

Insulated roof and wall systems
Hoesch®

Hoesch® isorock vario

Product information



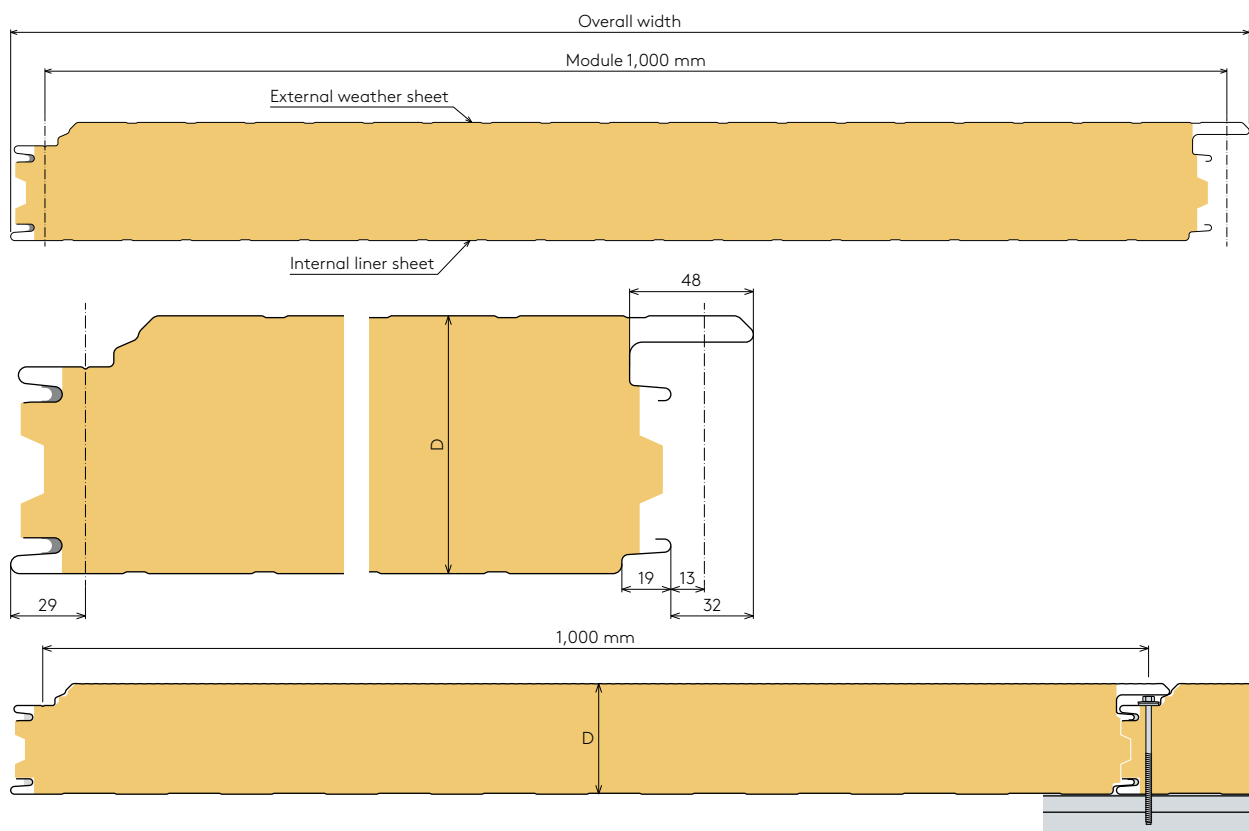
Technical Information

Description

The wall panel system with mineral wool insulation core and secret fixing. It sets new standards for fire protection in façade design.

Application

- Quality product of the Hoesch® brand
- Combines safety and design
- Can be combined with the Hoesch® isowand vario without any problems
- Variety of colours and profiles practical HOESCH micro 8 mm profiling possible
- FM approval class FM 4880 and FM 4881



Dimensions, Dead load & Insulation performance

Module [mm]		1,000						
Element thickness [mm]		80*	100	120	140	150	175	200
Dead load [kg/m²]**	Type S1	19.1	21.1	23.1	25.1	26.1	28.6	31.1
	Type S2	21.8	24.5	27.2	29.9	31.2	34.6	37.9
U [W/m²K] acc. to EN ISO 10211-2	Type S1 ($\lambda_D = 0.043$ [W/mK])	0.53	0.42	0.35	0.30	0.28	0.24	0.21
	Type S2 ($\lambda_D = 0.047$ [W/mK])	0.60	0.47	0.39	0.34	0.31	0.27	0.24
U [W/m²K] acc. to EN ISO 6946	Type S1 ($\lambda_D = 0.043$ [W/mK])	0.48	0.39	0.33	0.28	0.26	0.23	0.20
	Type S2 ($\lambda_D = 0.047$ [W/mK])	0.54	0.44	0.37	0.32	0.30	0.26	0.23
R _v [dB]		32						
Standard/Max. production length [m]		13.50/on request						

* max. production length 9.0 m

** valid for standard cover thickness

Insulation core

K-Roc® Mineral wool

Sealing tapes

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

Fire protection

In terms of reaction to fire, Hoesch® isorock vario has been tested according to national technical regulations and standards.



Reaction to fire

A2-s1,d0 according to EN 13501-1

Fire resistance

The current fire resistance classes can be found on the Internet at: www.hoesch-bau.com

FM approval standard

FM 4880 and FM 4881

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

Type	External (t_{nom1}) [mm]	Internal (t_{nom2}) [mm]
S1	0.75*	0.60*
	0.60	0.75
S2	0.60	0.60*
	0.75*	0.75

* 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

Kingspan insulated roof & wall systems 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]	80	100	120	140	150	175	200
Number of elements per package	14	11	9	7	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.

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 are to be used for concealed fixing. Only these comply with quality guidelines in accordance with the relevant approval, are subject to external monitoring and are the basis for warranty.

Organic coating systems

External steel sheets

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

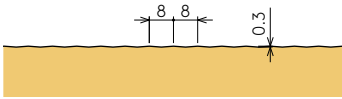

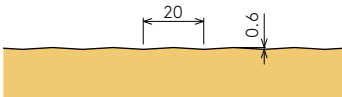

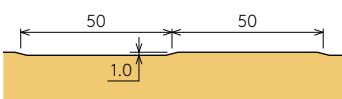

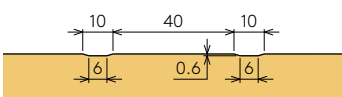
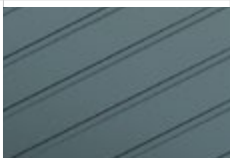
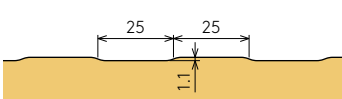
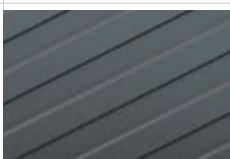


Internal steel sheets

- 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
C (micro Hoesch 8 mm)			✓	
M (micro)			✓	
E (euro)			✓	
B (box)				✓
Q (minibox)			✓	✓
F (flat)			✓	✓

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For the latest product information, please visit our website: www.hoesch-bau.com

