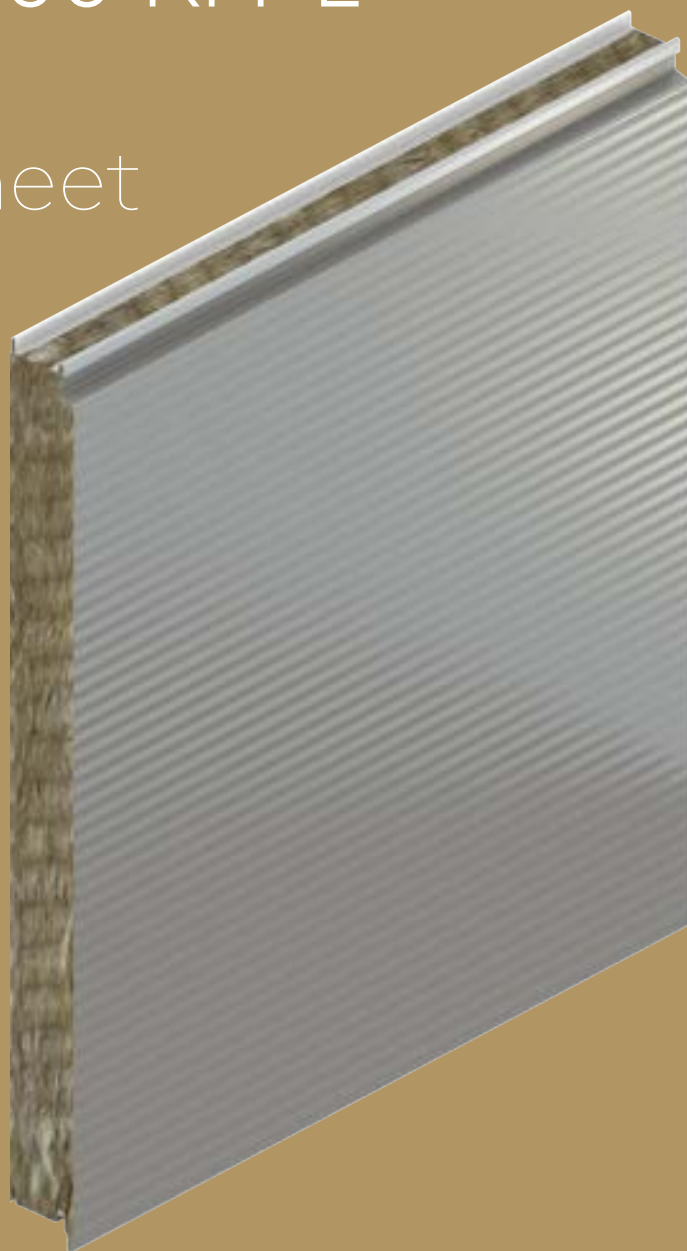


Insulated Panels
Hungary

Kingspan KS1000 RH-L

Wall panel

Product datasheet



Product Data

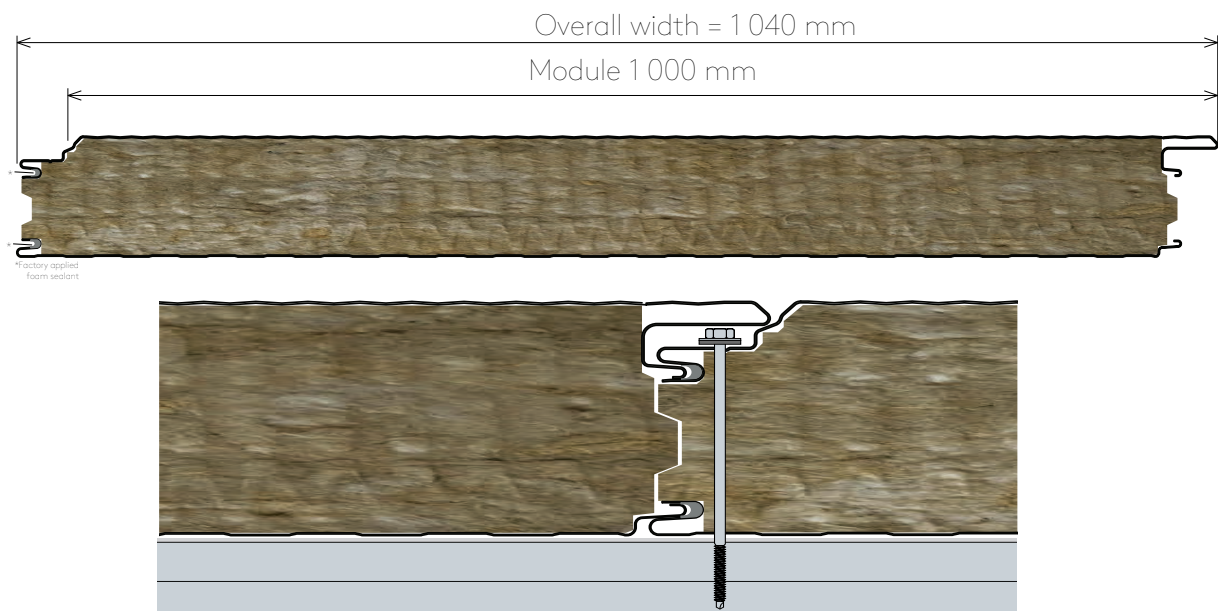
Application

The KS1000 RH-L is a concealed fixing wall system which can be laid vertically or horizontally and is suitable for wall claddings on all types of buildings except where there are low internal temperature conditions (below 0 °C).

The application of panel should be verified for each project individually in order to meet the design requirements.



Dimensions



Technical parameters

Width [mm]	Core thickness D [mm]	Weight [kg/m²]	Length of the panels [m]		Number of panels in package [pcs]	Insulation U-value [W/m²K] $\lambda = 0,044 \text{ W/mK}$ at temp. 10°C	Single figure weighted sound reduction R_w [dB]
		Thickness of steel facings external/internal 0,6 mm/0,5 mm	Minimum ⁽¹⁾	Maximum			
1 000	80	18,80	2,00	9,00	13	0,55	NPD
	100	21,10		16,00 ⁽²⁾	10	0,44	
	120	23,40			8	0,36	
	150	26,90			6	0,29	
	175	29,80			6	0,25	
	200	32,60			5	0,22	

⁽¹⁾ At the request of the ordering party (for an additional fee) it is possible to deliver shorter panels. In other cases short sections are combined in length, meeting the production requirements.

⁽²⁾ Max recommended length 9,0m. For longer panels there is a risk of panel damage during delivery or manipulation.

Product Data

Steel

Galvanic protection options

- Hot-dip zinc coated steel with a total of 275 g/m² of zinc or equivalent, according to EN10147:2000. This can be finished with different coatings - Polyester(PES), Spectrum™ and Foodsafe.
- Hot-dip zinc coated steel with a total of 100 g/m² of zinc, according to EN10147:2000. This can be finished with a 15µm Polyester (PEI) coating. (Standard internal face)

Substrate thicknesses

- Standard external sheet thickness 0,6 mm
 - Standard internal sheet thickness 0,5 mm
- Other thicknesses are available by arrangement with Kingspan.

Coating

Coatings – External Weather Sheet

- Standard Polyester - PES
Polyester is a universal, economic coating system suitable for exterior and interior applications. The nominal coating thickness is 25 µm. This coating is suitable for both external and indoor applications with C1-C3 corrosion environment class (EN10169).
- Spectrum™
Kingspan Spectrum™ is a 50 µm Polyurethane coated semi gloss finish with a slight granular effect. It offers an outstanding durability and weather resistance performance, excellent corrosion and UV resistance as well as high color & gloss retention characteristics. This coating is suitable for both external and indoor applications with C1-C5 corrosion environment class (EN10169). Its superior flexibility enables high resistance against mechanical damages. Kingspan Spectrum is available in a wide range of solid and metallic colours. Furthermore it is free of chlorine, phthalates and plasticizers and 100% recyclable.

Coatings – Internal Liner Sheet

- Thin Coating – PEI
Polyester coating with a nominal thickness of 15 µm. The standard colour is grey white (similar RAL 9002). This coating is suitable only for indoor applications with C1-C2 corrosion environment class (EN10169).
- Polyester – PES
Polyester is a universal, economic coating system suitable for exterior and interior applications. The nominal coating thickness is 25 µm. This coating is suitable for both external and indoor applications with C1-C3 corrosion environment class (EN10169).

Fire

Core thickness D [mm]	Reaction to fire	Fire resistance ⁽³⁾	
		Horizontal	Vertical
80	A2-s1,d0	-	-
100		EI30(i→o) - 7,50m EW45(i→o) - 3,00m EI180(o→i) - 7,50m EI240(o→i) - 3,00m	EI45(i→o) - 7,50m EI60(i→o) - 3,00m EI180(o→i) - 7,50m EI240(o→i) - 3,00m
120			
150			
175			
200			

⁽³⁾ Fire resistance parameters are valid for the product specification based on specific fire resistance classification of relevant product.

Biological

Kingspan insulated sandwich panels are immune to attack from mould, fungi, mildew and vermin. No urea formaldehyde is used in the construction, and the panels are non-deleterious.

Seals

Factory Applied Side Joint Tape

All KS1000 RH-L panel side joints have factory applied anti-condensation seals fitted into the groove to automatically seal the joint between panels.

Building Regulations

Kingspan KS1000 RH-L insulated sandwich panels apply to the European standard EN 14509:2013 Self-supporting double skin metal faced insulating panels and conform to additional National Building Regulations and standards.

Quality

Kingspan insulated sandwich 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 standards, ensuring long term reliability and service life. KS1000 RH-L sandwich panels are manufactured in accordance with the EN 14 509 and CE marked.

Guarantees & Warranties

The Kingspan guarantees are individually assessed for each project, especially depending on the aggressiveness of the environment and the type of surface treatment chosen.

Delivery

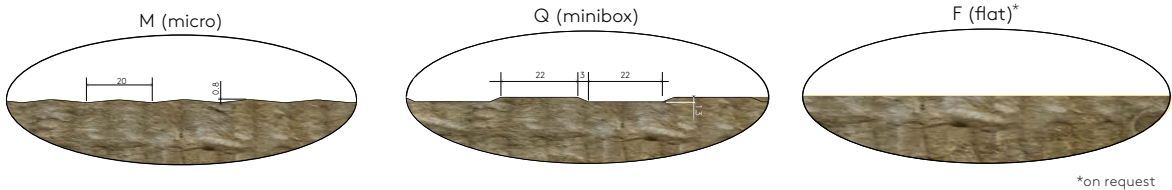
All deliveries (unless indicated otherwise) are by road transport to project site. Off loading is the responsibility of the client.

Site Installation

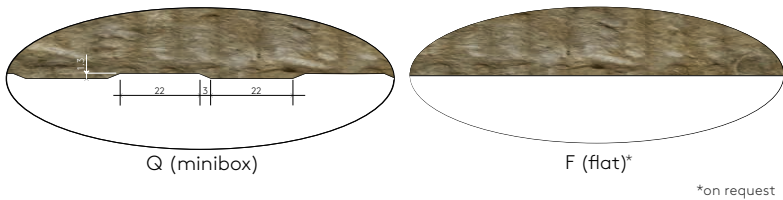
Site assembly instructions are available from Kingspan. Kingspan will arrange training of the site fitters and supervisors if requested

Profilation

External facing profiles



Internal facing profiles





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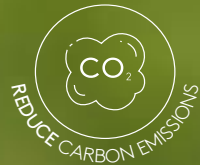
Information about the product offer in other countries can be obtained from your local sales representative or on the website: www.kingspan.com

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Datasheet updated: 23/02/2023



PLANET PASSIONATE



In Autumn 2021, we launched Planet Passionate Communities, the philanthropic arm of our ambitious 10-year sustainability programme, Planet Passionate. Through our Planet Passionate Communities initiative, we are striving to support people and communities around the world while promoting sustainable practices using responsibly sourced materials.

Our Planet Passionate Communities initiative is having both a local and global impact. On a local level, our businesses are devoting their time and resources to support community projects. By creating a local impact, we aspire to build a world that is powered by renewable energy, net-zero carbon, manages water sustainably, and protects the earth's valuable resources by reducing, re-using and recycling.

On a global level, we have joined forces with GOAL, the international humanitarian response agency, to develop critical infrastructure with sustainability at its core, in healthcare and education.

At the core of our Planet Passionate Communities initiative is the ambition to create a positive legacy and a better world. By forging a local legacy, here, at Kingspan, we are determined to use our expertise to create positive impacts for people and communities internationally, and to advance the sustainability agenda for all.

Climate change is the single most important issue facing the world today. To protect our planet, we need to prevent a 1.5° rise in global temperatures this century. To do this, carbon emissions need to be cut to net zero globally by 2050 – but we are currently on course to miss this goal by at least five-fold.



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