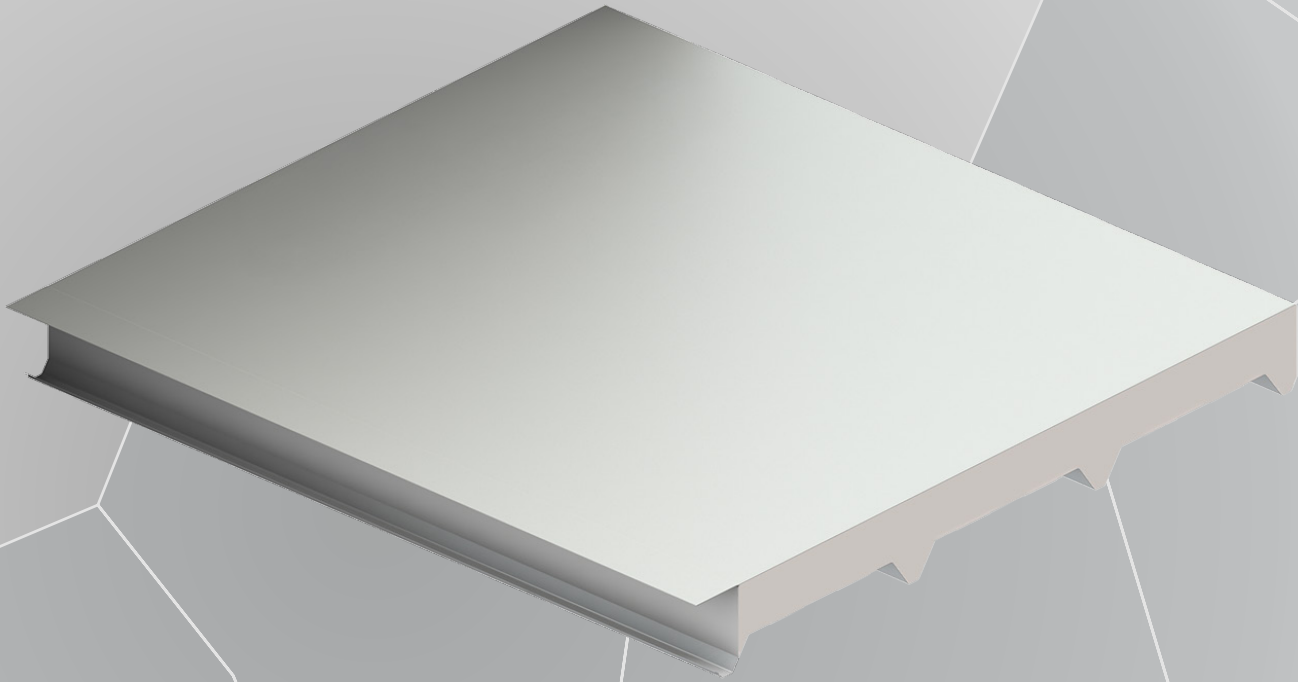


Insulated Panels
Central Asia and Türkiye

QuadCore™ KS100ERO T-DEK Flat Roof Panel Product Data Sheet



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QuadCore
TECHNOLOGY

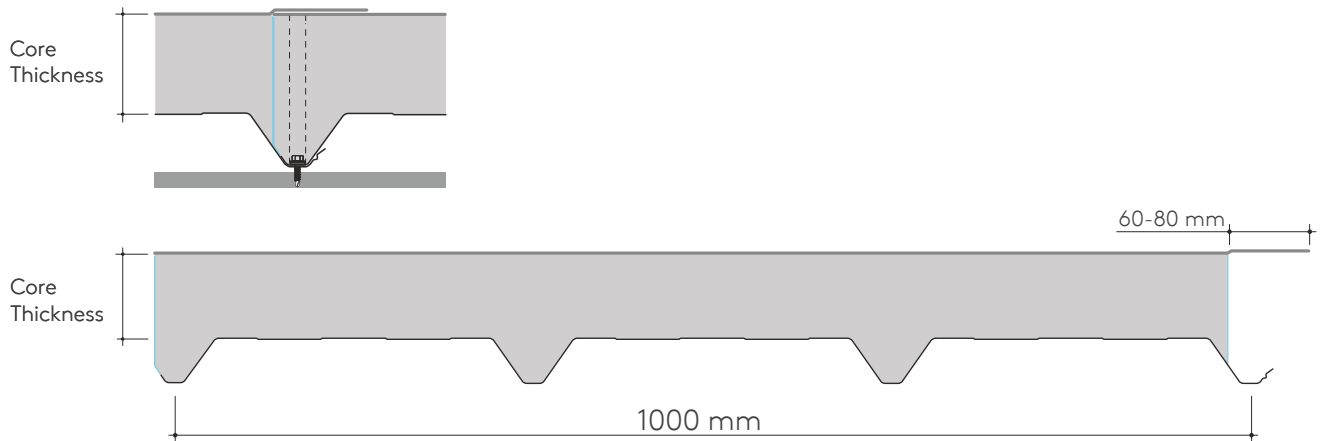

Kingspan

Application

The QuadCore™ KS100ERO T-DEK Flat Roof Panel with a secret-fix joint is designed for flat roofs with a slope of 1% (0.5°) or more, as well as curved roofs with a minimum longitudinal radius of 50 m and transversal radius of 20 m. The factory-made panel delivers high energy efficiency and long-term performance, making it a reliable solution for various building designs with lower roof slopes.

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 ($C; C_w$)	Weighted Sound Absorption Coefficient [α_w]
1,000/1,000	50	9.32	0.35	2.86	NPD	NPD
	60	9.74	0.29	3.44	NPD	NPD
	80	10.42	0.22	4.55	NPD	NPD
	100	11.22	0.18	5.56	NPD	NPD

The technical data is valid for a face thickness of Ext / Int. 1.50 (TPO) / 0.60 mm.

Fire Performance

Product technical specifications relating to fire classification are available from Kingspan Technical Support.

Module width / Cover width [mm]	Core Thickness [mm]	Reaction to Fire	Fire Resistance - Roof
1,000/1,000	50	Not applicable	NPD
	60	Not applicable	NPD
	80	Not applicable	NPD
	100	Not applicable	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
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Please contact Kingspan for non-standard lengths and transport restrictions.

Standard panel lengths: 2200-18000 mm .

Width

Standard panel cover width: 1,000 mm .

Standard module width: 1,000 mm .

Product Tolerances

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

Single-ply waterproof membrane made from softened PVC of 1.2 mm or TPO of 1.5 mm thickness.

Internal facing

The standard thicknesses of the coil coated metal sheet are 0.55 - 0.70 mm.

On request also other steel sheet thicknesses are available.

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.

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

The QuadCore™ KS100ERO T-DEK Flat Roof Panel 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]	50	60	80	100
Number of Panels	9	8	10	10

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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The information provided in this datasheet is accurate as of its date of publication and represents our commitment to quality and transparency. However, Kingspan Insulated Panels reserve the right to modify product specifications without prior notice to reflect advancements or improvements.

For applications not explicitly covered within this datasheet, consultation with our Technical Department is strongly advised to ensure the product meets your specific requirements.

Users are responsible for verifying the product's suitability for their particular needs and for ensuring compliance with all applicable laws and regulations.

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

