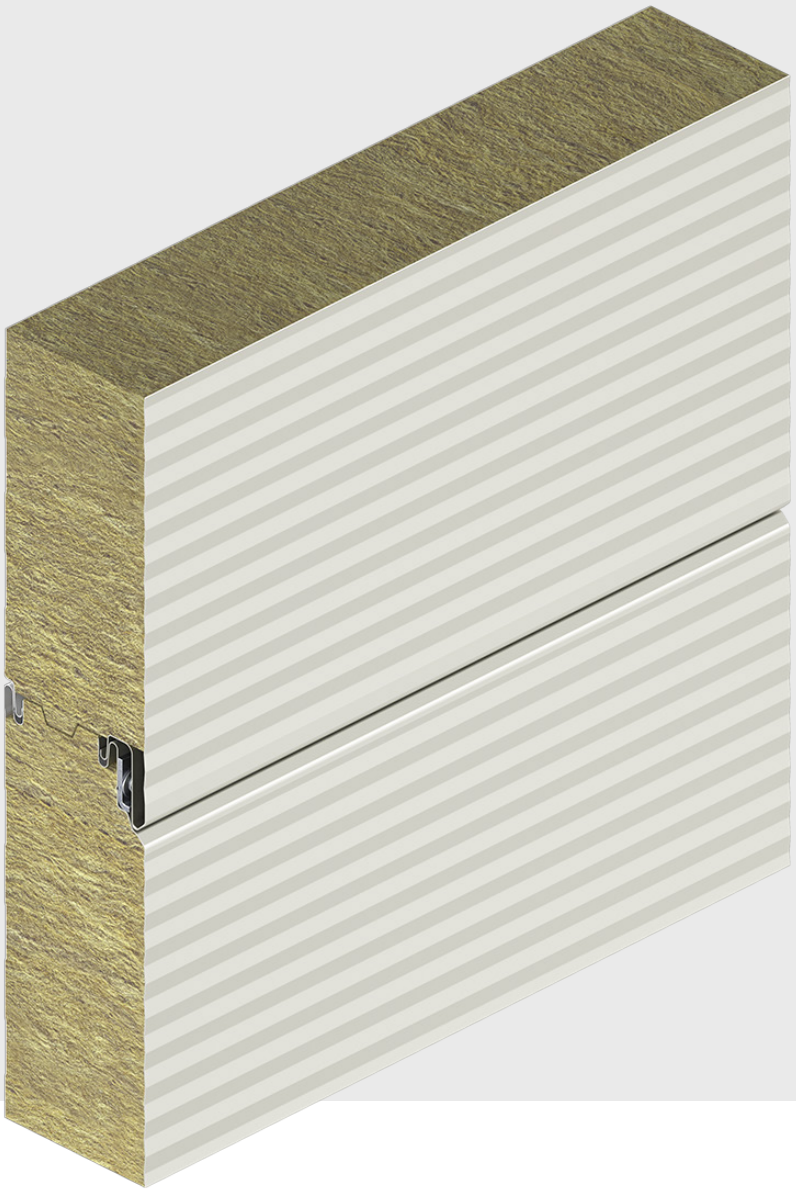
Insulated Panels
CEME Division

KS RH K-Roc® X Wall Panel
Product Data Sheet



Kingspan

Application

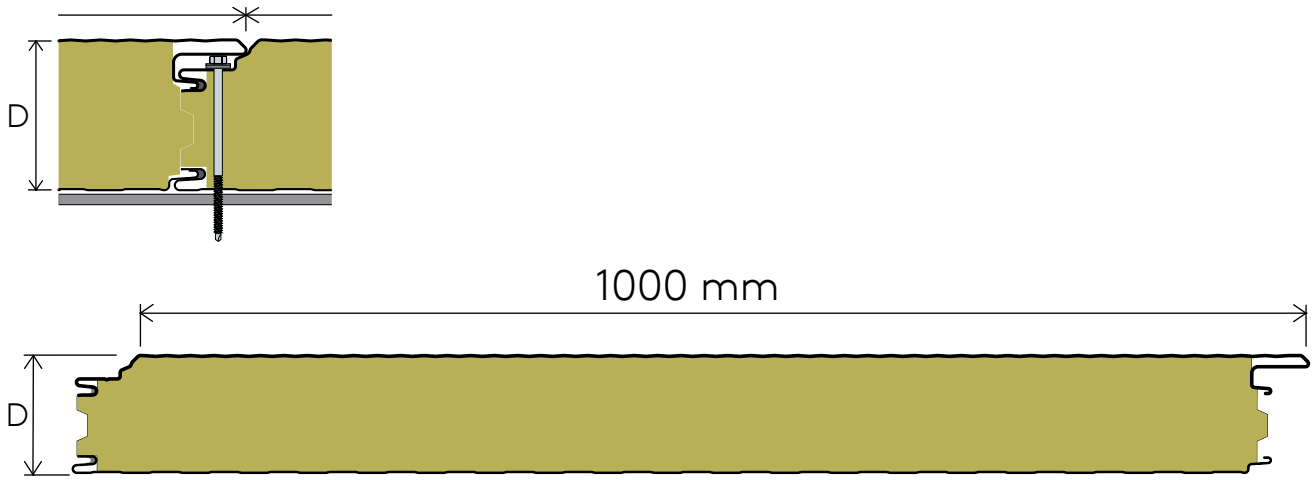
The KS RH K-Roc® X Wall Panel has hidden fixing and a non-combustible K-Roc® mineral wool thermal insulation core. Thanks to its fire resistance, it is suitable for installation at the border of a fire section or in places with a high fire protection risk.

It can be installed both horizontally and vertically on external facades.

Its use is recommended for buildings where the constant internal temperature is at least +4°C.

This type has extremely high fire resistance values.

Panel Cross Section



Technical Parameters

KS RH K-Roc® X Wall Panel has been tested and approved to comply with EN 14509:2013.

Module width/Cover width [mm]	Core Thickness [mm]	Mass [kg/m²]	Thermal Transmittance (U-value) acc. EN 14509:2013 [W/m²·K]	Airborne Sound Insulation $R_w(C;C_{tr})$	Weighted Sound Absorption Coefficient [α_w]	GWP for modules A1-A3 [kg CO2-eq./m²]	GWP for modules A-C [kg CO2-eq./m²]
1,000/1,000	80	18.26	0.520	29 (-2; -4) dB	NPD	44.8	51.8
	100	20.26	0.410	30 (-2; -4) dB	NPD	46.9	54.2
	120	22.26	0.340	30 (-2; -4) dB	NPD	49.1	56.7
	150	25.26	0.270	30 (-2; -4) dB	NPD	52.3	60.5
	175	27.76	0.230	31 (-2; -4) dB	NPD	54.9	63.5
	200	30.26	0.200	31 (-3; -4) dB	NPD	57.5	66.6

The technical data is valid for a face thickness of Ext / Int. 0.60 / 0.50 mm and a module width of 1,000 mm.

Fire Performance

KS RH K-Roc® X Wall Panel has been tested and approved to comply with EN 14509:2013.

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 - External Wall - Horizontal	Fire Resistance - External Wall - Vertical
1,000/1,000	80	A2-s1, d0	NPD	NPD
	100	A2-s1, d0	NPD	NPD
	120	A2-s1, d0	NPD	NPD
	150	A2-s1, d0	• E 240-ef (o→i)[1]/EI 240-ef (o→i)[1]/EW 240-ef (o→i)[1] - 4m • E 60 (i→o)[1]/EI 60 (i→o)[1]/EW 60 (i→o)[1] - 4m	• E 240-ef (o→i)[1]/EI 240-ef (o→i)[1]/EW 240-ef (o→i)[1] - 4m • E 60 (i→o)[1]/EI 60 (i→o)[1]/EW 60 (i→o)[1] - 4m
	175	A2-s1, d0	• E 240-ef (o→i)[1]/EI 240-ef (o→i)[1]/EW 240-ef (o→i)[1] - 4m • E 60 (i→o)[1]/EI 60 (i→o)[1]/EW 60 (i→o)[1] - 4m	• E 240-ef (o→i)[1]/EI 240-ef (o→i)[1]/EW 240-ef (o→i)[1] - 4m • E 60 (i→o)[1]/EI 60 (i→o)[1]/EW 60 (i→o)[1] - 4m
	200	A2-s1, d0	• E 240-ef (o→i)[1]/EI 240-ef (o→i)[1]/EW 240-ef (o→i)[1] - 4m • E 60 (i→o)[1]/EI 60 (i→o)[1]/EW 60 (i→o)[1] - 4m	• E 240-ef (o→i)[1]/EI 240-ef (o→i)[1]/EW 240-ef (o→i)[1] - 4m • E 60 (i→o)[1]/EI 60 (i→o)[1]/EW 60 (i→o)[1] - 4m

[1] See details in technical guide and assembly conditions.
[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]	500-1999
Standard lengths [mm]	2000-16000
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

K-Roc® mineral wool insulation core with a Thermal Conductivity (λ) of 0.041 W/m·K according to EN 14509:2013.

External facing

The standard thickness of the coil coated steel sheet is 0.6 mm.

On request also other steel sheet thicknesses are available.

Standard coating: Spectrum®, PES25.

Internal facing

The standard thickness of the coil coated steel sheet is 0.5 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 Felsolajos 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 RH K-Roc® X Wall Panel is CE marked to EN 14509:2013.

Packing

Standard Packing - Road Transportation

Kingspan Insulated Panels are stacked weather side to internal side. 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]	80	100	120	150	175	200
Number of Panels	15	12	10	8	6	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
F - Flat		
M - Micro		
Q - Minibox		

Contact Details

Kingspan Kereskedelmi Kft. Újhartyáni telephely
Központi elérhetőség
Horka dűlő 1.
Újhartyán 236
Tel: 36-30-455-4021
Email: info@kingspan.hu

Scan the QR code or click here for the latest version of the document.

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Issue : 09/11/2026