

## Sandwich panel SPA E Patina

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

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.

Ruukki® Patina panel is made of natural and untreated Cor-Ten® steel. The unique joint structure of the panel prevents corrosion at the joints (patent pending). The new, innovative panel is also maintenance free since it repairs scratches over time itself.

### Application:

- External walls (standard fix)



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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=0,01 m3/hm2 (pressure and suction)

Thickness D (mm)	150	200	230
Weight (kg/m <sup>2</sup> )	24.2	28.1	31
U-value (W/m <sup>2</sup> 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

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 / -

Detailed information regarding the application of fire resistance ratings can be obtained from Ruukki Sales.

# 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*

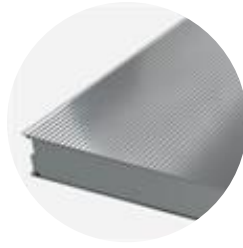
*UV resistance describes how well the coating is able to keep its original colour and gloss levels in accordance with EN10169. The higher the class, the better the resistance.*

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

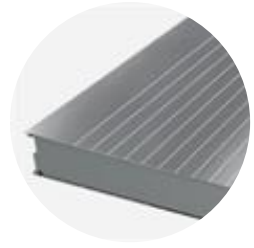
## Surface variations



**Flat F**



**Micro 15**



**Linear 50**



**Rib 150**



**Rib 200**



**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®](#)

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## Technical documents

### Detail drawings



**Sandwich panel SPA Patina - detail drawings 12\_2021**

DWG, 1.3 MB



## **Sandwich panel SPA Patina - detail drawings 12\_2021**

PDF, 1.4 MB

### **Installation and maintenance instruction**



## **Sandwich panel Patina - installation and maintenance instructions 05\_2021**

PDF, 1.1 MB

### **Sound insulation values**



## **EN\_Sandwich\_panel\_SPA\_Sound\_insulation\_values\_12\_2016**

PDF, 3.6 MB

## **Certificates and approvals**

### **Environmental product declaration**



## **EPD Sandwich panels with mineral wool insulation core 4\_2022**

PDF, 400.3 KB

### **Intruder resistance certificate**



## **Sandwich panel Certificate on Burglary Protection Classes 1-3**

PDF, 0.7 MB



## **SBSC Certificate Burglar protective walls SPA E LIFE, grade 2**

PDF, 244.3 KB