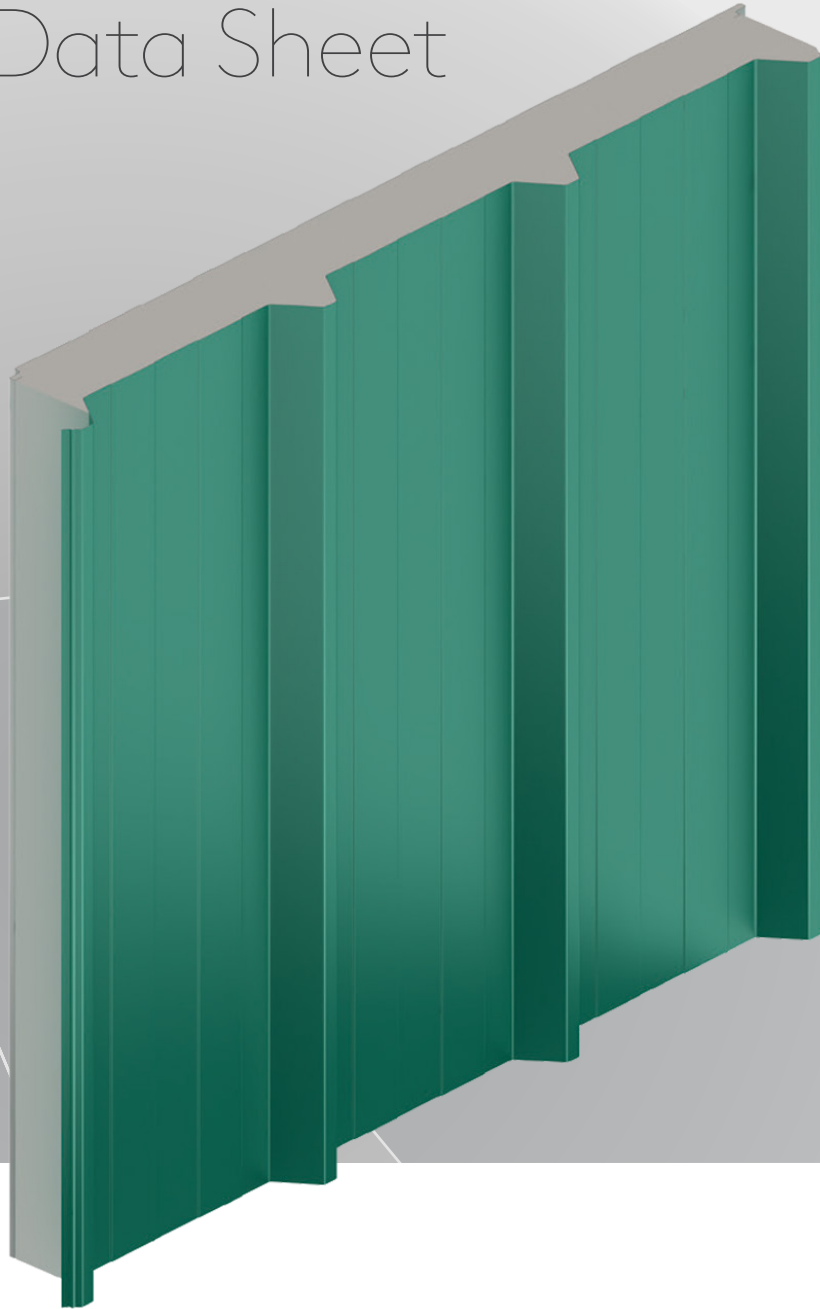


Insulated Panels  
Central Asia and Türkiye

# QuadCore™ KS100PRW Wall Panel

## Product Data Sheet



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**QuadCore**  
TECHNOLOGY

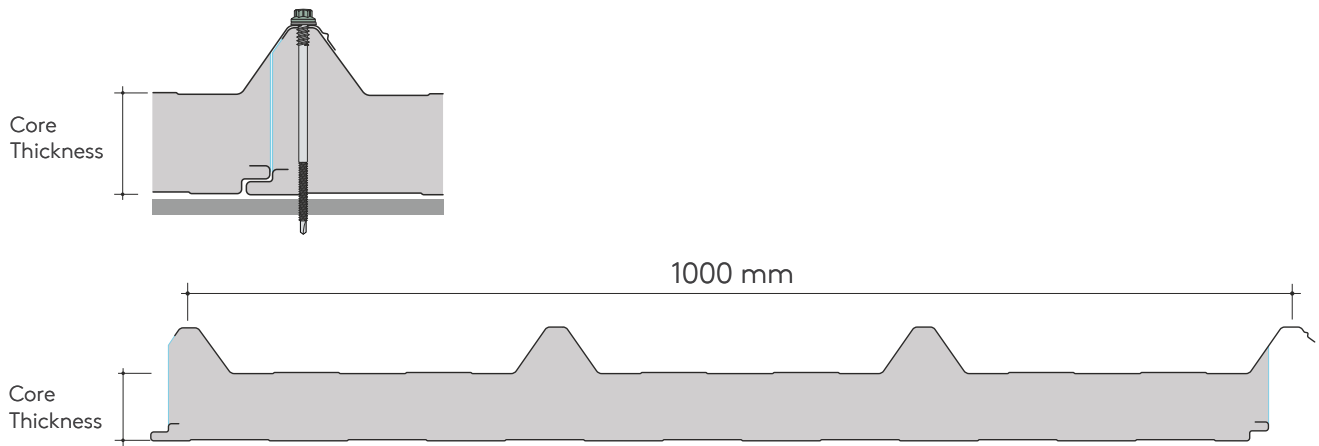
  
**Kingspan**

## Application

The QuadCore™ KS100PRW Wall Panel is a trapezoidal, through-fix insulated panel system designed for external wall applications. It can be installed vertically or horizontally to meet different architectural and project requirements.

Each application should be verified against individual project requirements.

## Panel Cross Section



## Technical Parameters

Thermal Transmittance (U-Value), calculated by using Finite Element Analysis in accordance with EN 14509: 2013 taking into account the profile geometry of the panel and the thermal influence of the longitudinal joint.

| Module width / Cover width [mm] | Core Thickness [mm] | Mass [kg/m <sup>2</sup> ] | Thermal Transmittance (U-value) acc. EN 14509:2013 [W/m <sup>2</sup> .K] | R [m <sup>2</sup> K/W] Thermal Resistance as per EN 14509:2013 with effect of joint [m <sup>2</sup> .K/W] | Airborne Sound Insulation R <sub>w</sub> (C;C <sub>tr</sub> ) | Weighted Sound Absorption Coefficient [α <sub>w</sub> ] | FM Approval          |
|---------------------------------|---------------------|---------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|----------------------|
| 1,000/1,000                     | 40                  | 10.39                     | 0.50                                                                     | 2.00                                                                                                      | NPD                                                           | NPD                                                     | 4880/4881/4882 /4471 |
|                                 | 50                  | 10.81                     | 0.40                                                                     | 2.50                                                                                                      | NPD                                                           | NPD                                                     | 4880/4881/4882 /4471 |
|                                 | 60                  | 11.11                     | 0.33                                                                     | 3.03                                                                                                      | NPD                                                           | NPD                                                     | 4880/4881/4882 /4471 |
|                                 | 80                  | 11.91                     | 0.25                                                                     | 4.00                                                                                                      | NPD                                                           | NPD                                                     | 4880/4881/4882 /4471 |
|                                 | 100                 | 12.71                     | 0.20                                                                     | 5.00                                                                                                      | NPD                                                           | NPD                                                     | 4880/4881/4882 /4471 |
|                                 | 120                 | 13.51                     | 0.17                                                                     | 5.88                                                                                                      | NPD                                                           | NPD                                                     | 4880/4881/4882 /4471 |
|                                 | 150                 | 14.71                     | 0.13                                                                     | 7.69                                                                                                      | NPD                                                           | NPD                                                     | 4880/4881/4882 /4471 |

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

Panels with galvanized steel or stainless steel facers have undergone extensive testing, and FM Approvals certification encompasses core thicknesses of 40 to 200 mm (valid for a minimum facer gauge of Ext / Int: 0.47 / 0.47 mm).

For the description and scope of these classes, see the note below:

FM 4880: Attaining a Class 1 fire rating for building panels or interior finish materials.

FM 4881: Certifying Class 1 exterior wall systems.

FM 4882: Confirming Class 1 interior wall panels suitable for environments sensitive to smoke.

FM 4471: Certification standard for Class 1 Panel Roofs (evaluating wind uplift resistance, structural integrity, and environmental performance such as hail resistance).

## Fire Performance

The QuadCore™ KS100PRW Wall Panel has been tested and approved to comply with EN 14509:2013.

The reaction-to-fire classification according to EN 13501-1:2018 is presented in the below data table.

| 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                   | 40                  | B-s2, d0         | NPD                                          | NPD                                        |
|                               | 50                  | B-s2, d0         | NPD                                          | NPD                                        |
|                               | 60                  | B-s2, d0         | NPD                                          | NPD                                        |
|                               | 80                  | B-s1, d0         | NPD                                          | NPD                                        |
|                               | 100                 | B-s1, d0         | NPD                                          | NPD                                        |
|                               | 120                 | B-s1, d0         | NPD                                          | NPD                                        |
|                               | 150                 | B-s1, d0         | NPD                                          | NPD                                        |

Classification reports available on request.

## Dimensions

### Length

|                                     |             |
|-------------------------------------|-------------|
| Shorter lengths (non-standard) [mm] | 500-2199    |
| Standard lengths [mm]               | 2200-18000  |
| Longer lengths (non-standard) [mm]  | 18001-20000 |

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

### Width

Standard cover width: 1,000 mm.

Standard module width: 1,000 mm.

## Product Tolerances

All product tolerances are in compliance with 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 (on length) |            | 1mm/m, maximum 5 mm/m |

## Materials

### Insulation Core

QuadCore™ Technology insulation core with a thermal conductivity ( $\lambda$ ) of 0.020 according to EN 14509:2013.

### External facing

The standard thickness of the coil coated steel sheet is Trapezoidal: 0.45–0.70 mm.

Standard coating: Polyester and PVDF.

### Internal facing

The standard thickness range of the coil coated steel sheet:

Box: 0.40–0.70 mm.

Standard coating: Polyester.

### Seals

Site applied joint sealants are the responsibility of the installer.

### Profiles

Available profiles are shown in the Profiles section.

### Colours

External colours are available in a wide variety of metallic, matte, and solid finishes. For guidance on selecting the most suitable colours for your project, please contact Kingspan Technical Support.

## Mechanical Resistance

For latest load / span tables, contact Kingspan Technical Support.

## Environmental Performance

We ensure that our products are free from CFC, HCFC, HFC, and Halogenated Fire Retardants.

Kingspan Insulated Panels are manufactured in facilities certified to the ISO 14001 Environmental management system (EMS) standard.

## Production Standard

Kingspan Insulated Panels complies with the requirements of EN 14509:2013 Self-supporting double skin metal faced insulating panels.

## Quality

Kingspan insulated panels are manufactured in compliance with the ISO 9001:2015 quality management system standard. The manufacturing process is also certified to ISO 14001:2015 for environmental management and ISO 45001:2018 for occupational health and safety management.

## Packing

### Standard Packing - Road Transportation

QuadCore™ KS100PRW Wall Panels are stacked with the external surface facing inward. The top, bottom, side, and end faces of each bundle are protected with cardboard or polystyrene protectors, and the entire pallet is wrapped with protective stretch film. The number of panels in a pack depends on panel thickness and length. Quantities are reduced for exceptionally long panels.

Protective film on the panels should be removed within a maximum of two months of the production date.

| Core Thickness<br>[mm] | 40 | 50 | 60 | 80 | 100 | 120 | 150 |
|------------------------|----|----|----|----|-----|-----|-----|
| Number of Panels       | 11 | 9  | 8  | 10 | 8   | 7   | 6   |

## Delivery

All deliveries, unless indicated otherwise, are by road transport to a project site. Off-loading is the responsibility of the recipient.

### Sea Freight

Full timber crated packs are available at additional cost for

projects requiring sea freight delivery. Alternatively, steel containers can be used. Special loading charges apply.

## Site Storage & Installation

The responsibility for unloading the goods lies with the recipient. The goods must not be dropped or thrown from the vehicle and should not be stacked on uneven surfaces.

During unloading, care must be taken to protect the goods from damage and to ensure the safety of personnel on site.

Manual unloading is not recommended. Appropriate lifting equipment, such as a forklift truck or crane fitted with a spreader beam, should be used to prevent excessive pressure on the product, which may result in delamination, joint damage, or surface irregularities.

Please contact Kingspan to obtain guidelines for the safe transportation, unloading and on-site handling of products supplied by Kingspan.

## Warranty

Kingspan warranties are assessed individually for each project, depending on the environmental conditions and the selected surface treatment.

# Profiles

| Profile | Internal                                                                          |
|---------|-----------------------------------------------------------------------------------|
| B - Box |  |

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# Contact Details

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