

Insulated Panels
UK & Ireland

Protected by



K-Roc™ AWP Wall Panel

Product Data Sheet



Product Data



Applications

K-Roc™ AWP Wall Panel is an architectural insulated sandwich panel that delivers an aesthetically appealing building solution. Panels are suitable for façades with specific fire and acoustic performances.

K-Roc™ AWP Wall Panels feature a Micro-Rib profile with a secret-fix interlocking 5 mm joint.

Panels can be installed vertically or horizontally across the building façade.

Available Lengths

Lengths are subject to verification for fire / structural performance.

Standard Lengths (m)	1.8 - 12.5
Shorter Lengths (non-standard) (m)	Below 1.8

Note: Additional costs and transport restrictions may apply for non-standard lengths. All lengths may change for export (outside of the UK).

Dimensions, Weight & Thermal Performance

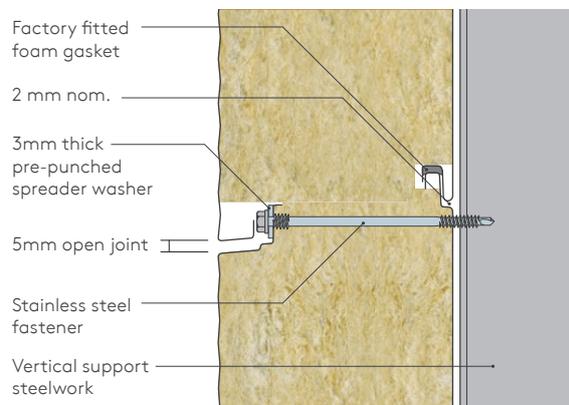
Core Thickness (mm)	75	100	125	150	175	200	240	300
U-Value (W/m²K)	0.53	0.41	0.33	0.28	0.24	0.21	0.18	0.14
Weight (kg/m²) 0.7 mm / 0.5 mm steel	18.0	20.9	23.8	26.7	29.5	32.4	37.0	43.9
Weight (kg/m²) 0.7 mm / 0.7 mm steel	19.3	22.2	25.1	27.9	30.8	33.7	38.3	45.2

Insulation Core

K-Roc™ AWP Wall Panels are manufactured with a 115 kg/m³ density stone wool insulation core.



Panel Joint



Product Data

Profiles

External Profile: Micro-Rib.

Internal Profiles: Flat.



* 1000 mm maximum width for export using shipping containers.

Certification and Testing

Reaction to Fire

K-Roc™ AWP Wall Panels are classified A2-s1,d0, when tested on the external face of the product, according to the European Reaction to Fire classification system (Euroclasses) EN 13501-1: 2018 and specified with Colorcoat Prisma® by Tata Steel.

Please contact Kingspan Tech-eXchange for information relating to the internal face.

Fire Resistance

Fire resistance classifications are subject to panel thickness, orientation, method of assembly, and steel coating. Please contact Kingspan Tech-eXchange for project specific details.

Environmental

Kingspan Insulated Panels produced in the UK are certified to BES 6001 (Framework Standard for the Responsible Sourcing of Construction Products) 'Good'.

Air Leakage

An air leakage rate of $3\text{m}^3/\text{hr}/\text{m}^2$ at 50Pa or less can be achieved when using Kingspan insulated roof and wall panels.

For information on detailing required to achieve lower air leakage rates please contact Kingspan Tech-eXchange.

Acoustic

Specific acoustic performance information can be provided by the Kingspan Tech-eXchange on a project-by-project basis.

Load / Span

Specific span performance information can be provided by the Kingspan Tech-eXchange on a project-by-project basis.

Materials

Substrate

Metallic protected steel to BS EN 10346: 2015.

Please contact Kingspan Tech-eXchange for information on other substrates.

Coatings – External Weather Sheet

0.7 mm external steel face, in a range of coatings and colours.

- Colorcoat Prisma®: 3 layer coating technology with a smooth external finish.

For Reaction to Fire performance of panel with above external coating please see Certification and Testing section.

Coatings – Internal Liner Sheet

0.5 mm or 0.7 mm internal steel face, in a range of coatings and colours.

- Colorcoat PE 25: The coating has been developed for use as the internal lining of insulated panels in non-aggressive environments. Standard colour is RAL 9010 White with an easily cleaned surface.
- Kingspan CLEANsafe 25: The coating has been developed for use as the internal lining of insulated panels.
- Advantica® L Control: The coating has been developed for use as the internal lining of insulated panels where a high level of cleanliness and hygiene is required, and the panels are to be cleaned down on a regular basis.
- Colorcoat Prisma®: The coating has been developed for use as the internal lining of insulated panels to high humidity internal environments.

For Reaction to Fire performance of above internal liners please contact Kingspan Tech-eXchange.

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Product Tolerances

In accordance with EN 14509: 2013.

Length (≤ 3 m)	± 5 mm
Length (> 3 m)	± 10 mm
Width	± 2 mm
Thickness	± 2 mm
Facing Squareness	± 2 mm
Corners (leg length)	± 3 mm
Flatness	± 1.5 mm from theoretical flat plane over a distance of 700 mm
Joint Gap	± 2 mm

Seals

Factory applied side joint seals. All side joints have factory applied seals fitted into the grooves to automatically seal the joint between panels.

Quality & Durability

K-Roc™ AWP Wall Panels are manufactured from the highest quality materials, using state of the art production equipment to rigorous quality control standards, complying with BS EN ISO 9001 standard, ensuring long term reliability and service life. The panels are also being manufactured under Environmental Management System Certification BS EN ISO 14001, Energy Management System Certification BS EN ISO 50001, Occupational Health and Safety Certification BS EN ISO 45001 and Compliance Management Systems BS EN ISO 37301.

Warranty

Kingspan Panel Warranty covering the following subject to project specific information:

- Up to 25 year structural.
- Up to 25 year external coating.

Packing

K-Roc™ AWP Wall Panels are stacked with weather sheet upward. Removable protective film is applied to both panel faces. The top, bottom and sides are protected with polystyrene and timber packing and the entire pack is wrapped in polythene. The number of panels in each pack depends on panel thickness/length, however the table below outlines the maximum number of panels per pack.

Core Thickness (mm)	75	100	125	150	175	200	240	300
No. of Panels per Pack	12	11	8	7	6	5	4	3

Note: Applies to UK pack sizes. Please contact Kingspan Tech-eXchange for export information.

Sea Freight

Fully timber crated packs are available on projects requiring delivery by sea freight shipping, at additional costs. Alternatively, steel containers can be used. Special loading charges apply.

Delivery

All deliveries (unless indicated otherwise) are by road transport to project site. Off-loading is the responsibility of the client.

Site Installation Procedure

Site assembly instructions and construction details are available from Kingspan Tech-eXchange.

Contact Details

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