

Insulated Panels  
CEME Division

# Hoesch® vario QT QuadCore® Wall Panel Product Data Sheet



POWERED BY  
**QuadCore®**  
TECHNOLOGY

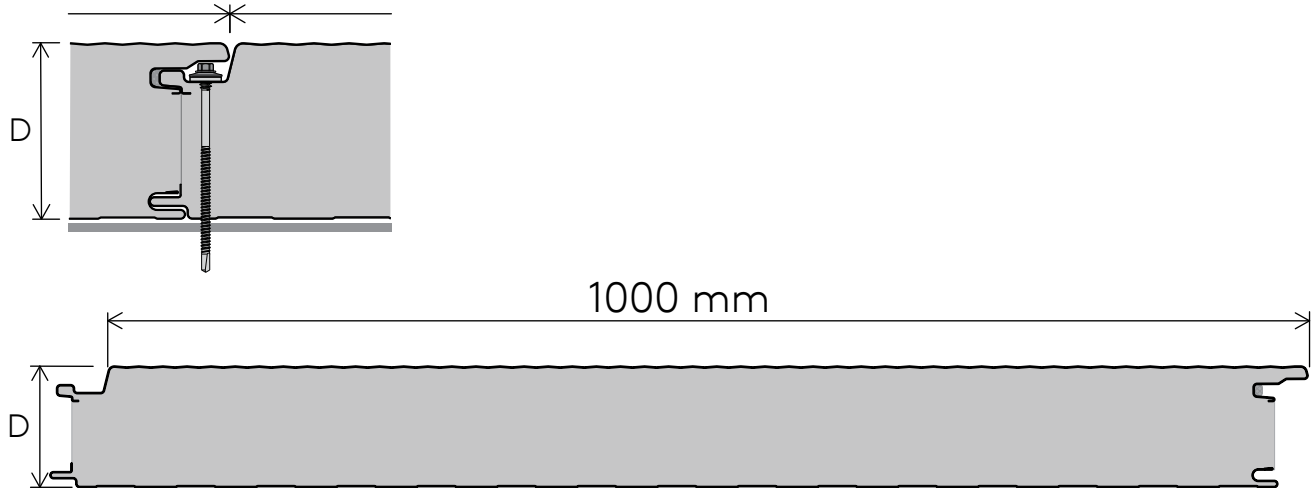


## Application

Hoesch® vario QT QuadCore® Wall Panel can be installed vertically or horizontally as an external wall in all types of buildings with internal temperatures above 0°C. Particularly in those buildings where high aesthetics and thermal insulation is required.

Each application should be verified against individual project requirements.

## Panel Cross Section



## Technical Parameters

| Module width/Cover width [mm] | Core Thickness [mm] | Mass [kg/m²] | Thermal Transmittance (U-value) acc. EN 14509:2013 [W/m².K] | Airborne Sound Insulation $R_w(C;C_{tr})$ | Weighted Sound Absorption Coefficient [ $\alpha_w$ ] | GWP for modules A1-A3 [kg CO2-eq./m²] | GWP for modules A-C [kg CO2-eq./m²] |
|-------------------------------|---------------------|--------------|-------------------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------------|-------------------------------------|
| 1,000/1,000                   | 60                  | 11.18        | 0.37                                                        | 25 (-3; -4) dB                            | NPD                                                  | 28.9                                  | 33.7                                |
|                               | 80                  | 11.94        | 0.25                                                        | 25 (-3; -4) dB                            | NPD                                                  | 31.1                                  | 37.2                                |
|                               | 100                 | 12.7         | 0.20                                                        | 25 (-3; -4) dB                            | NPD                                                  | 35.2                                  | 42.8                                |
|                               | 120                 | 13.46        | 0.16                                                        | 25 (-3; -4) dB                            | NPD                                                  | 35.4                                  | 44.2                                |
|                               | 150                 | 14.6         | 0.13                                                        | 25 (-3; -4) dB                            | NPD                                                  | 38.7                                  | 49.5                                |
|                               | 170                 | 15.36        | 0.11                                                        | 25 (-3; -5) dB                            | NPD                                                  | 40.3                                  | 52.3                                |

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

## Fire Performance

Hoesch® vario QT QuadCore® 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 in the [FM Approval Guide](#) and 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                                                                                        |
|-------------------------------|---------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1,000/1,000                   | 60                  | B-s1, d0         | NPD                                                                                                                                                                                       | NPD                                                                                                                               |
|                               | 80                  | B-s1, d0         | NPD                                                                                                                                                                                       | NPD                                                                                                                               |
|                               | 100                 | B-s1, d0         | • EI 20-ef (o→i) <sup>1</sup> /EW 20-ef (o→i) <sup>1</sup> - 4m                                                                                                                           | • EI 20 (i→o) <sup>1</sup> /EW 20 (i→o) <sup>1</sup> - 4m<br>• EI 20-ef (o→i) <sup>1</sup> /EW 30-ef (o→i) <sup>1</sup> - 4m      |
|                               | 120                 | B-s1, d0         | • EI 20-ef (o→i) <sup>1</sup> /EW 20-ef (o→i) <sup>1</sup> - 4m                                                                                                                           | • EI 20 (i→o) <sup>1</sup> /EW 20 (i→o) <sup>1</sup> - 4m<br>• EI 20-ef (o→i) <sup>1</sup> /EW 30-ef (o→i) <sup>1</sup> - 4m      |
|                               | 150                 | B-s1, d0         | • EI 20 (i→o) <sup>1</sup> /EW 20 (i→o) <sup>1</sup> - 4m<br>• EI 30 (i→o) <sup>1</sup> /EW 30 (i→o) <sup>1</sup> - 4m<br>• EI 60-ef (o→i) <sup>1</sup> /EW 60-ef (o→i) <sup>1</sup> - 4m | • EI 30 (i→o) <sup>1</sup> / ; EW 45 (i→o) <sup>1,3</sup> - 4m<br>• EI 60-ef (o→i) <sup>1</sup> /EW 60-ef (o→i) <sup>1</sup> - 4m |
|                               | 170                 | B-s1, d0         | • EI 20 (i→o) <sup>1</sup> /EW 20 (i→o) <sup>1</sup> - 4m<br>• EI 30 (i→o) <sup>1</sup> /EW 30 (i→o) <sup>1</sup> - 4m<br>• EI 60-ef (o→i) <sup>1</sup> /EW 60-ef (o→i) <sup>1</sup> - 4m | • EI 30 (i→o) <sup>1</sup> / ; EW 45 (i→o) <sup>1,3</sup> - 4m<br>• EI 60-ef (o→i) <sup>1</sup> /EW 60-ef (o→i) <sup>1</sup> - 4m |

<sup>1</sup> See details in the relevant classification reports and/or in technical documentation available on request.

<sup>3</sup> Class is not defined in standard EN 13501-2 for this application, but the product meets its criteria.

## Dimensions

### Length

|                                        |            |
|----------------------------------------|------------|
| Shorter lengths (non-standard)<br>[mm] | 550-2499   |
| Standard lengths<br>[mm]               | 2500-15000 |
| Longer lengths (non-standard)          |            |

Additional costs and transport restrictions may apply for non-standard lengths.

### Width

The standard module width is 1000 mm and cover width 1000 mm.

## Product Tolerances

Product tolerances are measured according to the standard EN 14509:2013.

|                                            |            |                       |
|--------------------------------------------|------------|-----------------------|
| 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<br>(on length) |            | 1mm/m, maximum 5 mm/m |

## Materials

### Insulation Core

QuadCore® Technology insulation core with a Thermal Conductivity (λ) 0.019 W/m·K according to EN 14509:2013.

### External facing

The standard thicknesses of the coil coated steel sheet is 0.60 mm.

On request also other steel sheet thicknesses are available.

Available coatings: Spectrum®, PVDF, PES25.

### Internal facing

The standard thicknesses of the coil coated steel sheet is 0.40 mm.

On request also other steel sheet thicknesses are available.

Available coatings: PEI15, PES25.

### Seals

Factory applied side joint seals. Side joints have a factory applied seal fitted into the groove to automatically seal the joint between panels.

## Profiles

The available profiles can be found in the corresponding profile table.

## Colours

The available colours can be found in the "Colour Guide" brochure.

## Mechanical Resistance

For load / span tables, please refer to the "Technical Guide" brochure or contact Kingspan Technical Support.

## Environmental Performance

Facilities located in Lipsko 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.

Hoesch® vario QT QuadCore® Wall Panel has Environmental Product Declarations in accordance with the requirements of EN 15804:2012+A2:2019/AC:2021.

## 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.

Hoesch® vario QT QuadCore® Wall Panel is CE marked to EN 14509:2013.

## Packing

### Standard Packing - Road Transportation

Hoesch® vario QT QuadCore® Wall Panel is stacked weather side to internal side. The top, bottom, sides and ends are protected with foam and timber 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<br>[mm] | 60 | 80    | 100   | 120  | 150 | 170 |
| Number of Panels       | 12 | 14/15 | 11/12 | 9/10 | 7/8 | 6/7 |

## Delivery

All deliveries are by road transport to a project site unless otherwise indicated. Unloading is the responsibility of the customer.

## 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 the respective brochure or contact Kingspan Technical Support.

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## Warranty

Kingspan warranties are assessed individually for each project, depending in particular on the aggressiveness of the environment and the type of surface treatment chosen.

## Profiles

| Profile     | External                                                                          | Internal                                                                             |
|-------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| E - Eurobox |  |                                                                                      |
| F - Flat    |  |    |
| M - Micro   |  |                                                                                      |
| W - Wave    |  |                                                                                      |
| D - Deep    |                                                                                   |   |
| Q - Minibox |                                                                                   |  |

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# 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](http://www.hoesch-bau.com)

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