

Insulated Panels
CEME Division

Hoesch® QK QuadCore® Built-On Panel Product Data Sheet



POWERED BY
QuadCore®
TECHNOLOGY



Application

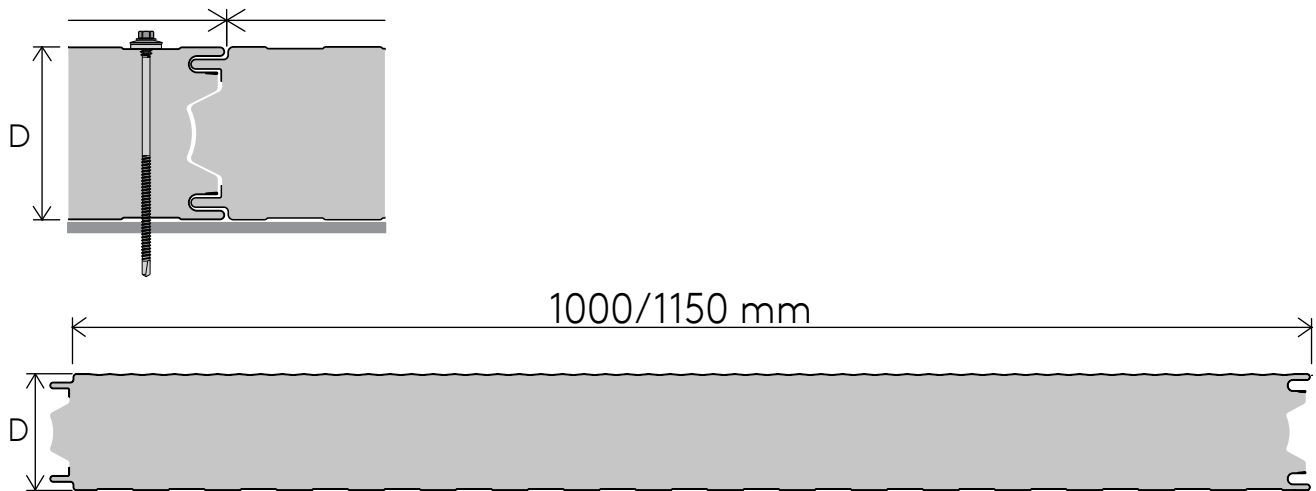
Hoesch® QK QuadCore® Built-On Panel with visible fastening can be installed vertically or horizontally as an external wall, partition wall or ceiling in all types of buildings, especially where good thermal insulation is required.

Hoesch® QK QuadCore® is a load-bearing sandwich element with a QuadCore® foam insulation core. It is designed and certified to transfer loads from the external facade cladding. The system includes starter profiles, base profile, aluminum Omega and/or Z profiles, sealing strips and system screws.

The Hoesch® QK QuadCore® system allows for the rapid implementation of a complete external cladding regardless of weather conditions.

Each application should be checked according to the project requirements.

Panel Cross Section



Technical Parameters

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 CO ₂ -eq./m²]	GWP for modules A-C [kg CO ₂ -eq./m²]
1,150/1,150	100	13.14	0.19	25 (-3; -5) dB	NPD	35.2	42.8
	120	13.9	0.16	25 (-3; -5) dB	NPD	35.4	44.2
	150	15.04	0.13	25 (-3; -5) dB	NPD	38.7	49.5
	170	15.8	0.11	25 (-3; -5) dB	NPD	40.3	52.3
	200	16.94	0.10	26 (-4; -6) dB	NPD	44.1	58.3

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

Fire Performance

Hoesch® QK QuadCore® Built-On 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
1,150/1,150	100	B-s1, d0	• EI 20 (o↔i) / EW 30 (o↔i) - 3m	• EI 15 (o↔i) / EW 15 (o↔i) - 4m
	120	B-s1, d0	• EI 20 (o↔i) / EW 30 (o↔i) - 3m	• EI 15 (o↔i) / EW 15 (o↔i) - 4m
	150	B-s1, d0	• EI 30 (o↔i) / EW 30 (o↔i) - 4m	• EI 15 (o↔i) / EW 15 (o↔i) - 4m
	170	B-s1, d0	• EI 30 (o↔i) / EW 30 (o↔i) - 4m	• EI 15 (o↔i) / EW 15 (o↔i) - 4m
	200	B-s1, d0	• EI 45 (o↔i) ³ / ; EW 45 (o↔i) ³ - 6m	• EI 15 (o↔i) / EW 15 (o↔i) - 4m

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]	550-2499
Standard lengths [mm]	2500-15000
Longer lengths (non-standard)	

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

The standard module length is 2500-15000 mm.

Width

The standard module width is 1,150 mm and cover width 1,150 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

QuadCore® Technology insulation core with a Thermal Conductivity (λ) of 0.019 W/m·K according to EN 14509:2013.

External facing

The standard thicknesses of the coil coated steel sheet is 0.60 mm. On request also other steel sheet thicknesses are available. Standard coating: PES25.

Internal facing

The standard thicknesses of the coil coated steel sheet is 0.50 mm. On request also other steel sheet thicknesses are available. Standard coating: PEI15.

Seals

Hoesch® QK QuadCore® panels interlock with tongue-in-groove joints. No additional sealant is applied in the groove of panel at the factory.

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 static calculations, use the design approach by contacting Kingspan Technical Department.

Environmental Performance

Facilities located in Lipsko (Poland) production site generate renewable energy onsite which contributes to that sites energy mix. Kingspan Insulated Panels source steel with 15-25% recycled content. Kingspan architectural facade systems directly contribute to BREEAM® and LEED® credits.

Hoesch® QK QuadCore® Built-On Panel has Environmental Product Declarations in accordance with the requirements of EN 15804:2012+A2:2019/AC:2021.

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.

Hoesch® QK QuadCore® Built-On Panel is CE marked to EN 14509:2013.

Packing

Standard Packing - Road Transportation

Hoesch® QK QuadCore® Built-On Panel 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]	100	120	150	170	200
Number of Panels	11	9	7	6	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
F - Flat		
M - Micro		
Q - Minibox		
D - Deep		

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, Paroc Panel System 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 Advisory Service 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/country

