

Insulated Roof & Wall Panels

Product Data Sheet



Sinusoidal Insulated Roof Panel
KS1000 SRW

KS1000 SRW Sinusoidal

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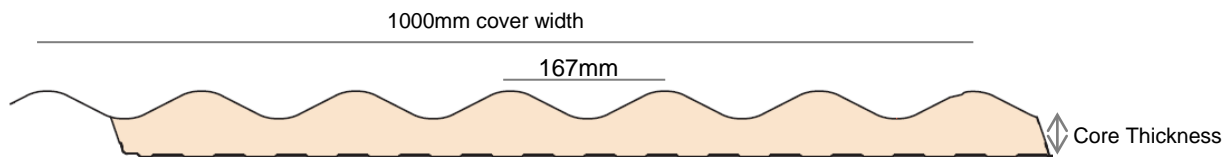
Applications

The KS1000 SRW is a through-fix sinusoidal profiled insulated roof panel which can be used for building applications with roof pitches of 4° or more after deflection.

Available Lengths

Standard Lengths	1.8 - 12m
Longer Lengths (non-standard)	12 – 17.8m

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



Dimensions, Weight & Thermal Performance

Core Thickness (mm)	40	60	80
Overall Thickness (mm)	70	90	110
U-value (W/m ² K)	0.46	0.32	0.25
Weight kg/m ² 0.5/0.4 steel	10.3	11.3	12.0

The KS1000 SRW insulated roof panels have a Thermal Transmittance (U value), calculated using the method required by the Building Regulations Part L2 (England & Wales) and Building Standards Section 6 (Scotland).

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Insulation Core

KS1000 SRW insulated roof panels are manufactured with a FIREsafe polyisocyanurate (PIR) core.

Fire

The external and internal faces of the panel to be Class 0 in accordance with the Building Regulations when tested to BS 476: Part 6: 2009 and Part 7: 1997. The panel is rated SAA when tested to BS 476: Part 3: 2004.

This FIREsafe system has passed all the requirements of LPS 1181: 2005: Part 1: Issue 1.1, ceiling lining tests by the Loss Prevention Certification Board (LPCB) certified to LPS 1181 Grade EXT – B.



Air Leakage

An air leakage rate of $3\text{m}^3/\text{hr}/\text{m}^2$ at 50Pa or less can be achieved when using Kingspan insulated roof and wall panels.

Acoustic

Sound Reduction Index (SRI)

Hz*	63	125	250	500	1K	2K	4K	8K
SRI (dB)	20	19	21	22	22	32	38	44

* Frequency

The KS1000 SRW insulated roof panel has a single figure weighted sound reduction $R_w = 25\text{dB}$.

Biological

Kingspan panels are normally immune to attack from mould, fungi, mildew and vermin. No urea formaldehyde is used in the construction, and the panels are not considered deleterious.

Materials

Substrate

- Kingspan XL Forté, Kingspan Spectrum, Kingspan AQUAsafe, and Kingspan CLEANsafe: Material S220GD+ZA hot-dip zinc/aluminium Galvanneal coated steel to BS EN 10346: 2009 Standard external sheet thickness 0.5mm, 0.63mm available on request with a standard internal sheet thickness 0.4mm.
- Bright White Polyester: Material Hot dip zinc coated to BS EN 10346: 2009, Standard internal steel thickness 0.4mm.

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.

Coatings - Internal Liner Sheet

- Bright White Polyester: 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 AQUAsafe: The coating has been developed for use as the internal lining of insulated panels to suit high humidity internal environments (class 5 as defined by the Building Regulations).
- Kingspan CLEANsafe: 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.

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Panel End Cut Back

Standard Cut Back Eaves	75mm
Standard Cut Back Endlap	150mm

Product Tolerance

Cut to Length	-0.05% +0.1%
Liner Sheet Length	-0.1% +0.1%
Cover Width	-0mm +3mm
Thickness	-2mm +2mm
End Square	-3mm +3mm

Handing

The KS1000 SR insulated roof panel can be manufactured in both left to right handed (LH) and right to left handed (RH).

Quality & Durability

KS1000 SRW insulated 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. Compliant to BS OHSAS 18001 Occupational Health and Safety.

Guarantee

Kingspan Total Panel Guarantee covering the structural and thermal performance for a period of up to 25 years and Kingspan Coating Guarantee for a period of up to 40 years (subject to project specific information).

Packing

KS1000 SRW insulated roof panels are stacked weather sheet to weather sheet (to minimise pack height). The top, bottom, sides and ends are protected with foam and timber packing and the entire pack is wrapped in plastic.

Core Thickness (mm)	40	60	80
No. of panels in Pack	10	8	8

Note: Applies to UK pack sizes. Please contact Kingspan Technical Services for export information.

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.

Delivery

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

Site Installation Procedure

Site assembly instructions are available from Kingspan envirocare Technical Services.

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