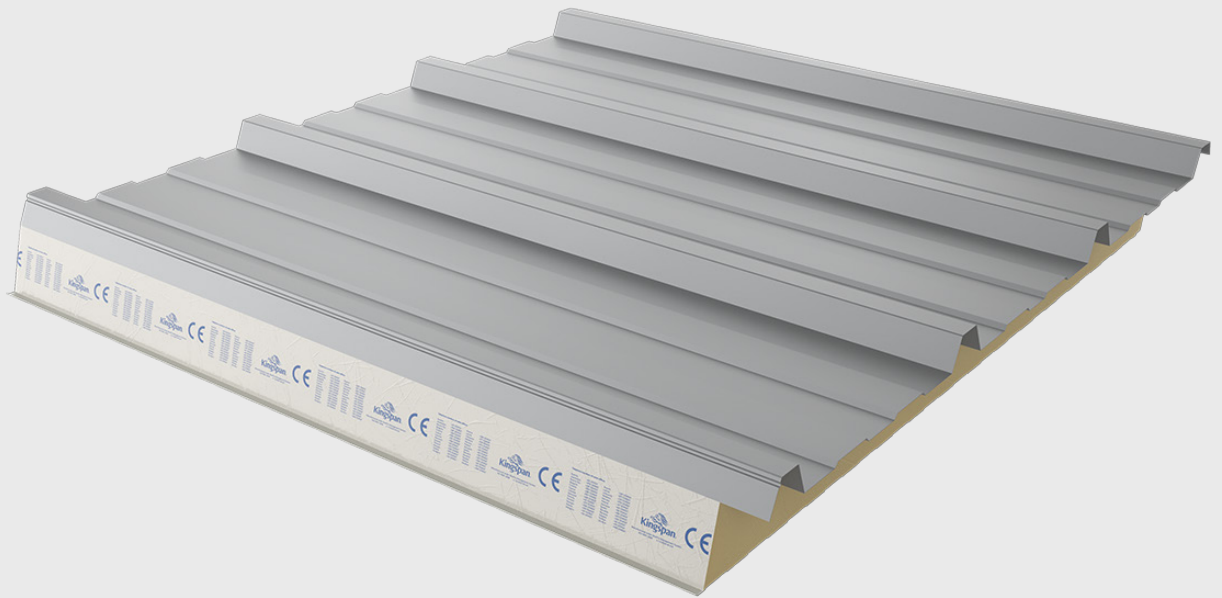


Insulated Panels
CEME Division

Hoesch® isodach RD Roof Panel

Product Data Sheet

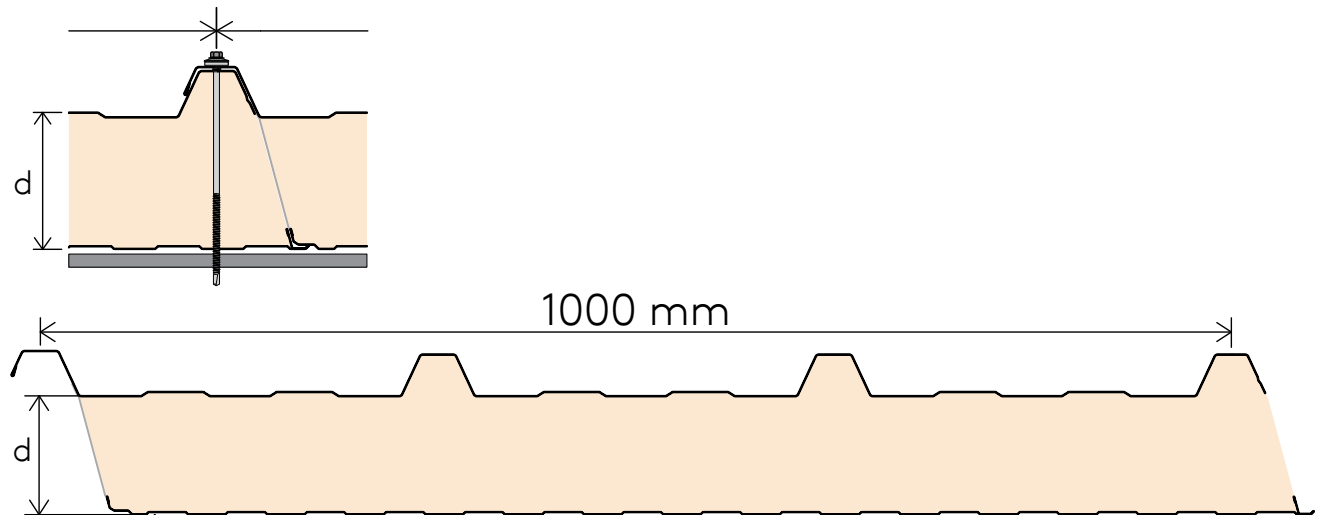


Application

The Hoesch® isodach RD Roof Panel is a trapezoidal profiled roof panel with visible fixing. It is available in a construction width of 1,000 mm and in element thicknesses of 25 - 120 mm. Thanks to the high degree of prefabrication, it enables quick and easy assembly. For pitched roofs with a roof pitch of:

- at least 3 ° (4 ° recommended) without the formation of transverse joints
- at least 5 ° with the formation of transverse joints

Panel Cross Section



Technical Parameters

The Hoesch® isodach RD Roof 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 $R_w(C;C_v)$	Weighted Sound Absorption Coefficient [α_w]
1,000/1,000	25	9.03	0.80	0.80	24 (-2; -3) dB	NPD
	40	9.63	0.53	0.53	24 (-2; -3) dB	NPD
	60	10.43	0.37	0.36	25 (-3; -4) dB	NPD
	80	11.23	0.28	0.28	25 (-3; -4) dB	NPD
	100	12.03	0.23	0.23	25 (-2; -4) dB	NPD
	120	12.83	0.19	0.19	26 (-3; -4) dB	NPD

The technical data is valid for a face thickness of Ext / Int. 0.50 / 0.40 mm.

Fire Performance

The Hoesch® isodach RD Roof Panel has been tested in accordance with EN 14509:2013 and approved by the DIBt in Germany. The product meets the criteria of hard roofing and the criteria of Broof (t1) in accordance with EU ABL 244 of 7.9.2006. Product

specifications relating to fire classification are available from Kingspan technical support.

Module width/Cover width [mm]	Core Thickness [mm]	Reaction to Fire	Fire Resistance - External Wall - Horizontal	Fire Resistance - External Wall - Vertical	Fire Resistance - Roof
1,000/1,000	25	B-s2, d0	N/A	N/A	NPD
	40	B-s2, d0	N/A	N/A	NPD
	60	B-s2, d0	N/A	N/A	• RE 30/REI 20
	80	B-s2, d0	N/A	N/A	• RE 30/REI 20
	100	B-s2, d0	N/A	N/A	• RE 30/REI 20 • RE 60 ¹ /REI 30 ¹
	120	B-s2, d0	N/A	N/A	• RE 30/REI 20 • RE 60 ¹ /REI 30 ¹

¹ See details in technical guide and assembly conditions.

Dimensions

Length

Shorter lengths (non-standard) [mm]	270-1999
Standard lengths [mm]	2000-22500
Longer lengths (non-standard)	

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

Width

The standard module width is 1,000 mm and cover width 1,000 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) insulation core with a Thermal Conductivity (λ_p) of 0.024 W/m·K according to EN 14509:2013.

External facing

The standard thicknesses of the coil coated steel sheet are 0.50 mm. On request also 0.60 mm steel sheet thicknesses available. Standard coating: Polyester (25 µm) – PES. Optional: Spectrum™ (50 µm).

Internal facing

The standard thicknesses of the coil coated steel sheet are 0.40 mm. On request also 0.50 mm steel sheet thicknesses available. Standard coating: Thin film coating (15 µm). Optional: Polyester (25 µm) – PES.

Seals

In longitudinally and in the overlapping upper belt, the Hoesch® isodach RD Roof Panel is fitted in the factory with a high-quality sealing tape that seals against convection and condensation water.

Profiles

The available profilings can be found in the corresponding profiling 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® isodach RD Roof Panel is CE marked to EN 14509:2013.

Packing

Standard Packing - Road Transportation

Hoesch® isodach RD Roof 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]	25	40	60	80	100	120
Number of Panels	24/22/18/14	18/14	14/12	10	8	7

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
T - Trapez profiling		
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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