

Sandwich panel SPA E Patina

Sandwich panel SPA E Patina is available in thicknesses 150 - 230 mm.

It ensures excellent air-tightness and energy efficiency. The application of special solutions with structural details and assembly services provided by skilled and certified contractors enable to decrease energy costs of the building and its CO² emissions up to 20%.

Using Ruukki's solutions you can receive more credits in LEED and BREEAM certification systems.

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.

We offer this panel also as Ruukki® Patina Panel version, made of natural and untreated Cor-Ten® steel. The unique joint structure is patented. It prevents corrosion at the joints. The new, innovative panel is also maintenance free since it repairs scratches over time itself.

Application:

- External walls (standard fix)

The method for joining Cor-Ten® steel-based sandwich panels, preventing corrosion formation in the joint, is patented.





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Properties

Model name	Sandwich panel SPA E Patina
Standard module width	1200 mm
Minimum length	2000 mm
Maximum Length	13500 mm
External facing thickness	0.7 mm
Internal facing thickness	0.5 mm
Air Tightness	q50 = 1,0 m3/(m2*h) for Ruukki Energy system, entire building

Thickness D (mm)	150	200	230
Weight (kg/m ²)	24.2	28.1	31
U-value (W/m ² K)	0.26	0.20	0.17
Sound insulation Rw (dB)	30	31	31
Reaction to fire	A2-s1. d0	A2-s1. d0	A2-s1. d0
GWP-total, A1-A3 (kg CO ₂ ◇/m ²)	31,4	33	34,1
Estimated GWP (A1-A3) for Ruukki® LowCarbon (kg CO ₂ ◇/m ²)*	-	-	-

Wall fire resistance values & max span horizontal / vertical orientation (m):	150	200	230
EI 30	7.5 / -	7.5 / -	7.5 / -
EI 60	7.5 / -	7.5 / -	7.5 / -
EI 90	6.0 / -	6.0 / -	6.0 / -

Coatings and colors



External facing: Cor-Ten

Materials

Facing	Coating	Corrosivity category	UV resistance	Colours
External	Cor-Ten®	C3	-	-
Internal	Polyester	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.

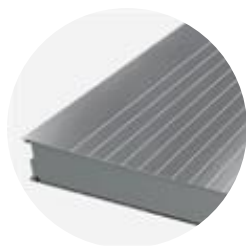
Surface variations



Profile option Flat



Profile option Micro 15



Profile option Linear 50



Profile option Rib 150



Profile option Rib 200



Profile option Rib 600

Facing	Profile options
External	Flat F
Internal	Flat F, Micro 15, Linear 50, Rib 150, Rib 200, Rib 600

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

ProLib 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 consistently 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_2021

PDF, 1.4 MB



Sandwich panel SPA Patina - detail drawings 12_2021

DWG, 1.3 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, 0.7 MB