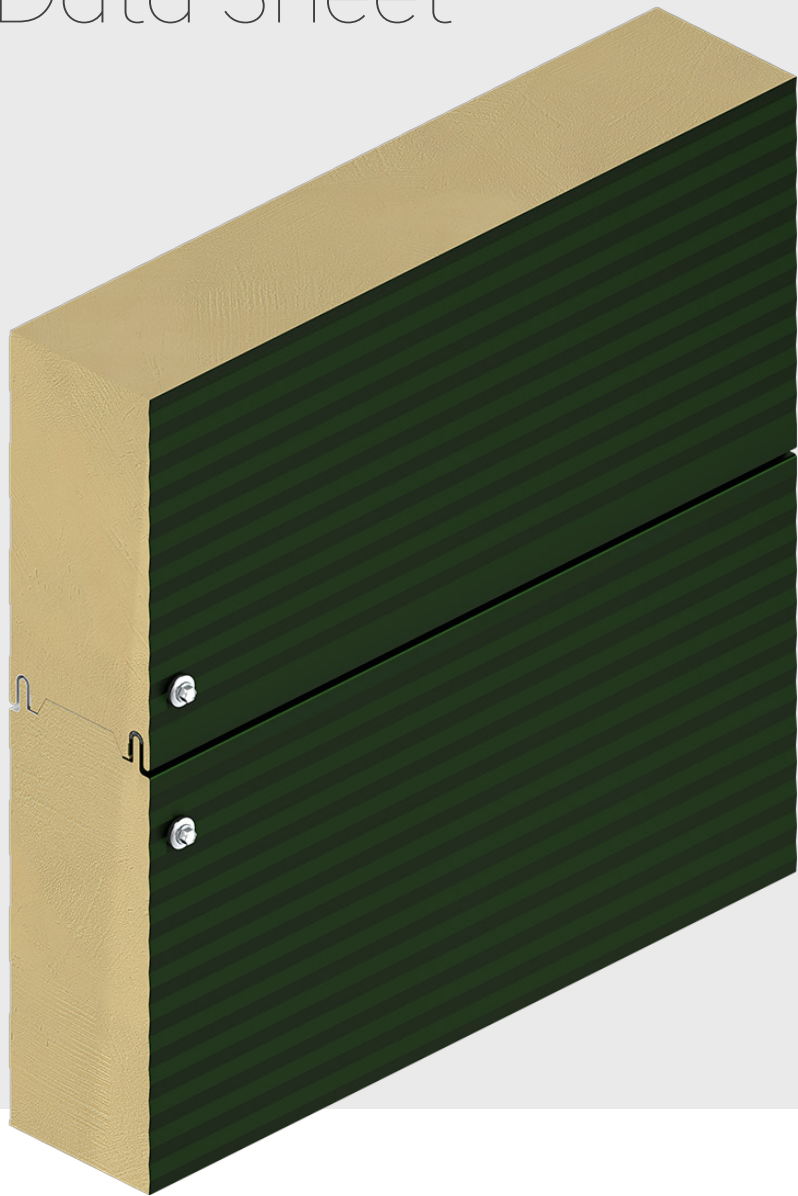


Insulated Panels
CEME Division

Hoesch® Thermowand HF Wall Panel

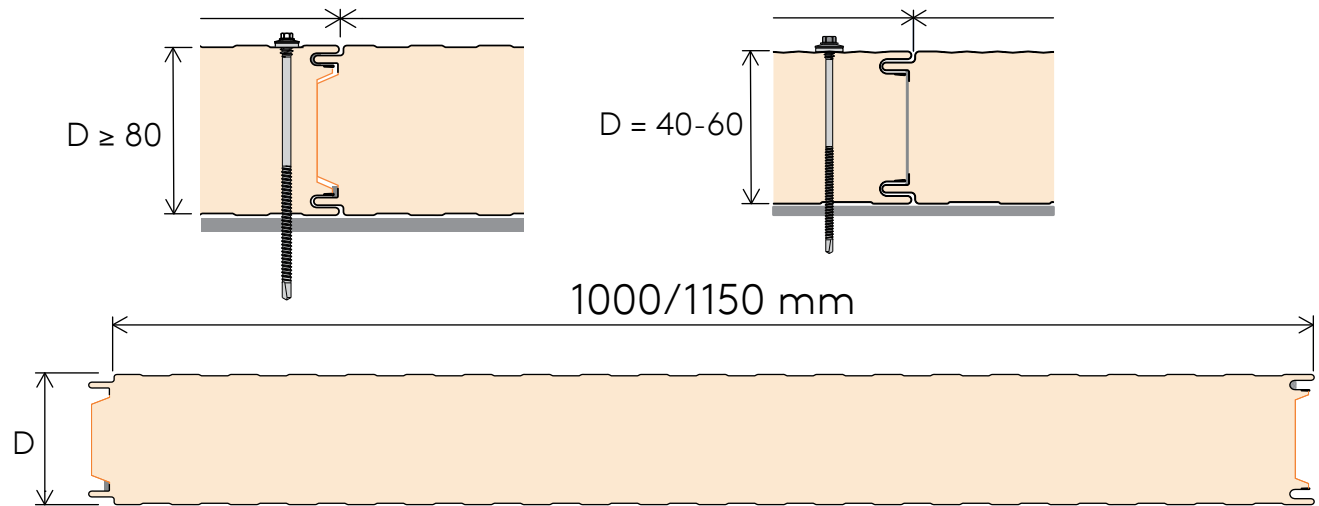
Product Data Sheet



Application

Hoesch® Thermowand HF is a wall system with visible fixing and a special joint geometry. It can be used for all types of buildings in both horizontal and vertical design and is excellent for use in cold stores and temperature controlled environments.

Panel Cross Section



Technical Parameters

The Hoesch® Thermowand HF 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]	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 CO2-eq./m²]	GWP for modules A-C [kg CO2-eq./m²]	FM Approval
1,150/1,150	40	10.01	0.59	0.52	24 (-2; -3) dB	NPD	30.3	39.2	4880/4881
	60	10.77	0.36	0.35	25 (-3; -4) dB	NPD	31.3	41.2	4880/4881
	80	11.53	0.27	0.27	25 (-3; -4) dB	NPD	33.8	45.3	4880/4881
	100	12.29	0.22	0.21	25 (-2; -4) dB	NPD	35.7	48.9	4880/4881
	120	13.05	0.18	0.18	26 (-3; -5) dB	NPD	37.9	52.8	4880/4881
	150	14.19	0.15	0.14	26 (-3; -4) dB	NPD	41.3	60.7	4880/4881
	170	14.95	0.13	0.13	27 (-3; -5) dB	NPD	43.3	64.6	4880/4881
	200	16.09	0.11	0.11	27 (-3; -5) dB	NPD	45.2	67.8	4880/4881

The technical data is valid for a face thickness of Ext / Int. 0.60 / 0.40 mm.

Fire Performance

The Hoesch® Thermowand HF 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. FM Approved product specifications are

available on request 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
1,150/1,150	40	B-s2, d0	NPD	NPD	NPD	NPD	NPD
	60	B-s1, d0	NPD	NPD	NPD	NPD	NPD
	80	B-s1, d0	NPD	NPD	NPD	NPD	NPD
	100	B-s1, d0	NPD	• EI 20 (o↔i) / EW 20 (o↔i) - 4m	• EI 15 (o↔i) / EW 15 (o↔i) - 4m	• EI 20 / EW 20 - 4m	• EI 15 / EW 15 - 4m
	120	B-s1, d0	NPD	• EI 30 (o↔i) / EW 30 (o↔i) - 4m	• EI 20 (o↔i) / EW 30 (o↔i) - 4m	• EI 30 / EW 30 - 4m	• EI 20 / EW 30 - 4m
	150	B-s1, d0	NPD	• EI 30 (o↔i) / EW 30 (o↔i) - 4m	• EI 20 (o↔i) / EW 30 (o↔i) - 4m	• EI 30 / EW 30 - 4m	• EI 20 / EW 30 - 4m
	170	B-s1, d0	NPD	• EI 30 (o↔i) / EW 30 (o↔i) - 4m	• EI 20 (o↔i) / EW 30 (o↔i) - 4m	• EI 30 / EW 30 - 4m	• EI 20 / EW 30 - 4m
	200	B-s1, d0	NPD	• EI 30 (o↔i) / EW 30 (o↔i) - 4m	• EI 20 (o↔i) / EW 30 (o↔i) - 4m	• EI 30 / EW 30 - 4m	• EI 20 / EW 30 - 4m

Dimensions

Length

Shorter lengths (non-standard) [mm]	270-1849
Standard lengths [mm]	1800-14500
Longer lengths (non-standard)	

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

Polyisocyanurate (IPN 3) insulation core with a Thermal Conductivity (λ_p) of 0.022 W/m·K according to EN 14509:2013.

External facing

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

Spectrum™ (50 µm) or Foodsafe (150 µm) – for applications with increased hygienic requirements.

Internal facing

The standard thicknesses of the coil coated steel sheet are 0.40 mm. On request also 0.50 mm or 0.60 mm steel sheet thicknesses available. Standard coating: Thin film coating (15 µm). Optional: Polyester (25 µm) – PES or Foodsafe (150 µm) – for applications with increased hygienic requirements.

Seals

The Hoesch® Thermowand HF 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.

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® Thermowand HF Wall Panel is CE marked to EN 14509:2013.

Packing

Standard Packing - Road Transportation

Hoesch® Thermowand HF 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]	40	60	80	100	120	150	170	200
Number of Panels	27/23/20/17	18/16	13	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. 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
B - Box		
E - Eurobox		
F - Flat		
M - Micro		
Q - Minibox		
W - Wave		
D - Deep		

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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