
Cover width tolerance, -	2 mm
Cover width tolerance, +	2 mm

Dimension	Tolerance [EN 14509]
Thickness tolerance, D≤100mm, -	2 mm
Thickness tolerance, D≤100mm, +	2 mm
Thickness tolerance, D>100mm, -	2 %
Thickness tolerance, D>100mm, +	2 %
End squareness	0.006 x w
Deviation from straightness (on length)	1mm/m, maximum 5 mm/m
Deviation from flatness, L = 200mm	0.6 mm
Deviation from flatness, L = 400mm	1.0 mm
Deviation from flatness, L > 700mm	1.5 mm

Materials

Insulation Core

Insulation Core QuadCore® KS1000SRW Roof Panels are manufactured with an HCFC, CFC and HFC free QuadCore® insulation core

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Substrate

Metallic protected steel to BS EN 10346: 2015.

Please contact Kingspan Tech-eXchange for information on other substrates.

Coatings - External Weather Sheet

• Kingspan XL Forté: Consists of a multi-layer organic coating, embossed with a traditional leather-grain finish.

• Kingspan Spectrum: Consists of a coated semi-gloss finish with slight granular effect.

For Reaction to Fire performance of external weather sheets please contact Kingspan Tech-eXchange

Coatings - Internal Liner Sheet

• Kingspan CLEANsafe 15: The coating has been developed for use as the internal lining of insulated panels. Standard colour is “bright white” with an easily cleaned surface.

• Kingspan CLEANsafe 120: The coating has been developed for use as the internal lining of insulated panels where a high level of cleanliness and hygiene is required, and the panels are to be cleaned down on a regular basis.

• Kingspan AQUAsafe 55: The coating has been developed for use as the internal lining of insulated panels to swimming pool internal environments.

Air Leakage

An air leakage rate as low as 3m³/h/m² @ 50 Pa can be achieved when using Kingspan insulated roof and wall panels. For information on detailing required to achieve lower air leakage rates please contact Kingspan Tech-eXchange.

Acoustic Performance

QuadCore® KS1000SRW Roof Panels have a single figure weighted sound reduction Rw = 24 dB. Results are based on panels of similar profile and core material

Environmental

Kingspan Insulated Panels produced in the UK and Ireland are certified to BES 6001 (Framework Standard for the Responsible

Sourcing of Construction Products) ‘Good’.

In addition, facilities located in Kingscourt, Holywell and Sherburn generate renewable energy onsite which contributes to that sites energy mix.

Recycled content calculations are available for all QuadCore® products via technical services. Kingspan insulated panels can directly contribute to BREEAM® / LEED® credits.

Handing

QuadCore® KS1000SRW Roof Panels can be manufactured in both left to right handed (LH) and right to left handed (RH)

Quality & Durability

QuadCore® KS1000SRW Roof Panels are manufactured from the highest quality materials, using state of the art production equipment to rigorous quality control standards, complying with BS EN ISO 9001 standard, ensuring long term reliability and service life. The panels are also being manufactured under Environmental Management System Certification BS EN ISO 14001, Energy Management System Certification BS EN ISO 50001 and Occupational Health and Safety Certification BS EN ISO 45001 and Compliance Management Systems BS EN ISO 37301.

QuadCore® KS1000SRW Roof Panels are CE marked to BS EN 14509: 2013.

Packing

QuadCore® KS1000SRW Roof Panels are stacked weather sheet to weather sheet (to minimise pack height). The top and sides are protected by either cardboard or polystyrene and spiral wrap stretch polyfilm. The number of panels in a pack will vary depending on thickness

Core Thickness [mm]	40	60	80
No. of Panels Per Pack (max)	19	15	11

Note: Applies to UK pack sizes. Please contact Kingspan Tech-eXchange for export information

Delivery

All deliveries (unless indicated otherwise) are by road transport to project site. Off-loading is the responsibility of the client.

Sea Freight

Fully timber crated packs are available on projects requiring delivery by sea freight shipping, at additional costs. Alternatively, steel containers can be used. Special loading charges apply.

Panel End Cut Back

To be installed as single length panels, ridge to eaves, no end laps permitted.

Cut back standard lengths	75 mm

Site Installation Procedure

Site assembly instructions are available from Kingspan Tech-eXchange

Warranty

QuadCore® Assured Panel Warranty

- 25 years thermal performance
- 25 years fire performance
- 25 years structural performance
- 25 years environmental performance
- Up to 40 years coating performance

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