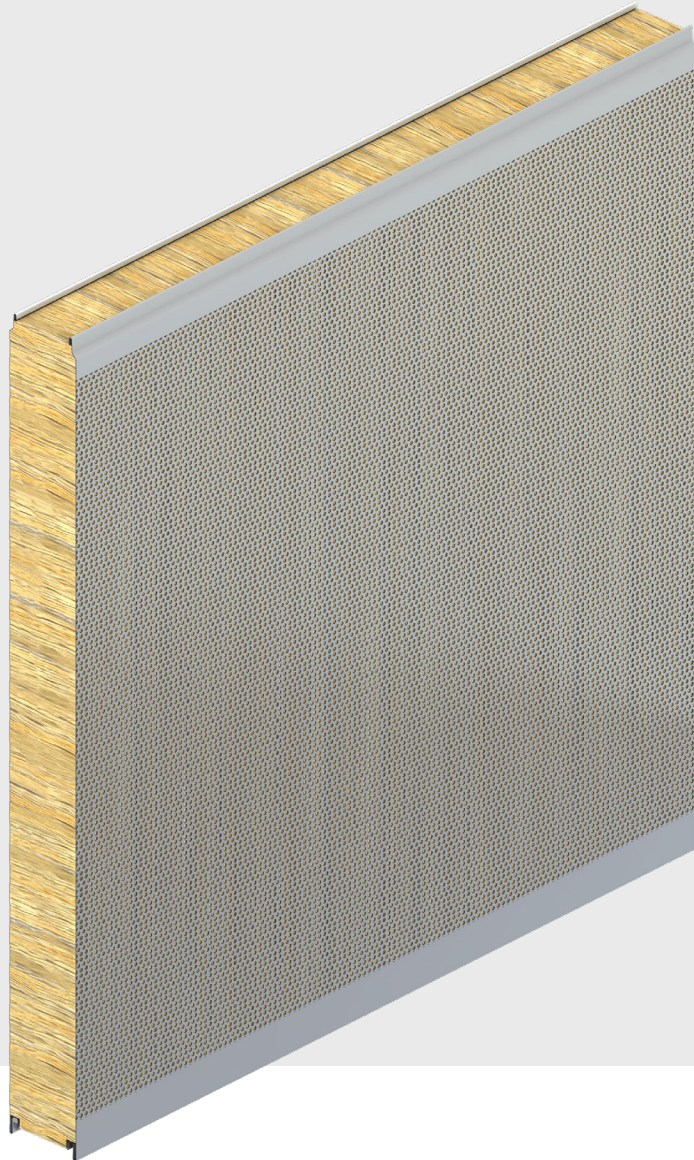


Insulated Panels
CEME Division

Hoesch® isorock HP Acoustic Mineral Wool Wall Panel

Product Data Sheet

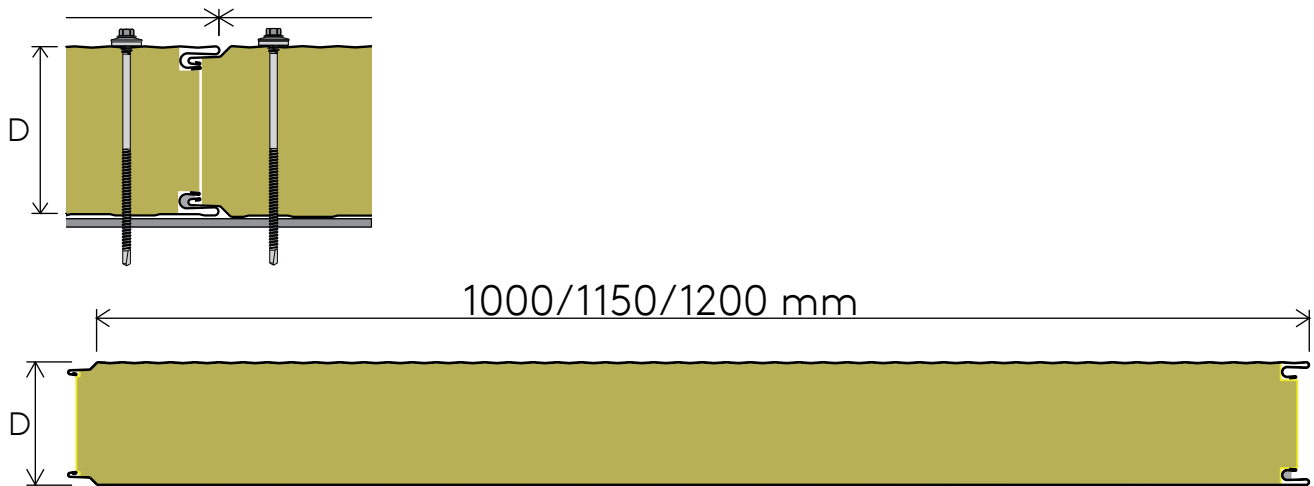


Application

The Hoesch® isorock HP Acoustic Mineral Wool Wall Panel is a visible fixed insulated panel with mineral wool insulation core and perforated inner cover layer. It is used as a partition wall and only for internal application. Due to the perforated inner face layer, the acoustic behavior in rooms is significantly improved. Especially for acoustic insulation and sound absorption applications. The sandwich elements can be laid vertically or horizontally.

The sound absorption coefficient (α_w) according to EN ISO 11654:1997 is 0.95 for element thicknesses of 80-100 mm and 1.0 for element thicknesses of 120-150 mm. The sound absorption coefficients (α_s) are available from Kingspan Technical Support.

Panel Cross Section



Technical Parameters

The sound insulation of the Hoesch® isorock HP Acoustic Mineral Wool Wall Panel is tested in accordance with EN ISO 10140-2:2021. The sound absorption coefficient (α_w) according to EN ISO 11654:1997 is 0.95 for element thicknesses of 80-100 mm and 1.0 for element thicknesses of 120-150 mm. The sound absorption coefficients (α_s) are available from Kingspan Technical Support.

Module width / Cover width [mm]	Core Thickness [mm]	Mass [kg/m²]	Thermal Transmittance (U-value) acc. EN 14509:2013 [W/m²·K]	Thermal Transmittance (U-value) acc. EN ISO 6946:2017 [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	80	18.83	0.53	0.52	35 (-3; -4) dB	0.95	25.9	26.3
	100	21.13	0.43	0.42	35 (-3; -4) dB	0.95	28.8	29.3
	120	23.43	0.36	0.36	35 (-3; -4) dB	1.00	31.8	32.3
	150	26.88	0.29	0.29	35 (-3; -4) dB	1.00	36.5	37.1

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

Fire Performance

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 - Internal Wall - Horizontal	Fire Resistance - Internal Wall - Vertical
1,150/1,150	80	A2-s1, d0	NPD	NPD
	100	A2-s1, d0	NPD	NPD
	120	A2-s1, d0	NPD	NPD
	150	A2-s1, d0	NPD	NPD

Dimensions

Length

Shorter lengths (non-standard) [mm]	550-1999
Standard lengths [mm]	2000-7000
Longer lengths (non-standard) [mm]	7001-13000

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

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, attachment 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

Mineral wool insulation core with a Thermal Conductivity (λ_D) of 0.045 W/m·K according to EN 13162:2015.

External facing

The standard thicknesses of the coil coated steel sheet are 0.50 mm. Standard coating: Polyester (25 µm) – PES. Optional: Spectrum™ (50 µm).

Internal facing

The standard thicknesses of the coil coated steel sheet are 0.60 mm. Standard coating: Polyester (25 µm) – PES.

Seals

The Hoesch® isorock HP Acoustic Mineral Wool Wall Panel is fitted in the factory with a sealing tape, that seals 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.

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

The Hoesch® isorock HP Acoustic Mineral Wool Wall Panel is for indoor use only and is specified in accordance with EN 14509:2013.

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.

Packing

Standard Packing - Road Transportation

Hoesch® isorock HP Acoustic Mineral Wool 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
Number of Panels	15	12	9/10	7/8

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.

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

Contact Details

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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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