

Insulated Panels
Bulgaria

KS RW Roof Panel

Product Data Sheet



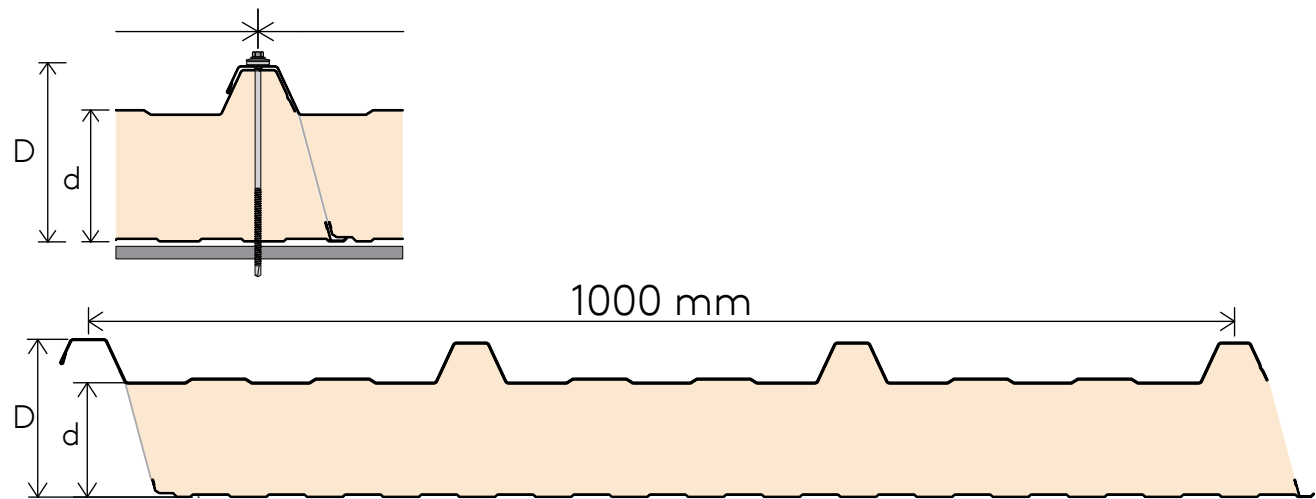
Application

KS RW Roof Panel is a sandwich panel system with a trapezoidal pattern, which is attached to the support elements placed every 1.5-3.0m with through-bolts. Recommended in case of a roof slope of at least 4° (i.e. 7%). Minimum 10% (6°) is recommended for slopes covered with more than one panel or rooflight element, connected to lengthwise.

The panel has a factory cut-back at the end of the panel, so it can also be joined lengthwise with other RW panels and with the KS1000 PC illuminator that is part of the system.

Our Highline gutter system and lighting domes integrated into the roof panel can also be used.

Panel Cross Section



Technical Parameters

KS RW Roof Panel has been tested and approved to comply with EN 14509:2013.

Module width/Cover width [mm]	Core Thickness [mm]	Mass [kg/m ²]	Thermal Transmittance (U-value) acc. EN 14509:2013 [W/m ² ·K]	Airborne Sound Insulation R _w (C;C _{tr})	Weighted Sound Absorption Coefficient [α _w]	GWP for modules A1-A3 [kg CO ₂ -eq./m ²]	GWP for modules A-C [kg CO ₂ -eq./m ²]
1,000/1,000	50	9.73	0.420	NPD	NPD	28.4	37.5
	60	10.07	0.360	NPD	NPD	29.5	39.3
	80	10.75	0.270	NPD	NPD	32.9	44.4
	100	11.43	0.220	NPD	NPD	34.6	47.6
	120	12.11	0.180	NPD	NPD	36.7	50.9
	160	13.47	0.140	NPD	NPD	39.6	57.1

The technical data is valid for a face thickness of Ext / Int. 0.50 / 0.40 mm and a module width of 1,000 mm.

Fire Performance

KS RW Roof Panel has been tested and approved to comply with EN 14509:2013 and EN 13501-5:2016 for roof coverings exposed to

external fire and is classified as Broof(t1).

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	B-s2, d0	NPD
	60	B-s2, d0	• RE 30'/REI 20' - 2.9m
	80	B-s2, d0	• RE 30'/REI 20' - 2.9m
	100	B-s2, d0	• RE 30'/REI 20' - 2.9m • RE 60'/REI 30' - 2m
	120	B-s2, d0	• RE 30'/REI 20' - 2.9m • RE 60'/REI 30' - 2m
	160	B-s2, d0	• RE 30'/REI 20' - 2.9m • RE 60'/REI 30' - 2m

¹ See details in the relevant classification reports and/or in technical documentation available on request.

³ Class is not defined in standard EN 13501-2 for this application, but the product meets its criteria.

Dimensions

Length

Shorter lengths (non-standard) [mm]	500-2499
Standard lengths [mm]	2500-16000
Longer lengths (non-standard)	

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

Width

Available panel width: 1,000 mm.

Product Tolerances

Product tolerances are measured according to the standard 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

Polyisocyanurate (IPN) insulation core with a Thermal Conductivity (λ) of 0.022 W/m·K according to EN 14509:2013 (MSZ EN 14509:2014).

External facing

The standard thickness of the coil coated steel sheet is 0.5mm.

On request also other steel sheet thicknesses are available.

Standard coating: PES25.

Internal facing

The standard thickness of the coil coated steel sheet is 0.4 mm.

On request also other steel sheet thicknesses are available.

Standard coating: PEI15.

Seals

Factory applied side joint seals. All side joints have a factory applied seal fitted into the groove to automatically seal the joint between panels.

Panels intended for external walls are usually delivered with an on the production line installed sealant in internal and external grooves.

Panels for high or vertically installed facades always have to be provided with sealant in both grooves of the joint.

Profiles

The available profiles can be found in the corresponding profile table.

Colours

The available colours can be found in the "Colour Guide" brochure.

Mechanical Resistance

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

Environmental Performance

Facilities located in Ujhartyan generate renewable energy onsite which contributes to that sites energy mix.

Kingspan Insulated Panels source steel with 15-25% recycled content.

Kingspan Insulated Panels directly contribute to BREEAM® and LEED® credits.

Production Standard

Kingspan Insulated Panels apply to the European Standard EN 14509:2013 Self-supporting double skin metal faced insulating panels.

Quality

Kingspan Insulated Panels are manufactured from the highest quality materials, using state of the art production equipment to rigorous quality control standards, complying with ISO 9001:2015 Quality management systems standards as well as ISO 37301:2021 Compliance management systems standards, ensuring long term reliability and service life.

The panels are also being manufactured under Environmental management system certification EN ISO 14001:2015, Energy management system certification EN ISO 50001:2018 and Occupational health and safety certification EN ISO 45001:2018.

KS RW Roof Panel is CE marked to EN 14509:2013.

Packing

Standard Packing - Road Transportation

Kingspan roof panels are stacked weather side to weather side in order to minimise palette height. The top, bottom, sides and ends are protected with foam and timber packing and the entire palette is wrapped with protection film.

The number of panels in a pack depends on panel thickness

and length. Quantities are reduced for exceptionally long panels.

Core Thickness [mm]	50	60	80	100	120	160
Number of Panels	16	14	11	9	8	6

Delivery

All deliveries are by road transport to a project site unless otherwise indicated. Unloading is the responsibility of the customer.

Sea Freight

Full timber crate packs are available at extra cost for projects requiring sea freight delivery. Alternatively steel containers can be used. Special loading charges apply.

Site Storage & Installation

For site storage and installation instructions please refer to the respective brochure or contact Kingspan Technical Support.

Warranty

Kingspan warranties are assessed individually for each project, depending in particular on the aggressiveness of the environment and the type of surface treatment chosen.

Profiles

Profile	External	Internal
T - Trapez profiling RW		
Q - Minibox		

Contact Details

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Scan the QR code or [click here](#) for the latest version of the document.

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