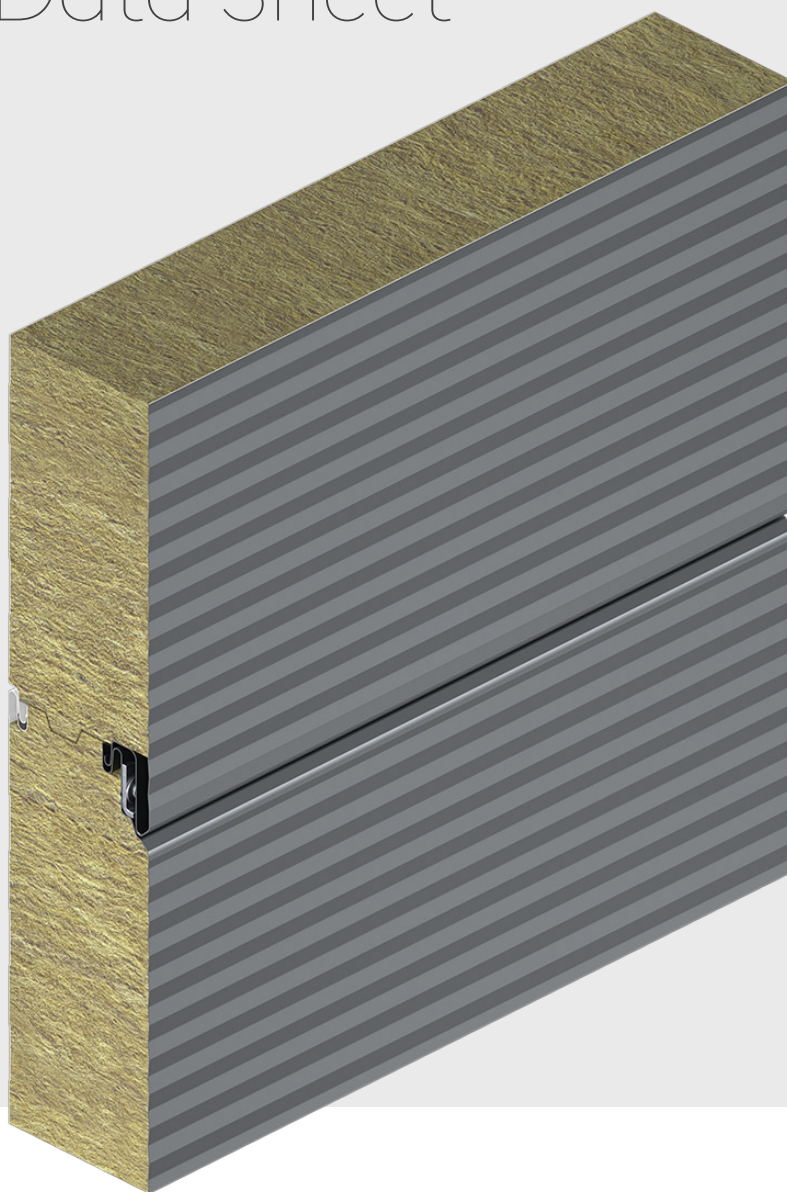


Insulated Panels
CEME Division

Hoesch® isorock vario HH F Wall Panel

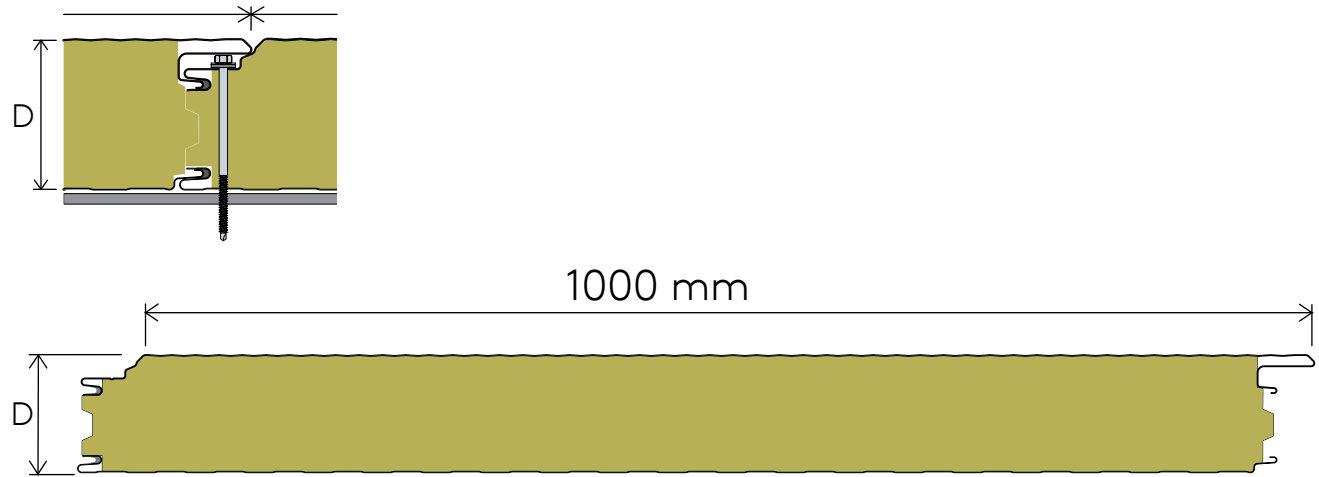
Product Data Sheet



Application

The Hoesch® isorock vario HH F Wall Panel is a wall panel system with mineral wool insulation core and secret fixing. It can be used for all building types and implemented both horizontally and vertically. This element combines fire protection and façade design. An extra plus in terms of attractiveness: The secret fixing and the identical external appearance of Hoesch® isorock vario HH F Wall Panel can be combined with Hoesch® isowand vario QuadCore Wall Panel.

Panel Cross Section



Technical Parameters

The Hoesch® isorock vario HH 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 Absorp- tion Coefficient [α_w]	GWP for mod- ules A1-A3 [kg CO2-eq./ m²]	GWP for mod- ules 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

The Hoesch® isorock vario HH 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 - 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	80	A2-s1, d0	NPD	NPD	NPD	NPD	NPD
	100	A2-s1, d0	NPD	; 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	NPD	• EI 30 / EW 30 - 4m
	120	A2-s1, d0	NPD	; 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	NPD	• EI 30 / EW 30 - 4m
	150	A2-s1, d0	NPD	; 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	NPD	• EI 30 / EW 30 - 4m
	175	A2-s1, d0	NPD	• 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	NPD	• EI 30 / EW 30 - 4m
	200	A2-s1, d0	NPD	• 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	NPD	• EI 30 / EW 30 - 4m
	220	A2-s1, d0	NPD	• 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	NPD	• EI 30 / EW 30 - 4m
	240	A2-s1, d0	NPD	• 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	NPD	• EI 30 / EW 30 - 4m

¹ See details in technical guide and assembly conditions.

Dimensions

Length

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

Additional costs and transport restrictions may apply for non-standard trucks (> 13,50 m).

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, attachment D.

Length tolerance	≤3m, -	5 mm
Length tolerance	≤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

Mineral wool insulation core (S1) with a Thermal Conductivity (λ_D) of 0.045 W/m·K according to EN 14509:2013.

External facing

The standard thicknesses of the coil coated steel sheet are 0.60 mm. On request also other steel sheet thicknesses for visible fixing available. Standard coating: Polyester (25 µm) – PES. Optional: Spectrum™ (50 µm).

Internal facing

The standard thicknesses of the coil coated steel sheet are 0.50 mm. On request also other steel sheet thicknesses for visible

fixing available. Standard coating: Thin film coating (15 µm).
Optional: Polyester (25 µm) – PES.

Seals

The Hoesch® isorock vario HH F Wall Panel is fitted in the factory with two sealing tapes, that seal against convection and condensation water.

Profiles

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

Colours

The colours available can be found in the 'Colours and Coatings' brochure.

Mechanical Resistance

For load / span tables, please refer to the 'Span table' on our website or contact our Technical Support.

Environmental Performance

Our production facilities 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. The Hoesch® isorock

vario HH F Wall Panel is CE marked to EN 14509:2013.

Packing

Standard Packing - Road Transportation

Hoesch® isorock vario HH F Wall Panel is stacked weather side to internal side. The top, bottom, sides and ends are protected with foam and polystyrol 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. Please refer to our 'Handling & Assembly' brochure.

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 our 'Handling & Assembly' brochure and the 'Guideline for the planning and implementation of roof, wall & ceiling constructions made from proled metal panels' of the IFBS. We would like to point out that, for structural reasons, the use of load distribution plates may be necessary when installing this wall element. In this case, original Kingspan load distribution plates must be used for concealed fastening. Only these comply with the quality guidelines according to the respective valid approval, are externally monitored and are the basis for warranty.

Warranty

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

Profiles

Profile	External	Internal
C - Micro 8mm		
E - Eurobox		
F - Flat		
M - Micro		
Q - Minibox		
B - Box		

Contact Details

Hoesch®
Kingspan Sp. z o.o.
ul. Przemysłowa 20 | 27-300 Lipsko | Poland
T: +49 281 9525078
E: info@hoesch-bau.com



For the latest product details, please always refer to the latest version of this data sheet by scanning the QR code or by clicking on this [Link](#).

The information provided in this datasheet is accurate as of its date of publication and represents our commitment to quality and transparency. However, Kingspan Insulated Panels 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. Customer are responsible for verifying the product's suitability for their particular needs and for ensuring compliance with all applicable laws and regulations.

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.hoesch-bau.com

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