

Sandwich panel SPA F Energy

Sandwich panel **SPA F Energy** is available in thicknesses 200 - 230 mm.

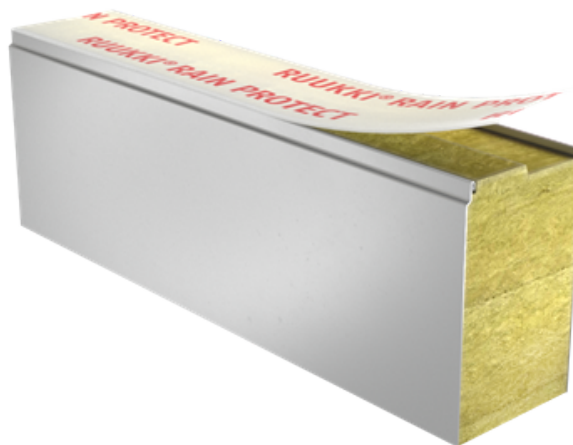
With precise and Ruukki specific manufacturing tolerances, and factory-fitted seals on the panel joints, the Ruukki® Energy panel structure with its seams forms a very airtight solution. Together with Ruukki Airtightness package it's possible to achieve excellent airtightness to the entire building. This can decrease energy costs and CO2 emissions up to 30%. [Read more on airtightness package.](#)

Using Ruukki's solutions you can receive more credits in LEED and BREEAM certification systems. The panel's excellent quality ensures **very good fire resistance properties**, thus increasing fire safety of buildings. This panel type is **intruder resistant** in accordance with SSF 1047, classes 2 & 3 (see Certificates & approvals).

With the filling consisting of non-combustible and environmentally friendly hard mineral wool, this sandwich panel ensures excellent fire resistance. Properly milled core increases air-tightness and contributes to **outstanding sound insulation**.

Application:

- External walls (standard fix)



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Properties

Model name	Sandwich panel SPA F Energy
Standard module width	1200 mm
Minimum length	2000 mm
Maximum Length	13500 mm
External facing thickness	0.6 mm
Internal facing thickness	0.5 mm
Air Tightness	q50=0,01 m3/hm2 (pressure and suction)

Thickness D (mm)	200	230
Weight (kg/m ²)	32.5	36.4
U-value (W/m ² K)	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 ₂ e/m ²) for Ruukki® LowCarbon	~21,5	22,8

Wall fire resistance values & max span horizontal / vertical orientation (m):	200	230
EI 30	9.0 / 8.8	9.0 / 8.8
EI 60	9.0 / 8.8	9.0 / 8.8
EI 90	7.5 / 8.8	7.5 / 8.8
EI 120	7.5 / 7.5	7.5 / 7.5
EI 180	7.5 / 7.5	7.5 / 7.5
EI 240	6.0 / 6.0	6.0 / 6.0

Coatings and colors



External facing: Cor-Ten

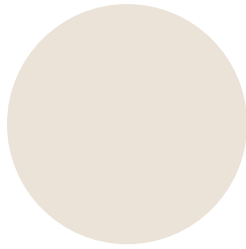
Materials

Facing	Coating	Gloss level (GU)	Corrosivity category	UV resistance	Colours
External	GreenCoat Pural BT Satin	20	C4	Ruv4-5	RR20, RR21, RR22, RR23, RR29, RR33, RR35
External	GreenCoat Pural BT Metallic	40	C4	Ruv4	RR40, RR41, RR45
External	Polyester	35	C3	Ruv2-3	RR20, RR21, RR23, RR946
Internal	Polyester	35	C3	-	RR20
Internal	Foodsafe laminate *		C4	-	White
Internal	Stainless steel		C4	-	-

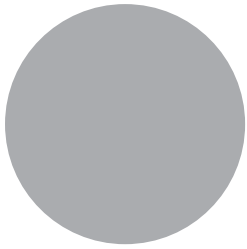
*) optional material

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.

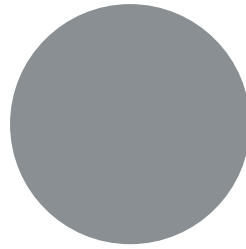
Corrosivity categories describe the outdoor climate conditions in accordance with EN12944. The higher the category, the more corrosive environment.



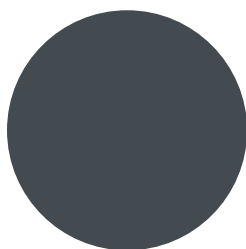
RR20 Winter White



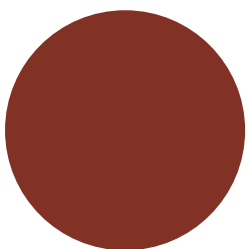
RR21 Pebble Grey



RR22 Stone Grey



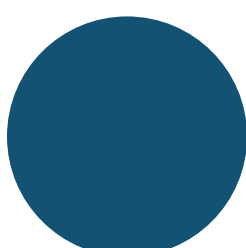
RR23 Mountain Grey



RR29 Cottage Red



RR33 Nordic Night Black



RR35 Lake Blue



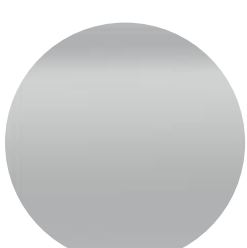
RR40 Metallic Silver



RR41 Metallic Dark Silver



RR45 Metallic Titanium



RR946 Metallic Silver

Profile options



Micro 15



Rib 150



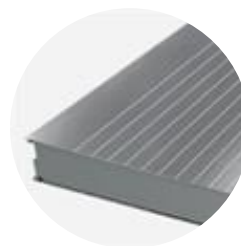
Rib 200



Rib 600



Flat F



Linear 50

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.

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Technical documents

Detail drawings



Sandwich panel SPA Patina - detail drawings 05_2025

DWG, 1.6 MB



Sandwich panel SPA Patina - detail drawings 05_2025

PDF, 1.0 MB

Installation and maintenance instruction



Sandwich panel Patina - installation and maintenance instructions 12_2023

PDF, 3.1 MB

Sound insulation values



Sound insulation values for sandwich panels and various structures 02_2023

PDF, 5.9 MB

Certificates and approvals

Environmental product declaration

Intruder resistance certificate



Sandwich panel Certificate on Burglary Protection Classes 1-3

PDF, 324.0 KB



SBSC Certificate Burglar protective walls SPA E LIFE, grade 2

PDF, 247.9 KB