

Sandwich panel SP2B E-PIRE

Sandwich panel **SP2B E-PIRE** is available in thicknesses 80 - 120 mm.

This product, made with the use of advanced production processes, offers **optimal performance of the designed solution**.

The core of this sandwich panel is made of rigid, HCFC-free, self-extinguishing and sustainable polyisocyanurate foam (PIR). Its **excellent thermal insulation properties** enable the decrease of panel thickness which transfers directly to lower transportation and assembly costs, as well as **significant savings** of building's life cycle costs.

As an option, the panel can be equipped with the integrated gaskets in the joint that provide reliable airtightness of the panel. Only panels with gaskets can be part of the full Ruukki airtightness package including dedicated details and accessories.

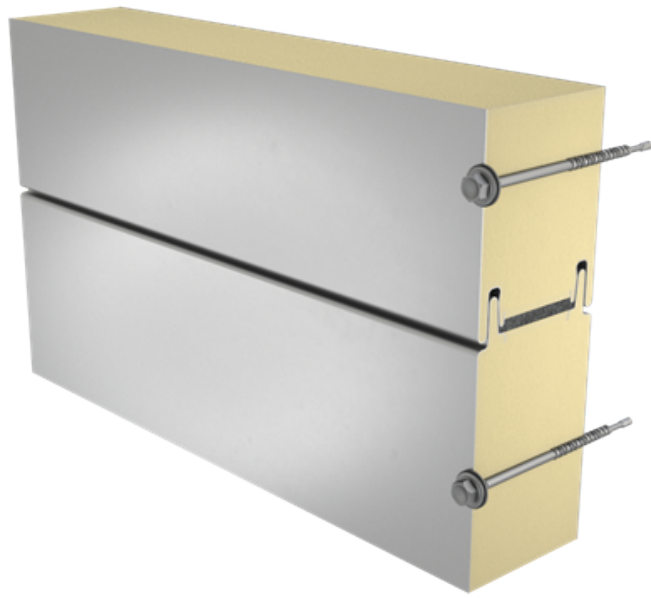
[Read more on airtightness package.](#)

Application:

- External walls
- Internal walls

This product is optionally available with following sustainable features:

- Steel facings made of recycled steel (SSAB Zero) for significantly lower CO2 emissions and high circularity - available as Ruukki LowCarbon
- Ruukki Airtightness package for lower CO2 emissions during the use phase of the building



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Properties

Model name	Sandwich panel SP2B E-PIRE
Standard module width	1100 mm
Optional module width (B)	1000 (D = 80, 100, 110, 120 mm)
Minimum length	2000 mm
Maximum Length	18500 mm
External facing thickness	0.5 mm
Internal facing thickness	0.4 mm
External Fire Exposure	NRO
Air Tightness	q50=0,01 m3/hm2 (pressure and suction) for thicknesses ≥ 100 mm *

Thickness D (mm)	80	100	110	120
Weight (kg/m ²)	11.4	12.1	12.4	12.8
U-value (W/m ² K)	0.27	0.22	0.20	0.18
Sound insulation Rw (dB)	24	24	24	24
Reaction to fire	B-s2,d0	B-s2,d0	B-s2, d0	B-s2,d0
GWP-total, A1-A3 (kg CO ₂ ◇/m ²)	29,4	31,1	31,8	32,6
GWP-total, A1-A3 (kg CO ₂ e/m ²) for Ruukki® LowCarbon	-	-	-	-

Wall fire resistance values & max span horizontal / vertical orientation (m):	80	100	110	120
EI 15	-	6.0/-	6.0/-	6.0/-
EW 15	-	6.0/-	6.0/-	6.0/-

* The airtightness (q50) is applicable only for the panels equipped with EPDM gaskets.

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

All properties are declared in accordance with EN 14509 and related standards.

Coatings and colors

Materials

Facing	Coating	Corrosion class	UV resistance	Colours
External	Polyester	C3	Ruv2-3	RAL1015 (RR807), RAL1021, RAL2003, RAL3000 (RR770), RAL3009 (RR29), RAL3013 (RR774), RAL5005 (RR4A8), RAL5012 (RR408), RAL6011 (RR526), RAL6018 (RR5G8), RAL7035 (RR2B1), RAL7040 (RR287), RAL9002 (RR1G6), RAL9003 (RR106), RAL9006 (RR946), RAL9007, RAL9010 (RR1G5)
Internal	Polyester	C3	-	RAL9002 (RR1G6), RAL9010 (RR1G5)
Internal	PVC laminate *	C4	-	White

**) 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.

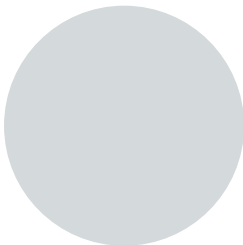
Primary colors



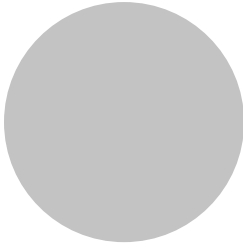
RAL9002 Grey white RR1G6



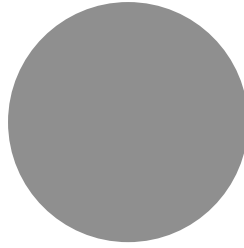
RAL9010 Pure white RR1G5



RAL7035 Light grey RR2B1



RAL9006 White aluminium RR946

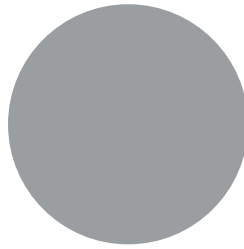


RAL9007 Grey aluminium

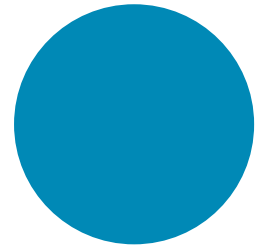
Complementary colors



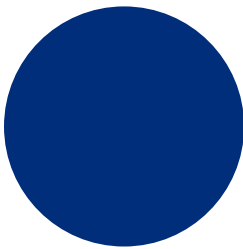
RAL9003 Signal white RR106



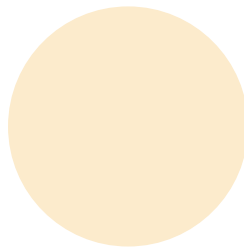
RAL7040 Window grey RR287



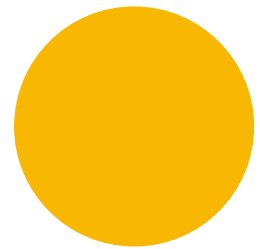
RAL 5012 Light blue RR408



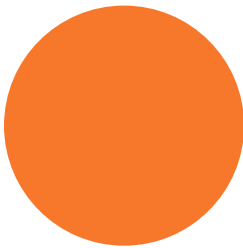
RAL5005 Signal blue



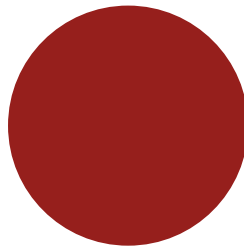
RAL1015 Light ivory RR807



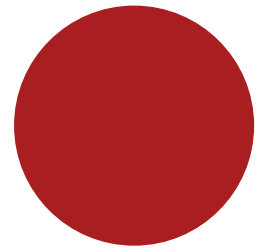
RAL1021 Colza yellow



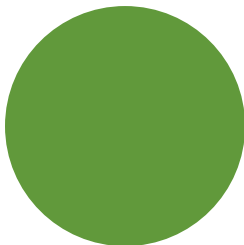
RAL2003 Pastel orange



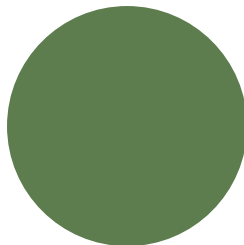
RAL3013 Tomato red RR774



RAL3000 Flame Red RR770

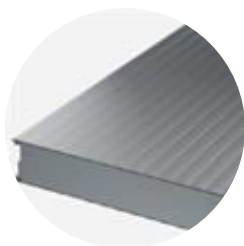


RAL 6018 Yellow green RR5G8

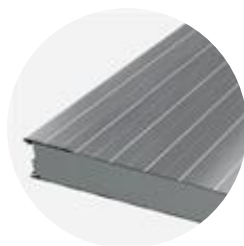


RAL6011 Reseda green RR526

Profile options



Linear L25



Linear L



Micro M

Modular width	Facing	Profile options
1100mm	External	L, L25, M
	Internal	L25
1000mm	External	L, L25, M
	Internal	L25

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](#)

Technical documents

Here you can find all technical documents related to Ruukki's sandwich panels. Documents are organised by document type. Click to enter document library.

**Product
descriptions**



**Accessory
documents**



Load tables



**Installation
instructions**



**Maintenance
instructions**



**Sound
insulation
values**



**Detail
drawings**



Certificates and approvals

Here you can find all certificates and approvals related to Ruukki's sandwich panels. Documents are organised by document type. Click to enter document library.

**Declaration of
performance**



**Environmental
product
declaration**



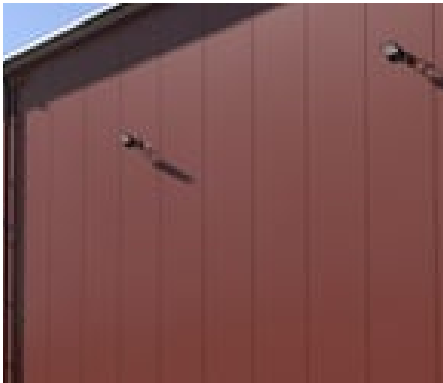
**Intruder
resistance
certificate**



**M1 Emission
Classification**



Visualization tool



Get inspired with our Sandwich Panel visualization tool

With our interactive Visualization tool for Ruukki sandwich panels, you can easily explore and customize the perfect combination for your building project.

[Go to visualization tool](#)