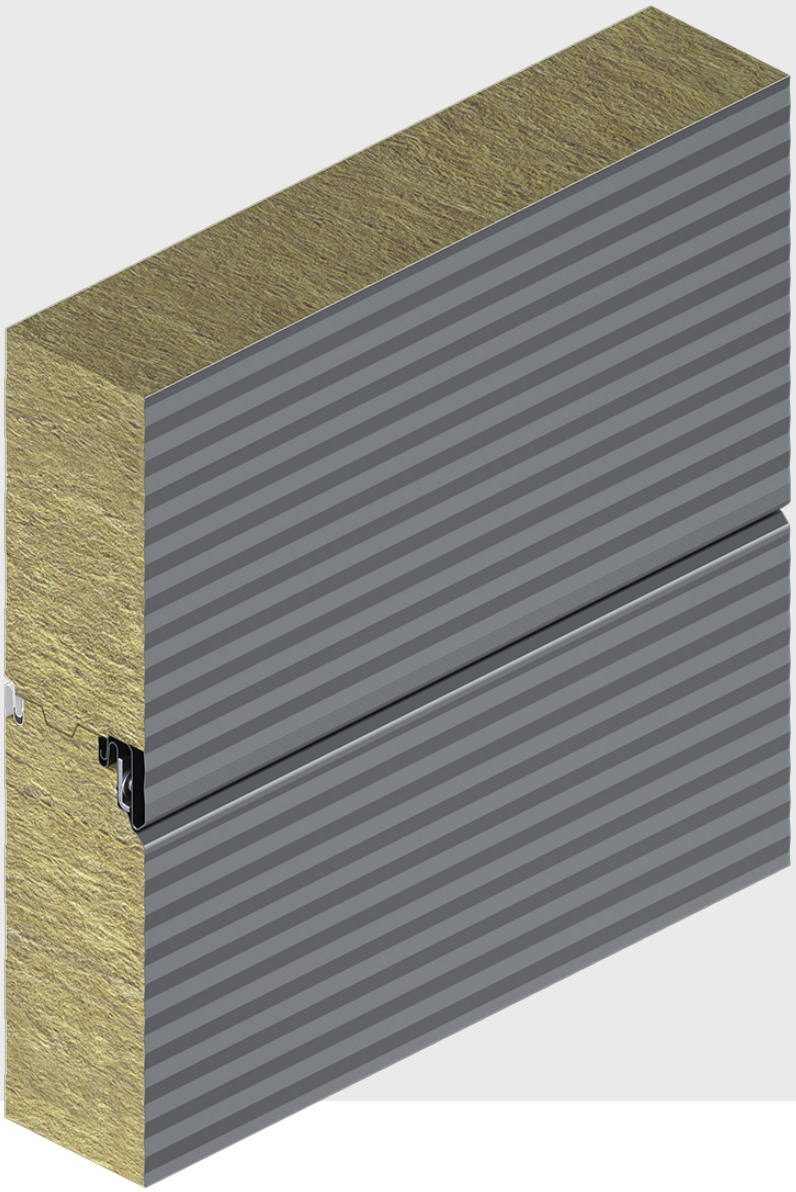
Insulated Panels
CEME Division

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



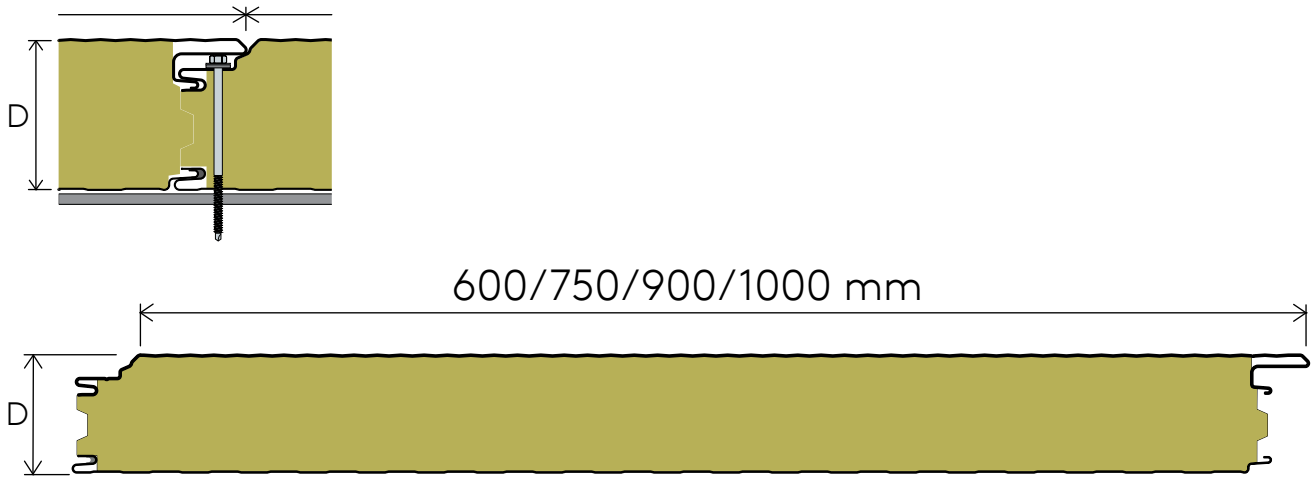
Kingspan

Application

The KS RH K-Roc® F Wall Panel with mineral wool core and concealed fixing can be installed vertically or horizontally in all types of buildings where the internal temperature is above 0° C. Particularly in those buildings where high fire performance is required.

Each application should be verified against individual project requirements.

Panel Cross Section



Technical Parameters

KS RH K-Roc® F 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	19.44	0.57	32 (-3; -3) dB	NPD	25.9	26.3
	100	21.74	0.45	31 (-2; -4) dB	NPD	28.8	29.3
	120	24.04	0.37	33 (-3; -3) dB	NPD	31.8	32.3
	150	27.49	0.30	32 (-2; -4) dB	NPD	36.5	37.1
	175	30.37	0.26	31 (-2; -4) dB	NPD	40.2	40.8
	200	33.24	0.22	31 (-2; -4) dB	NPD	44.2	44.9
	220	35.54	0.20	30 (-2; -4) dB	NPD	47.1	47.8
	240	37.84	0.19	30 (-2; -4) dB	NPD	50.4	51.2

The technical data is valid for a face thickness of Ext / Int. 0.60 / 0.50 mm.

Fire Performance

KS RH K-Roc® F 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	; EI 45 (i→o) [3] / ; EW 45 (i→o) [3] - 6m • EI 120-ef (o→i) / EW 120-ef (o→i) - 7.5m	; EI 45 (i→o) [3] / ; EW 45 (i→o) [3] - 4m • EI 30 (o↔i) / EW 30 (o↔i) - 4m
	120	A2-s1, d0	; EI 45 (i→o) [3] / ; EW 45 (i→o) [3] - 6m • EI 120-ef (o→i) / EW 120-ef (o→i) - 7.5m	; EI 45 (i→o) [3] / ; EW 45 (i→o) [3] - 4m • EI 240-ef (o→i) / EW 240-ef (o→i) - 4m
	150	A2-s1, d0	; EI 45 (i→o) [3] / ; EW 45 (i→o) [3] - 6m • EI 120-ef (o→i) / EW 120-ef (o→i) - 7.5m	; EI 45 (i→o) [3] / ; EW 45 (i→o) [3] - 4m • EI 240-ef (o→i) / EW 240-ef (o→i) - 4m
	175	A2-s1, d0	• EI 180 (i→o)[1] / EW 180 (i→o)[1] - 4m • EI 240-ef (o→i) / EW 240-ef (o→i) - 4m	• EI 240-ef (o→i) / EW 240-ef (o→i) - 4m • EI 90 (i→o) / EW 90 (i→o) - 6m
	200	A2-s1, d0	• EI 180 (i→o)[1] / EW 180 (i→o)[1] - 4m • EI 240-ef (o→i) / EW 240-ef (o→i) - 4m	• EI 240-ef (o→i) / EW 240-ef (o→i) - 4m • EI 90 (i→o) / EW 90 (i→o) - 6m
	220	A2-s1, d0	• EI 180 (i→o)[1] / EW 180 (i→o)[1] - 4m • EI 240-ef (o→i) / EW 240-ef (o→i) - 4m	• EI 240-ef (o→i) / EW 240-ef (o→i) - 4m • EI 90 (i→o) / EW 90 (i→o) - 6m
	240	A2-s1, d0	• EI 180 (i→o)[1] / EW 180 (i→o)[1] - 4m • EI 240-ef (o→i) / EW 240-ef (o→i) - 4m	• EI 240-ef (o→i) / EW 240-ef (o→i) - 4m • EI 90 (i→o) / EW 90 (i→o) - 6m

[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]	550-1999
Standard lengths [mm]	2000-9000
Longer lengths (non-standard) [mm]	9001-14300

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

Width

The standard module width is 1,000 mm and cover 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 0.045 W/m·K according to EN 14509:2013.

External facing

The standard thicknesses of the coil coated steel sheet is 0,6 mm. On request also other steel sheet thicknesses are available. Available coatings: Spectrum®, PVDF, PES25.

Internal facing

The standard thicknesses of the coil coated steel sheet is 0,5 mm. On request also other steel sheet thicknesses are available. Available coatings: PEI15, PES25.

Seals

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

Profiles

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

Colours

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

Please make sure that you use the right name of the brochure.

Mechanical Resistance

For load / span tables, please refer to the “Technical Guide“ brochure or contact Kingspan Technical Support.

Environmental Performance

Facilities located in Lipsko 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, ensuring long term reliability and durability.

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

KS RH K-Roc® F Wall Panel is CE marked to EN 14509:2013.

Packing

Standard Packing - Road Transportation

KS RH K-Roc® F is 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	220	240
Number of Panels	15	12	9/10	7/8	6/7	5/6	5	4/5

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
E - Eurobox		
F - Flat		
M - Micro		
Q - Minibox		
B - Box		

Contact Details

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

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