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## Architectural Facade Systems

CEE Division

# Matrix K-Roc<sup>®</sup>

## Product datasheet



# Product Data

## Description

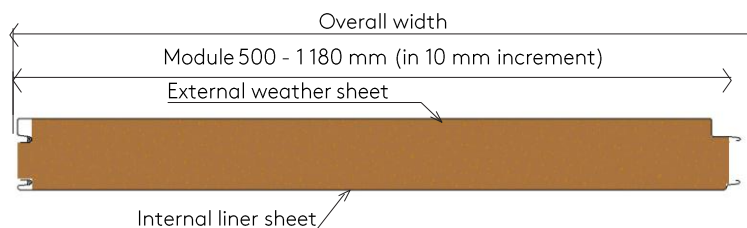
Matrix K-Roc® is prefabricated facade system where all components of a wall envelope are combined into an all-in-one modular wall solution. Advanced facade element complete with thermal insulation K-Roc® (mineral wool), flat surface finish and the clean-cut, square-edged design.



## Application

Matrix K-Roc® is a concealed fixed wall system which can be laid horizontally and is suitable for wall cladding on all buildings except where there are low internal temperature conditions (below 0° C).

## Dimensions



## Technical parameters Matrix K-Roc® MPC\*

Width [mm]	Core thickness [mm]	Weight [kg/m <sup>2</sup> ]	Length of the panels [mm]		Number of panels in package [pcs]	Thermal transmittance (U-value) [W/m <sup>2</sup> K] EN 14509 compliant	Single figure weighted sound reduction Rw [dB]
		Width of steel cover external/internal 0,75 mm/0,50 mm	Minimum	Maximum			
1000	80	17,43	600	7500	10	0,50	N/A
	100	19,13			9	0,40	N/A
	120	20,83			8	0,33	N/A
	150	23,38			6	0,27	N/A
	175	25,50			5	0,23	N/A
	200	27,63			5	0,20	N/A
	220	29,33			5	0,18	N/A
	240	31,03			4	0,17	N/A

\*MPC-Paroc 50C mineral wool was used.

## Technical parameters Matrix K-Roc® MLP\*\*

Width [mm]	Core thickness [mm]	Weight [kg/m <sup>2</sup> ]	Length of the panels [mm]		Number of panels in package [pcs]	Thermal transmittance (U-value) [W/m <sup>2</sup> K] EN 14509 compliant	Single figure weighted sound reduction Rw [dB]
		Width of steel cover external/internal 0,75 mm/0,50 mm	Minimum	Maximum			
1000	80	21,22	600	7500	10	0,55	32 (-2; -4)
	100	23,88			9	0,44	32 (-2; -4)
	120	26,54			8	0,37	32 (-2; -4)
	150	30,53			6	0,30	32 (-2; -4)
	175	33,85			5	0,25	32 (-2; -4)
	200	37,18			5	0,22	32 (-2; -4)
	220	39,84			5	0,20	32 (-2; -4)

\*\*MLP-Isover SP120 mineral wool was used.

# Product Data

## Coating

Coatings – External Weather Sheet

- Kingspan Spectrum: Consists of a coated semi-gloss finish with slight granular effect.

Coatings – Internal Liner Sheet

- Kingspan PES (Polyester SP25): Polyester coating with standard SP designation and nominal thickness of 25 µm in the form of polyester paint, applied to hot-galvanized steel sheet. It is a standard coating for universal use.

For reaction to fire performance of panels with above internal liners please see Certification and Testing section.

## Fire

Matrix K-Roc® panels have been tested and approved and comply with National Building Regulations and standards.

### Matrix K-Roc® MPC\*

Core thickness D [mm]	Fire resistance according EN 13501-1	Fire resistance according EN 13501-2	
		External wall	Internal wall
80	A2-s1, d0	Horizontal	Horizontal
100		N/A	N/A
120		EI 30 (i→o) up to 7,5 lm	
150		EI 30 (i→o) up to 7,5 lm	
175		EI 60 (i→o) up to 4 lm	
200		EI 60 (i→o) up to 7,5 lm	EI 60 up to 7,5 lm
220			
240			

\*MPC – Paroc 50C mineral wool was used. For panel width of 1000 mm.

### Matrix K-Roc® MLP\*\*

Core thickness D [mm]	Fire resistance according EN 13501-1	Fire resistance according EN 13501-2	
		External wall	Internal wall
80	A2-s1, d0	Horizontal	Horizontal
100		N/A	N/A
120		EI 30 (i→o) up to 7,5 lm	EI 30 up to 7,5 lm
		EI 60 (i→o) up to 4 lm	EI 45 up to 6 lm EI 60 up to 4 lm
150		EI 90 (i→o) up to 7,5 lm	EI 90 up to 7,5 lm EI 120 up to 6 lm
175		EI 120 (i→o) up to 6 lm	
200		EI 90ef (o→i) up to 7,5 lm	
220		EI 120ef (o→i) up to 6 lm	

\*\*MLP – Isover SP120 mineral wool was used. For panel width of 1000 mm.

## Insulation Core

A standard K-Roc® mineral wool insulation core is used.

## Guarantees & Warranties

Kingspan will provide external coating and product guarantees on a project-by-project basis.

## Building Regulations

Matrix K-Roc® 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.

## Biological

Kingspan architectural facade 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.

## Quality

Kingspan architectural facade 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.

## Delivery

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

## Packing

Standard packing – road transportation

Matrix K-Roc® panels are stacked with weather side down. The entire palette is wrapped with protection film. The number of panels in each pack depends on panel thickness and length. The table below is shown as a guide. Quantities are reduced for exceptionally long panels. Typical palette height is 1,100 mm.

## Site Installation

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

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Information about the product offer in others countries can be obtained from your local sales representative or on the website: [www.kingspan.com](http://www.kingspan.com)

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# 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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