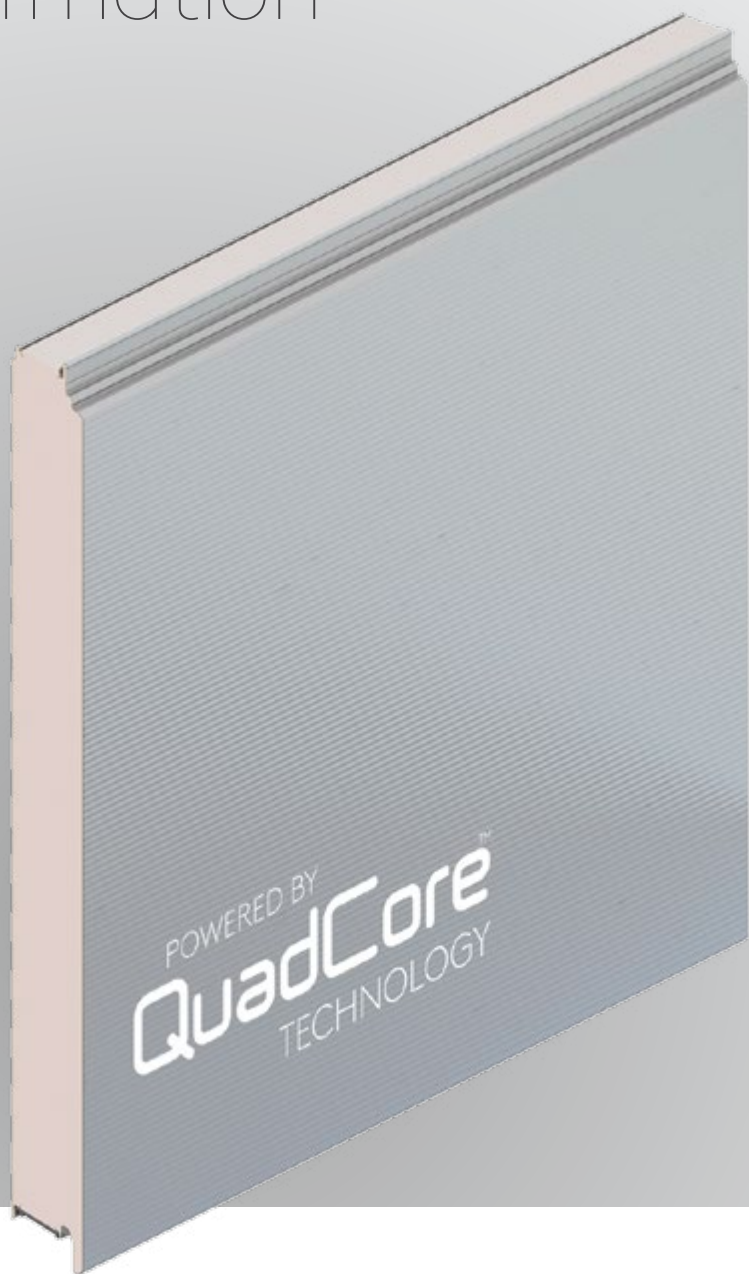


Insulated roof and wall systems
Hoesch®

Hoesch isowand vario®

Product information



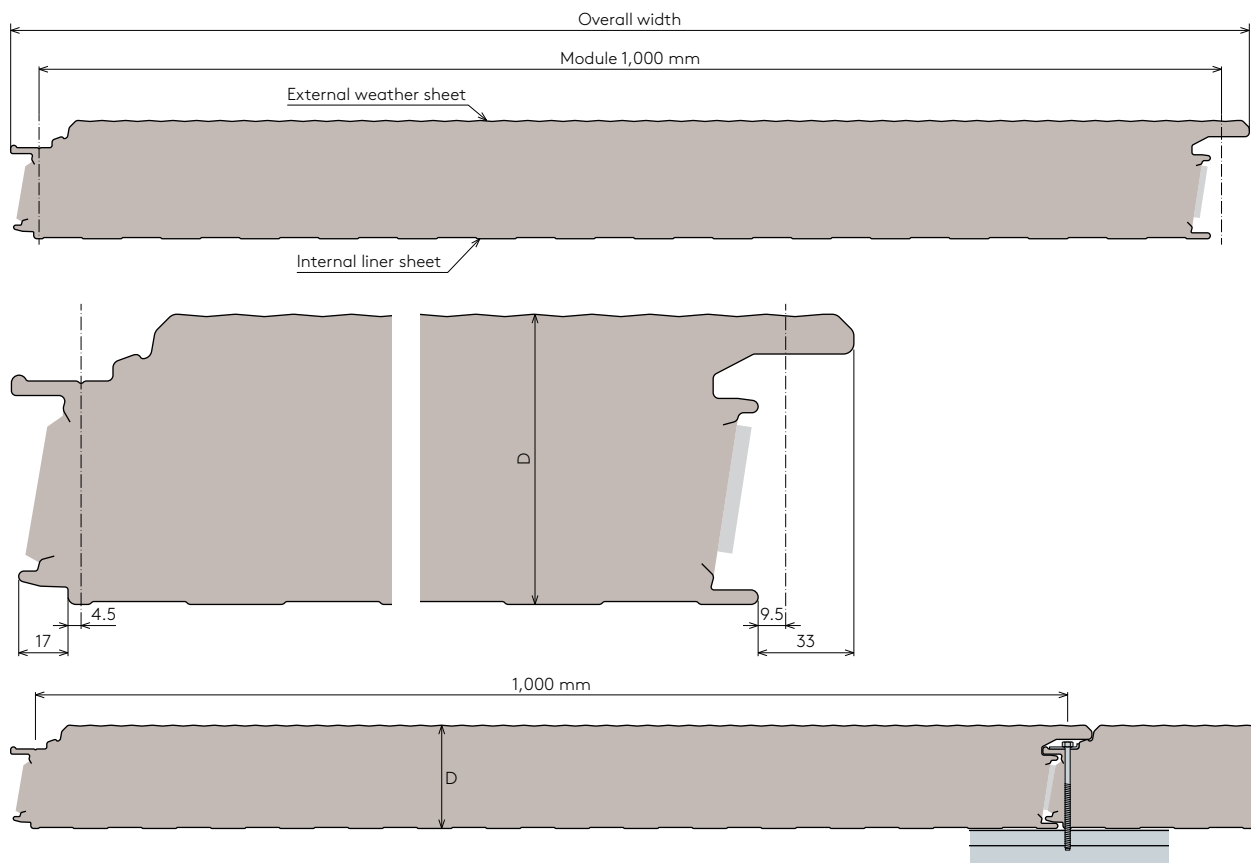
Technical Information

Description

The secret fixed wall element sets special visual accents in proven quality and brings variety to the architectural design. It can be used for all types of building in both horizontal and vertical vertical design.

Application

- Quality product of the Hoesch® brand
- Particularly suitable for the highest design demands
- Available in numerous colours and profiles
- Characteristic HOESCH micro 8 mm profiling possible
- Can be combined with the Hoesch® isorock vario without any problems
- Precisely fitting system accessories available for flawless designs



Dimensions, Dead load & Insulation performance

Module [mm]	1,000				
Element thickness [mm]	60	80	100	120	140
Dead load [kg/m ²] (for $t_{nom1} = 0.60$ mm and $t_{nom2} = 0.50$ mm)	12.1	12.9	13.6	14.4	15.1
U [W/m ² K] acc. to 14509 incl. joint influence ($\lambda_D = 0,019$ [W/mK])	0.38	0.26	0.20	0.16	0.14
U [W/m ² K] acc. to EN ISO 6946 ($\lambda_D = 0,019$ [W/mK])	0.31	0.23	0.19	0.16	0.13
R _w [dB]	25				
Standard/Max. production length [m]	13,50/15,00				

Insulation core

QuadCore® 1

Sealing tapes

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

Fire protection

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

Reaction to fire

B-s2,d0 according to EN 13501-1

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

FM approval standard

FM 4880, 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

External (t_{nom1}) [mm]	Internal (t_{nom2}) [mm]
0.50	0.50
0.60*	
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]	60	80	100	120	140
Number of elements per package	18	13	11	9	7

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.

Profilings

	Profiling		External	Internal
C (micro Hoesch 8 mm)			✓	
M (micro)			✓	
L (47 mm)			✓	
Q (minibox)			✓	✓
F (flat)			✓	✓

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