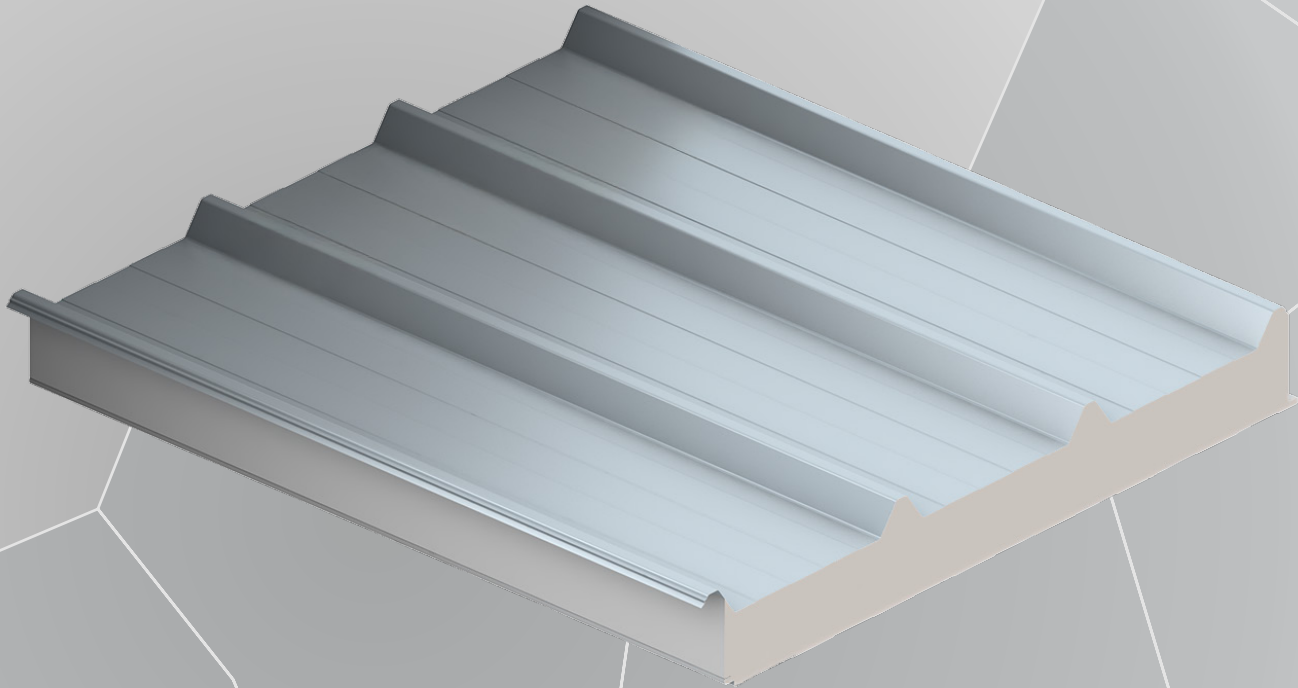


Insulated Panels
Central Asia and Türkiye

QuadCore™ KS100PRW Roof Panel

Product Data Sheet



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TECHNOLOGY

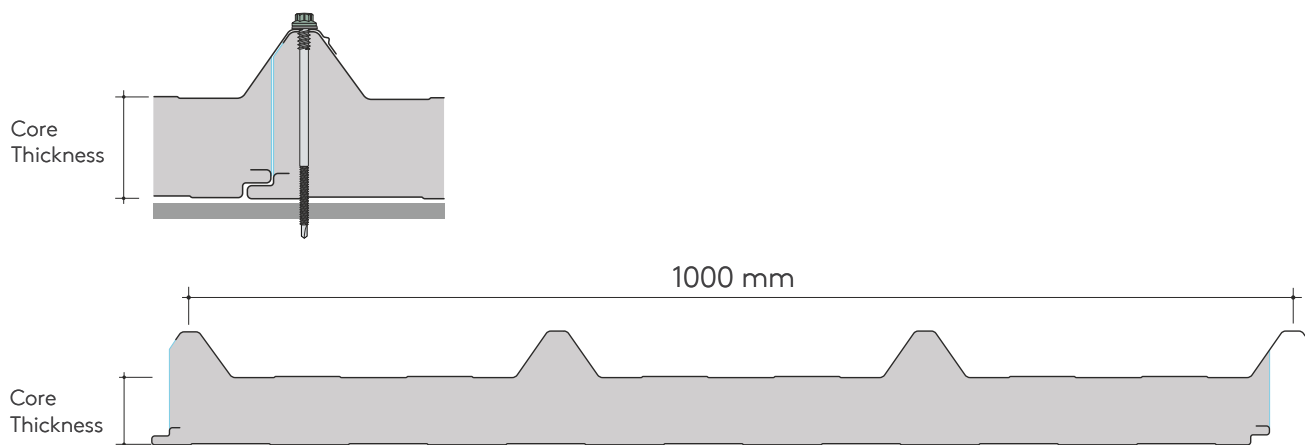


Application

The QuadCore™ KS100PRW Roof Panel with a through-fix joint is designed for pitched roofs with a slope of 7% (4.0°) or more, or a minimum of 10% (6°) where an overlap is required.

Each application should be verified against individual project requirements.

Panel Cross Section



Technical Parameters

Thermal Transmittance (U-Value), calculated by using Finite Element Analysis in accordance with EN 14509: 2013 taking into account the profile geometry of the panel and the thermal influence of the longitudinal joint.

Module width / Cover width [mm]	Core Thickness [mm]	Mass [kg/m²]	Thermal Transmittance (U-value) acc. EN 14509:2013 [W/m².K]	R [m²K/W] Thermal Resistance as per EN 14509:2013 with effect of joint [m².K/W]	Airborne Sound Insulation $R_w(C;C_{tr})$	Weighted Sound Absorption Coefficient $[\alpha_w]$	FM Approval
1,000/1,000	40	9.11	0.50	2.00	NPD	NPD	4880/4881/4882 / 4471
	50	9.53	0.40	2.50	NPD	NPD	4880/4881/4882 / 4471
	60	9.83	0.33	3.03	NPD	NPD	4880/4881/4882 / 4471
	80	10.63	0.25	4.00	NPD	NPD	4880/4881/4882 / 4471
	100	11.43	0.20	5.00	NPD	NPD	4880/4881/4882 / 4471
	120	12.23	0.17	5.88	NPD	NPD	4880/4881/4882 / 4471
	150	13.43	0.13	7.69	NPD	NPD	4880/4881/4882 / 4471

The technical data is valid for a face thickness of Ext / Int. 0.45 / 0.40 mm

Panels with galvanized steel or stainless steel facers have undergone extensive testing, and FM Approvals certification encompasses core thicknesses of 40 to 200 mm (valid for a minimum facer gauge of Ext / Int: 0.47 / 0.47 mm).

For the description and scope of these classes, see the note below:

FM 4880: Attaining a Class 1 fire rating for building panels or interior finish materials.

FM 4881: Certifying Class 1 exterior wall systems.

FM 4882: Confirming Class 1 interior wall panels suitable for environments sensitive to smoke.

FM 4471: Certification standard for Class 1 Panel Roofs (evaluating wind uplift resistance, structural integrity, and environmental performance such as hail and windload resistance), encompassing core thicknesses from 40 to 150 mm (valid for a minimum facer gauge of Ext/Int: 0.45 / 0.35 mm) and covering Class 1-60 and Class 1-120 wind uplift resistance ratings.

Fire Performance

QuadCore™ KS100PRW Roof Panel has been tested and approved to comply with EN 14509:2013.

The reaction-to-fire classification according to EN 13501-1:2018 is presented in the below data table.

Module width/Cover width [mm]	Core Thickness [mm]	Reaction to Fire	Fire Resistance - Roof
1,000/1,000	40	B-s2, d0	NPD
	50	B-s2, d0	NPD
	60	B-s2, d0	NPD
	80	B-s1, d0	NPD
	100	B-s1, d0	NPD
	120	B-s1, d0	NPD
	150	B-s1, d0	NPD

Classification reports available on request.

Dimensions

Length

Shorter lengths (non-standard) [mm]	500-2199
Standard lengths [mm]	2200-18000
Longer lengths (non-standard) [mm]	18001-20000

Additional costs and transport restrictions may apply for non-standard lengths.

Width

Standard cover width: 1,000 mm.

Standard module width: 1,000 mm.

Product Tolerances

All product tolerances are in compliance with EN 14509:2013.

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
Thickness tolerance	-	2 mm
Thickness tolerance	+	2 mm
Thickness tolerance	D>100mm, -	2 %
Thickness tolerance	D>100mm, +	2 %
Deviation from squareness		0.006 x w
Deviation from straightness (on length)		1mm/m, maximum 5 mm/m

Materials

Insulation Core

QuadCore™ Technology insulation core with a thermal conductivity (λ) of 0.020 W/m·K according to EN 14509:2013.

External facing

The standard thickness of the coil coated steel sheet is Trapezoidal: 0.45–0.70 mm.

Standard coating: Polyester and PVDF.

Internal facing

The standard thickness range of the coil coated steel sheet is

Box: 0.40–0.70 mm.

Standard coating: Polyester.

Seals

Site applied joint sealants are the responsibility of the installer.

Profiles

Available profiles are shown in the Profiles section.

Colours

External colours are available in a wide variety of metallic, matte, and solid finishes. For guidance on selecting the most suitable colours for your project, please contact Kingspan Technical Support.

Mechanical Resistance

For latest load / span tables, contact Kingspan Technical Support.

Environmental Performance

We ensure that our products are free from CFC, HCFC, HFC, and Halogenated Fire Retardants.

Kingspan Insulated Panels are manufactured in facilities certified to the ISO 14001 Environmental management system (EMS) standard.

Production Standard

Kingspan Insulated Panels complies with the requirements of EN 14509:2013 Self-supporting double skin metal faced insulating panels.

Quality

Kingspan insulated panels are manufactured in compliance with the ISO 9001:2015 quality management system standard. The manufacturing process is also certified to ISO 14001:2015 for environmental management and ISO 45001:2018 for occupational health and safety management.

Packing

Standard Packing - Road Transportation

QuadCore™ KS100PRW Roof Panels are stacked with the

external surface facing inward. The top, bottom, side, and end faces of each bundle are protected with cardboard or polystyrene protectors, and the entire pallet is wrapped with protective stretch film. The number of panels in a pack depends on panel thickness and length. Quantities are reduced for exceptionally long panels.

Protective film on the panels should be removed within a maximum of two months of the production date.

Core Thickness [mm]	40	50	60	80	100	120	150
Number of Panels	11	9	8	10	8	7	6

Delivery

All deliveries, unless indicated otherwise, are by road transport to a project site. Off-loading is the responsibility of the recipient.

Sea Freight

Full timber crated packs are available at additional cost for projects requiring sea freight delivery. Alternatively, steel

containers can be used. Special loading charges apply.

Site Storage & Installation

The responsibility for unloading the goods lies with the recipient. The goods must not be dropped or thrown from the vehicle and should not be stacked on uneven surfaces.

During unloading, care must be taken to protect the goods from damage and to ensure the safety of personnel on site.

Manual unloading is not recommended. Appropriate lifting equipment, such as a forklift truck or crane fitted with a spreader beam, should be used to prevent excessive pressure on the product, which may result in delamination, joint damage, or surface irregularities.

Please contact Kingspan to obtain guidelines for the safe transportation, unloading and on-site handling of products supplied by Kingspan.

Warranty

Kingspan warranties are assessed individually for each project, depending on the environmental conditions and the selected surface treatment.

Profiles

Profile	Internal
B - Box	

Contact Details

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For the most up to date and comprehensive product details, always refer to the latest version of this datasheet by scanning the QR code above. We reserve the right to update this datasheet, and any other informational materials, at our discretion and without notice.

For the latest information, please visit: www.kingspan.com.tr

