Ruukki® Firewall System 200.1 and 230.1

Ruukki® Firewall has a single-layer panel structure with reinforced joint structures and is suitable for use in all frame structures materials, like steel, concrete or wood. Our Ruukki Firewall solution is applicable both to exterior walls and fire-partitions dividing a building inside.

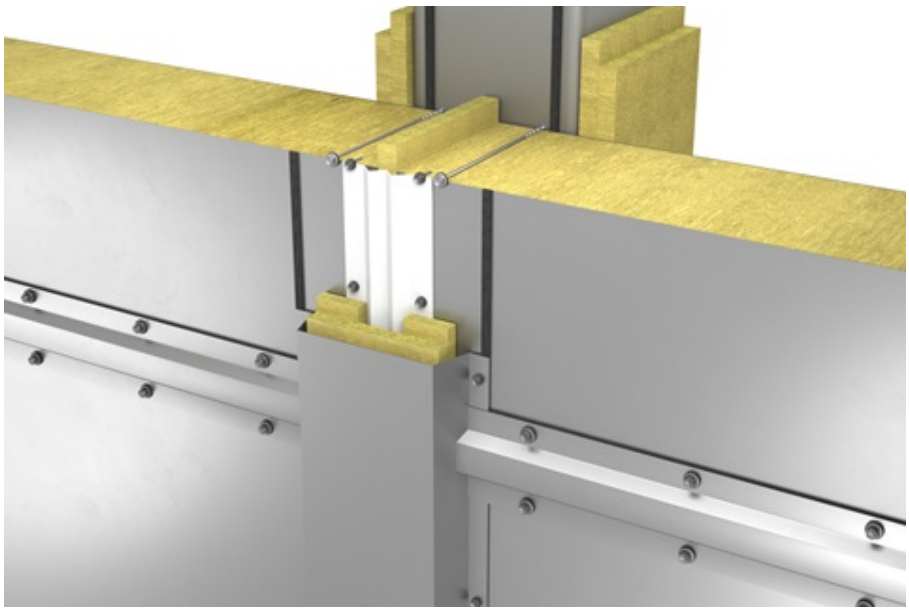
Ruukki Firewall panels are available in two panel thicknesses: 200 mm and 230 mm. They meet ratings EI-M 90 up to a 7.5 m span and EI-M 120 up to a 6 m span.

Requirements for the use of EI-M rated firewalls are typically based on national building regulations and requirements may vary between countries.

This system is optionally available with following sustainable features:

- Steel facings made of recycled steel (SSAB Zero) for significantly lower CO_2emissions and high circularity (Ruukki® LowCarbon)

The fireproof panel joint arrangement is patented.



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Properties

Model name	Ruukki® Firewall System 200.1 and 230.1
Standard module width	1200 mm
Minimum length	2000 mm
Maximum Length	7500 mm
External facing thickness	0.7 mm
Internal facing thickness	0.7 mm

Thickness D (mm)	**200**	**230**
Weight (kg/m^2)	37.1	41.3
U-value (W/m^2K)	0.22	0.19
Sound insulation Rw (dB)	31	31
Reaction to fire	A2-s1,d0	A2-s1,d0
GWP-total, A1-A3 (kg CO_2/m^2)	35,7	37,4
GWP-total, A1-A3 (kg CO_2e/m^2) for Ruukki® LowCarbon	~21,5	22,8

Fire and impact resistance values of system and maximum allowed span lengths of horizontally installed panels (m)	**200**	**230**
EI-M 30	7.5	7.5
EI-M 60	7.5	7.5
EI-M 90	7.5	7.5
EI-M 120	6.0	6.0

Ruukki Firewall system concerns horizontally installed wall panels.
Declared performances of Ruukki® Firewall panels 200.1 and 230.1 according to DoP no. 61.

Coatings and colors

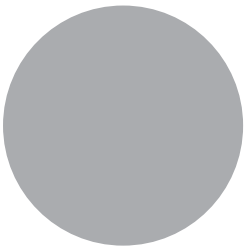
Materials

Facing	Coating	Gloss level (GU)	Corrosion class	UV resistance	Colours
External	GreenCoat Pural BT Satin	20	C4	Ruv4-5	RR20, RR21, RR22, RR23
External	GreenCoat Pural BT Metallic	40	C4	Ruv4	RR40, RR41
External	Polyester	35	C3	Ruv2-3	RR20
Internal	GreenCoat Pural BT Satin	20	C4	Ruv4-5	RRR20, RR21, RR22, RR23
Internal	GreenCoat Pural BT Metallic	40	C4	Ruv4-5	RR40, RR41
Internal	Polyester	35	C3	Ruv2-3	RR20

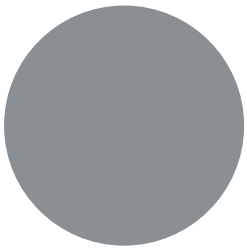
UV resistance describes how well the coating is able to keep its original colour and gloss levels in accordance with EN10169. The higher the class, the better the resistance.

Corrosivity categories describe the outdoor climate conditions in accordance with EN12944. The higher the category, the more corrosive environment.

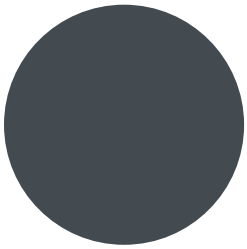
RR20 Winter White



RR21 Pebble Grey



RR22 Stone Grey



RR23 Mountain Grey

RR40 Metallic Silver

RR41 Metallic Dark Silver

Profile options

Rib 150

Rib 200

Rib 600

Flat F

Design tools

Traypan® software for designing sandwich panels

With TrayPan®, you can design metal faced sandwich panels made by Ruukki. A panel structure can be designed as a single- or multi-span construction. You can easily give, with a few parameters, both suction and pressure loads caused by the wind. The application also calculates the necessary fasteners.

Go to Traypan®

Download BIM objects to your desktop

ProdLib brings Ruukki products as BIM models directly to your desktop in 3D form for design programs AutoCAD, Autodesk Revit, Archicad and Tekla Structures. Product libraries compile all necessary design models and detailed drawings in one place. Library updates are automatically notified, so as a user you can be sure that your product information is constantly up to date. ProdLib can also be used as a standalone desktop application.

Go to BIM library

Download documents

Declaration of performance

Declaration of Performance 61/MW/ALA
PDF, 53.1 KB

Other documents

Please fill the form below. Our firewall system specialist will contact you to discuss the case and share the needed documentation. Available documents are e.g.

- Detail drawings
- Design instructions
- Classification document

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