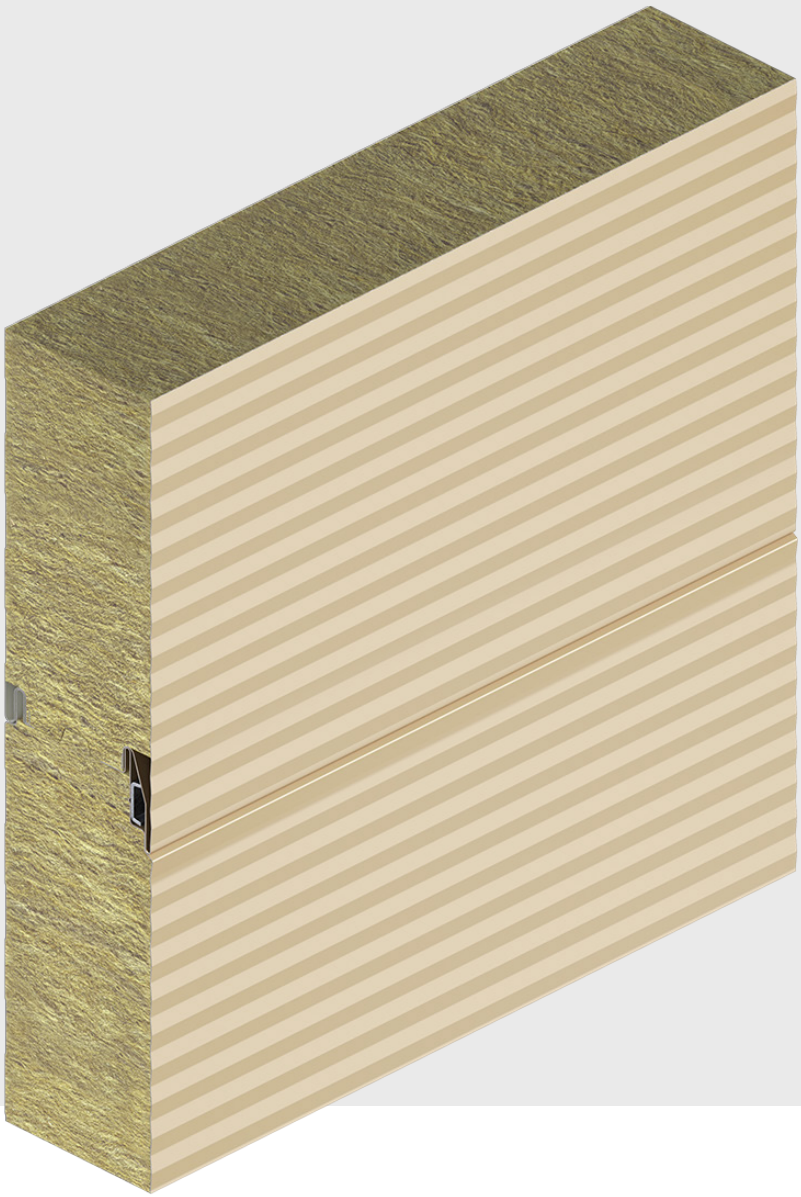
Insulated Panels
Slovenia

KS FH K-Roc® Wall Panel
Product Data Sheet



Application

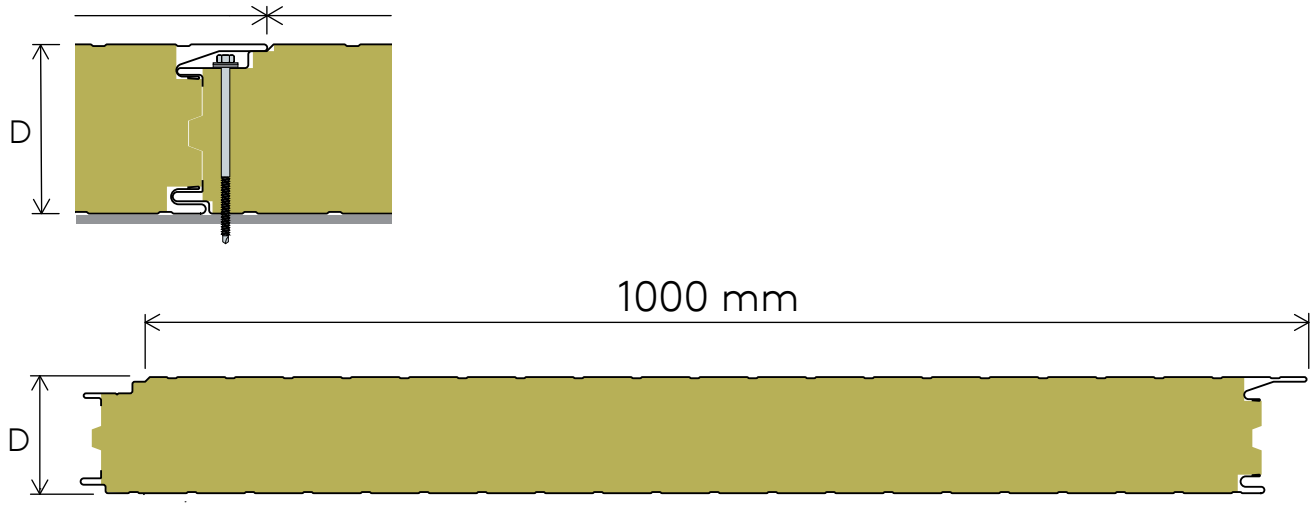
KS FH K-Roc® wall panel is a sandwich panel with K-Roc® insulation core - mineral wool, delivered from the production plant in Hradec Králové, Kingspan Czech Republic.

Application: horizontal or vertical.

Method of fixing to the structure: hidden anchoring elements, or even admitted anchoring. For hidden anchoring, the use of 2 screws with Ø 16 mm sealing washer and Z15b spreading washer is recommended. The use of a Kingspan system washer is required. Provided that it is statically satisfactory, one bolt with Ø 22 mm washer can be used without a spreader washer.

KS FH K-Roc® wall panel is suitable for external or internal walls of all buildings with a design internal temperature higher than 5°C. The suitability and applicability of the panel must be assessed individually with regard to the specific project conditions.

Panel Cross Section



Technical Parameters

Kingspan insulated panels have 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]
1,000 / 1,000	60	16.87	0.70	31 (-1; -3) dB	NPD
	80	19.27	0.53	31 (-1; -3) dB	NPD
	100	20.68	0.42	32 (-1; -3) dB	NPD
	120	22.88	0.35	32 (-1; -3) dB	NPD
	140	25.08	0.30	32 (-1; -3) dB	NPD
	150	26.18	0.28	33 (-1; -3) dB	NPD

The technical data is valid for a face thickness of Ext / Int. 0.60 / 0.50 mm.
NPD - value has not been defined

Fire Performance

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

Fire resistance classifications are given in accordance with EN 13501-2:2023. The table only shows the maximum fire resistance values according to EN 1364-1:2015 for external and internal walls and EN 1364-2:2018 for ceilings.

Contact your Kingspan representative for results according to the extended application of fire tests for larger spans to EN 15254-5:2018

for exterior and interior walls and to EN 15254-7:2018 for ceilings.

Please note: the values given for fire resistance and other characteristics are subject to change over time.

Module width / Cover width [mm]	Core Thickness [mm]	Reaction to Fire	Fire Resistance - Ceiling	Fire Resistance - External Wall - Horizontal	Fire Resistance - External Wall - Vertical	Fire Resistance - Internal Wall - Horizontal	Fire Resistance - Internal Wall - Vertical
1,000 / 1,000	60	A2-s1, d0	NPD	NPD	NPD	NPD	NPD
	80	A2-s1, d0	NPD	NPD	NPD	NPD	NPD
	100	A2-s1, d0	NPD	• EI 30 (i→o) ; EI 45 (i→o) [3] / EW 30 (i→o) ; EW 45 (i→o) [3] - 4m • EI 30-ef (o→i) ; EI 45-ef (o→i) [3] - 4m	• EI 30 (i→o) / EW 30 (i→o) - 4m • EI 90-ef (o→i) - 4m	NPD	NPD
	120	A2-s1, d0	NPD	• EI 30 (i→o) ; EI 45 (i→o) [3] / EW 30 (i→o) ; EW 45 (i→o) [3] - 4m • EI 30-ef (o→i) ; EI 45-ef (o→i) [3] - 4m	• EI 30 (o↔i) / EW 30 (o↔i) - 4m	NPD	NPD
	140	A2-s1, d0	NPD	• EI 30 (i→o) ; EI 45 (i→o) [3] / EW 30 (i→o) ; EW 45 (i→o) [3] - 4m • EI 30-ef (o→i) ; EI 45-ef (o→i) [3] - 4m	• EI 30 (o↔i) / EW 30 (o↔i) - 4m	NPD	NPD
	150	A2-s1, d0	NPD	• EI 30 (i→o) ; EI 45 (i→o) [3] / EW 30 (i→o) ; EW 45 (i→o) [3] - 4m • EI 30-ef (o→i) ; EI 45-ef (o→i) [3] - 4m	• EI 30 (o↔i) / EW 30 (o↔i) - 4m	NPD	NPD

[1] See details in the relevant certification report 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.
NPD - value has not been defined

Dimensions

Length

Shorter lengths (non-standard) [mm]	270-1849
Standard lengths [mm]	1850-10000
Longer lengths (non-standard) [mm]	10001-14200

Minimum and maximum non-standard lengths apply to all thicknesses according to the values shown in the table.

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

Width

The standard module width is 1,000 mm .

Product Tolerances

Product tolerances are measured according to the standard EN 14509:2013, , Annex D.

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) for thisckneses 100-150 mm of 0.043 W/m·K a Thermal Conductivity (λ) for thicknesses 60 and 80 mm of 0.044 W/m·K according to EN 14509:2013, EN 13162:2012+A1:2015.

External facing

The standard thicknesses of the coil coated steel sheet are 0.6 mm.

On request also other steel sheet thicknesses are available.

Standard coating: Polyester SP25 (Kingspan PES 25).

Internal facing

The standard thicknesses of the coil coated steel sheet are 0.5 mm. On request also other steel sheet thicknesses are available.

Standard coating: Polyester SP25 (Kingspan PES 25).

Seals

KS FH K-Roc® Wall Panell is designed for direct installation. For normal use and installation, it is supplied from the factory in the final longitudinal joint design, without the need for the addition of seals and tapes on site. For non-standard applications or specific requirements, please contact Kingspan Support.

Profiles

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

Colours

The available colours can be found in the "Colour shades and

surface treatments" brochure.

Mechanical Resistance

Load capacity/span tables can be found in the booklet "Kingspan Technical Manual - Load span tables" or contact Kingspan Support.

Environmental Performance

Facilities located in Hradec Kralove generate renewable electrical energy onsite(PV) which contributes to that sites energy mix.

Kingspan Insulated Panels source steel with 13-23% 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 FH K-Roc® Wall Panel is CE marked to EN 14509:2013.

Packing

Standard Packing - Road Transportation

Unless otherwise stated, all Kingspan insulation panels are supplied in packs, folded interior side down, the last three panels, top side up (not applicable to incomplete packs). The top and bottom walls of the packs are protected by polystyrene or honeycomb board. The sides are then protected by polystyrene or honeycomb strips. The whole bales are covered on the underside with polystyrene blocks or a wooden pallet and wrapped in protective foil.

Core Thickness [mm]	60	80	100	120	140	150
Number of Panels	18/15/13	13/11	11/10	9	7	7

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 "Kingspan Technical Manual - Handling and Installation" or contact Kingspan.

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

Contact Details

Kingspan Izolacijki Paneli
Dunajska cesta 106
1000 Ljubljana
Tel: +386 (0)59 112 065
Email: info@kingspan.si

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

Issue : 07/08/2026