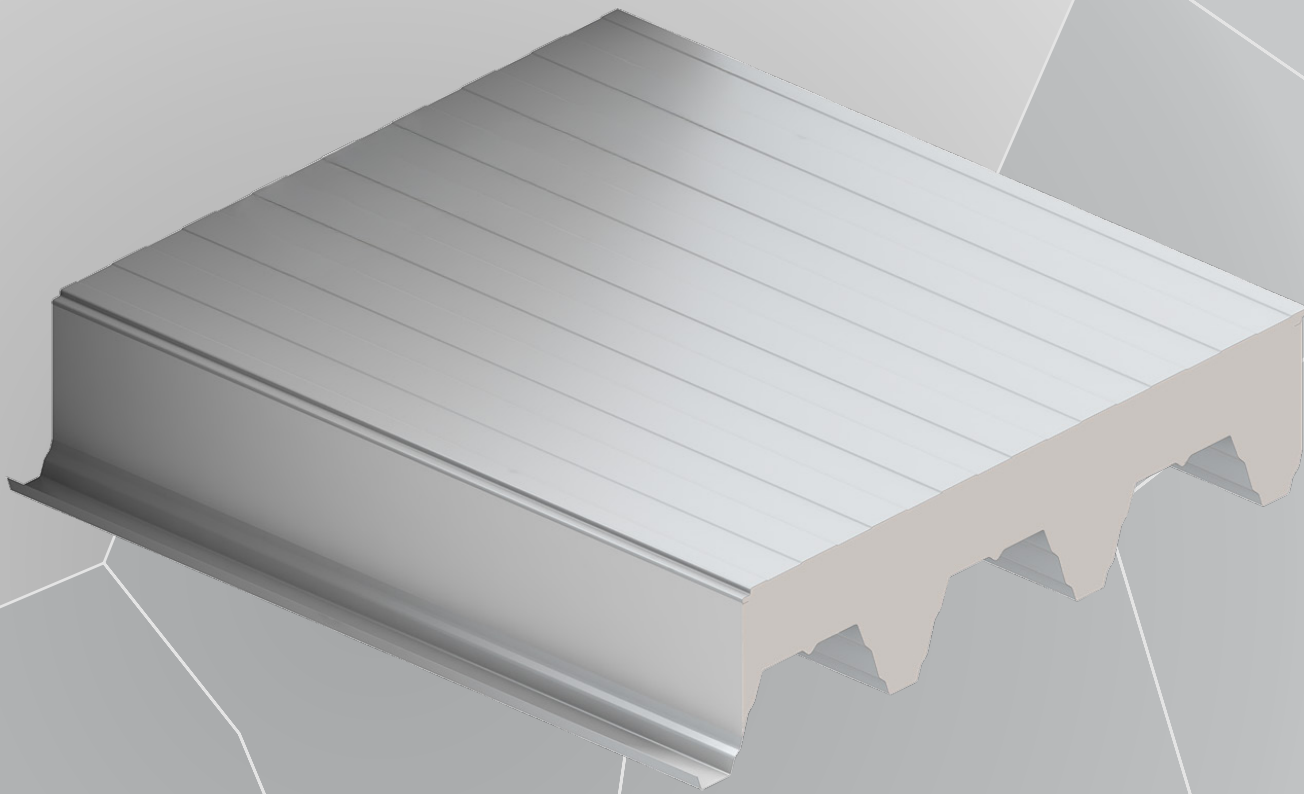


Insulated Panels
Central Asia and Türkiye

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



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TECHNOLOGY

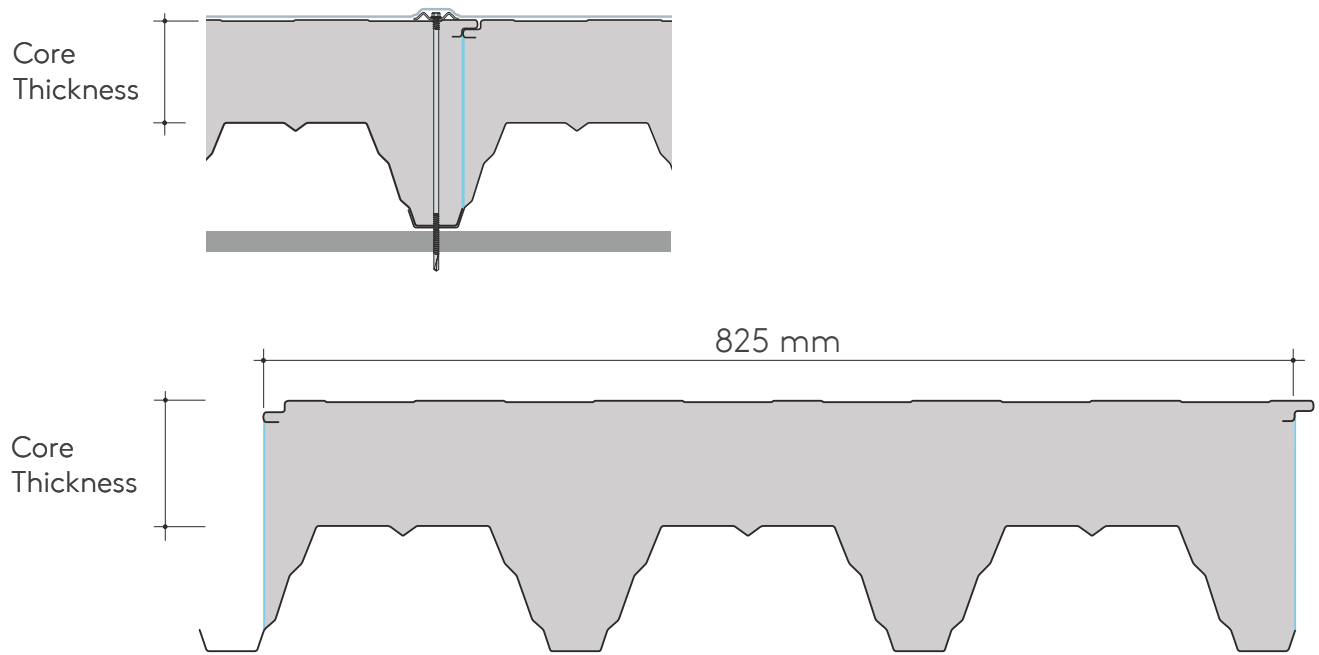


Application

The QuadCore™ KS100ERO T-DEK Longspan Flat Roof Panel with a through-fix joint is designed for flat roofs with a slope of 1% (0.5°) or more, featuring an improved load-bearing capacity that allows for longer span distances. The factory-made hybrid system, finished with an in-situ external membrane, delivers high structural performance, reliable watertightness, and efficient insulation at a 100 mm core thickness.

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	Thermal Transmittance (U-value) acc. EN ISO	R [m²K/W] Thermal Resistance as per EN	R [m²K/W] Thermal Resistance as per EN ISO	Airborne Sound Insulation R _w (C;C _{tr})	Weighted Sound Absorption Coefficient [α _w]	GWP for modules A1-A3	GWP for modules A-C	FM Approval
825 / 825	100	19.85	0.17		5.88		NPD	NPD			

The technical data is valid for a face thickness of Ext / Int. 0.90 / 0.70 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
825 / 825	100	Not applicable	NPD

Classification reports available on request.

Dimensions

Length

Please contact Kingspan for non-standard lengths and transport restrictions.

Standard panel lengths: 2200-18000 mm .

Width

Standard panel cover width: 825 mm .

Standard module width: 825 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

Box: 0.90 mm.

Standard coating: Polyester and PVDF.

On request also other metal sheet thicknesses are available.

Internal facing

The standard thickness range of the coil coated steel sheet is

Trapezoidal: 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

The QuadCore™ KS100ERO T-DEK Longspan 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]	100
Number of Panels	8

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

