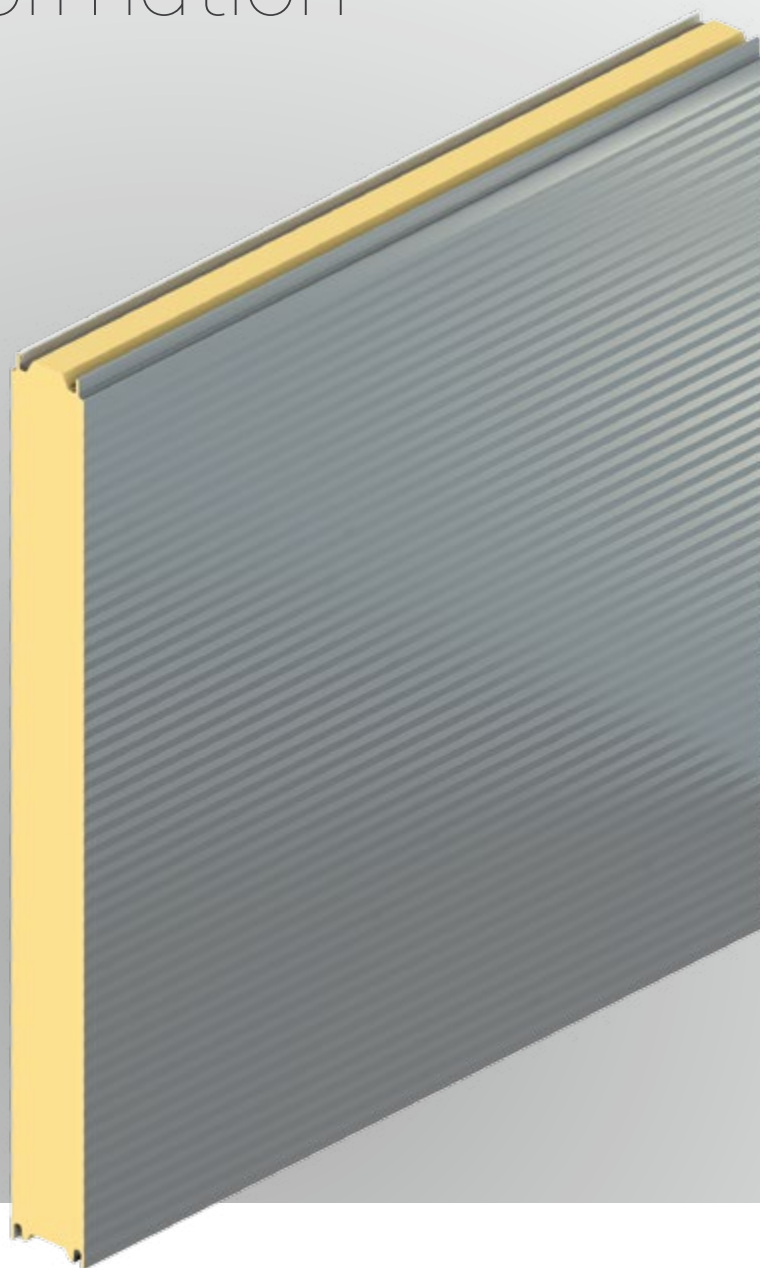


Insulated roof and wall systems  
Hoesch®

# Hoesch® Thermowand HF

## Product Information



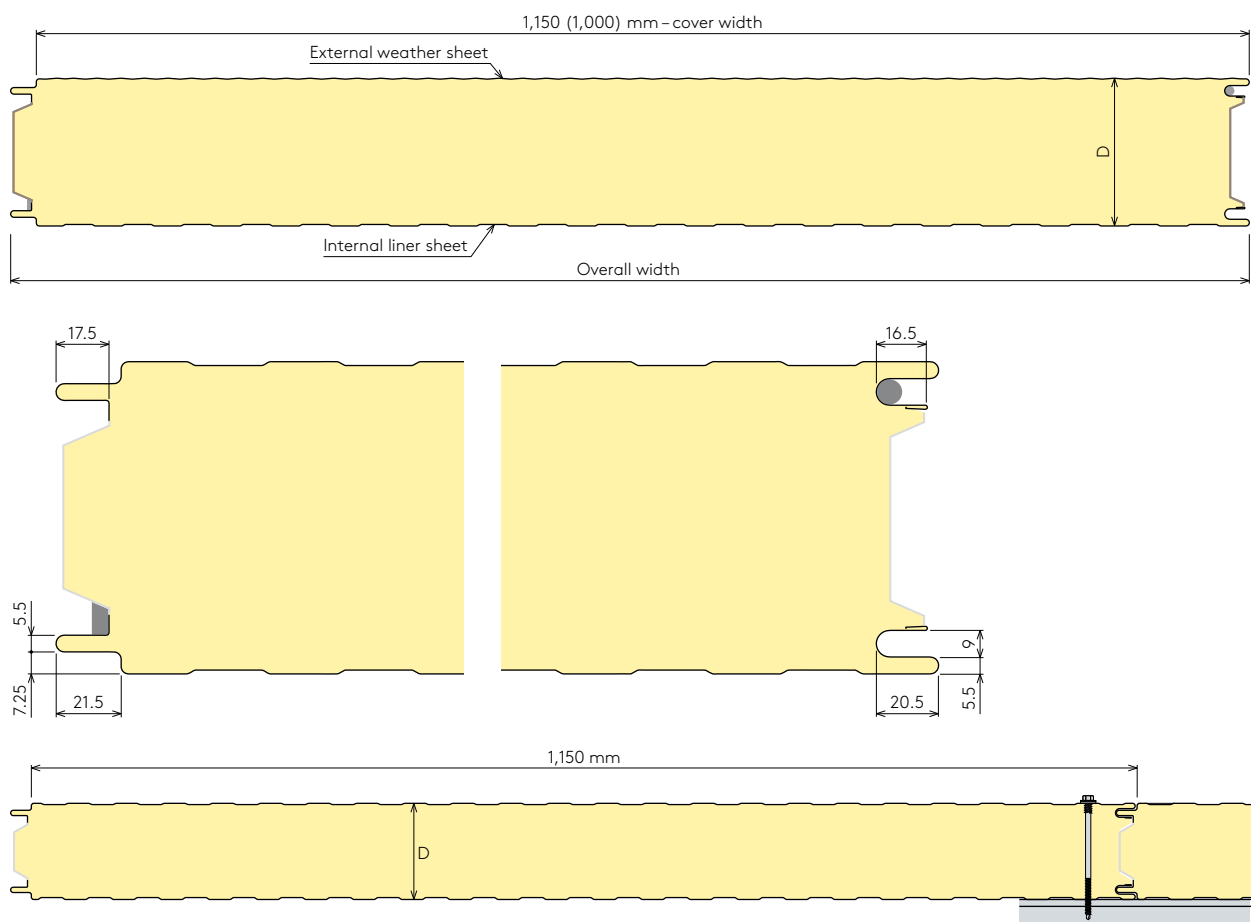
# Technical information

## Description

Hoesch® Thermowand HF is a wall system with visible fixing. It can be used for all types of buildings in both horizontal and vertical design. Hoesch® Thermowand HF is fitted in the factory with a sealing tape.

## Application

- Special joint geometry
- Excellent for use in cold stores and temperature controlled environments
- Easy and fast installation
- Efficient wall solution



## Dimensions, Dead load & Insulation performance

Module [mm]	1,150							
Element thickness [mm]	40	60	80	100	120	150	170	200
Dead load [kg/m <sup>2</sup> ] *	10.2	10.9	11.7	12.5	13.2	14.4	15.1	16.3
U [W/m <sup>2</sup> K] acc. to 14509 incl. joint influence ( $\lambda_D = 0.022$ [W/mK])	0.59	0.38	0.28	0.22	0.18	0.15	0.13	0.11
U [W/m <sup>2</sup> K] acc. to EN ISO 6946 ( $\lambda_D = 0.022$ [W/mK])	0.52	0.35	0.27	0.21	0.18	0.14	0.13	0.11
R <sub>w</sub> [dB]	24	25		26		27		
Standard/Max. production length [m]	13.50/18.00					13.50/14.50		

\* valid for standard steel thickness

## Insulation core

IPN 3

### Sealing tapes

The Hoesch® Thermowand HF is fitted in the factory with a sealing tape, that seals against convection and condensation water.

### Fire protection

In terms of reaction to fire and resistance, Hoesch® Thermowand HF has been tested according to national technical regulations and standards.



#### Reaction to fire

- B-s2,d0 (d: 40 mm) according to EN 13501-1
- B-s1,d0 (d: 60–200 mm) according to EN 13501-1

The insulation core does not contribute to fire transfer and is self-extinguishing.

#### Fire resistance

The current fire resistance classes can be found on the Internet at: [www.hoesch-bau.com](http://www.hoesch-bau.com)

#### FM approval standard

FM 4881 (on request)

### Tolerances

All materials used comply with the technical regulations and standards. Limit dimensions correspond to the tolerance dimensions of DIN EN 14509 – Appendix D.

### Steel

#### Substrate

Surface-treated steel with a Z275 zinc layer as per DIN EN 10346 for the Polyester, Spectrum™, PVDF coating systems.

#### Steel sheet thicknesses

External ( $t_{nom1}$ ) [mm]	Internal ( $t_{nom2}$ ) [mm]
0.60	0.40* 0.50

\* Standard steel sheet thickness

### Technical regulation

The product fulfils the requirements of the European sandwich standard EN 14509:2013 Self-supporting doubleskin metal-faced insulating panels – Factory made products – Specifications.

## Quality

Hoesch® insulated roof & wall systems by Kingspan are manufactured from high quality raw materials under constant quality control in state-of-the-art production facilities. They meet the requirements of ISO 9001:2015 and EN ISO 14001:2015.

## Warranty

Kingspan offers a project-specific warranty on the organic coatings.

## Packaging & transport

The values listed in the table are to be taken as guideline. The values are reduced for exceptionally long delivery lengths. The maximum package height is 1,100 mm. The values in the table relate to element lengths of 8 m.

The maximum weight is approx. 3,000 kg.

Element thickness [mm]	40	60	80	100	120	150	170	200
Number of elements per package	27	23	14	11	9	7	6	5

## Delivery

Elements are delivered directly to the construction site using HGVs, unless something different is agreed. The customer or installer is responsible for unloading, and this must be ensured by the customer.

## Installation

When laying the elements, the “Guideline for planning and implementing roof, wall, and ceiling constructions made from metal profiled sheeting” of the IFBS must be complied with.

## Organic coating systems

### External steel sheets

- Standard Polyester (25 µm) – PES
- Spectrum™ (50 µm)

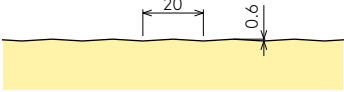

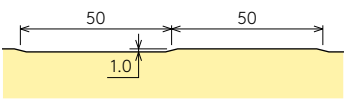

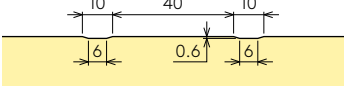

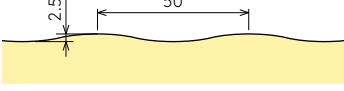
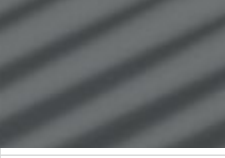
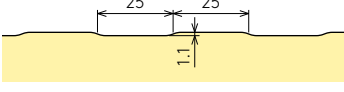

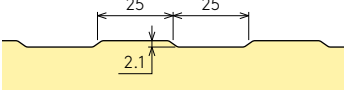

### Internal steel sheets

- Thin film coating (15 µm) – DU (KID)
- Standard Polyester (25 µm) – PES
- Foodsafe (150 µm) – use in food processing operations and buildings with heightened hygienic requirements.

Other coating systems for the outer and inner top coat are available on request. Further information can be found in our brochure on Colors & Coatings brochure.

For details, please also contact the Kingspan-contact person.

## Profiling

	Profiling		External	Internal
M (micro)			✓	
E (euro)			✓	
B (box)			✓	
W (wave)			✓	
Q (minibox)			✓	✓
D (deep minibox)				✓

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For the latest product information, please visit our website: [www.hoesch-bau.com](http://www.hoesch-bau.com)

