

Sandwich panel nSPB WF

Sandwich panel **nSPB WF** is available in thicknesses 100 - 230 mm.

Advanced technology contributing to the improvement of panel strength ensures **very good mechanical properties** of this sandwich panel.

With the filling consisting of non-combustible and environmentally friendly hard mineral wool, this sandwich panel ensures **excellent fire resistance**.

The gaskets integrated in the joint provide reliable airtightness of the panel as a standard. For maximum performance of the wall as a whole upgrade to the full Ruukki Airtightness package including dedicated details and accessories.

[Read more on airtightness package.](#)

Optionally, on request, **nSPB WF** sandwich panel can be delivered as FM Approved product with a certificate granted by the world-biggest insurance company FM Global. The global certificate received based on 4880 and 4881 standards confirms that a building's envelope made of these sandwich panels from Ruukki ensures the highest safety level in case of fire or hurricane.

For all needed information about FM Approved panels, please contact Ruukki Sales.



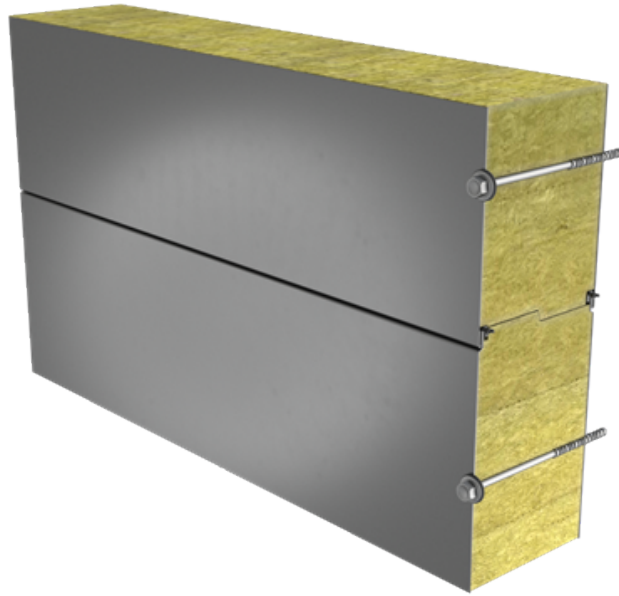
Application:

- 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



[SEND CONTACT REQUEST](#)

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Properties

Model name	Sandwich panel nSPB WF
Standard module width	1100 mm
Optional module width (B)	1000 mm
Minimum length	2000 mm
Maximum Length	12000 mm
External facing thickness	0,5 mm * 0,6 mm
Internal facing thickness	0.5 mm
External Fire Exposure	NRO
Air Tightness	q50=0,01 m3/hm2 (pressure and suction) for thicknesses ≥ 150 mm

*External facing thickness 0,5 mm is a standard option for the following colors: RAL 9002 (RR1G6), RAL9010 (RR1G5) (all modular widths), RAL7035 (RR2B1) and RAL9006 (RR946) (modular widths: 1100 mm and 1000 mm)

Thickness D (mm)	100	110	120	140	150	160	170	180	200	210	230
Weight (kg/m ²)	22.4	23.6	24.8	27.2	27.7	28.8	30	32	34.4	35.4	38
U-value (W/m ² K)	0.43	0.40	0.36	0.31	0.28	0.26	0.25	0.23	0.21	0.20	0.18
Sound insulation Rw (dB)	32	32	32	32	32	32	32	32	32	32	32
Reaction to fire	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0
GWP-total, A1-A3 (kg CO ₂ ◇/m ²)	31,3	31,9	32,4	33,4	33,9	34,5	35	35,5	36,6	37,1	38,1
GWP-total,	-	-	-	-	-	-	-	-	-	-	-

A1-A3 (kg CO ₂ e/m ²) for Ruukki® LowCarbon											
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Wall fire resistance values & max span horizontal / vertical orientation (m):	100	110	120	140	150	160	170	180	200	210	230
EI 60	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5	8.0 / 8.5	9.0 / 8.8	9.0 / 8.8	9.0 / 8.8	9.0 / 8.8	10.0 / 8.8	10.0 / 8.8	10.0 / 8.8
EI 90	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5	7.5 / 8.5	7.5 / 8.8	7.5 / 8.8	7.5 / 8.8	7.5 / 8.8	8.0 / 8.8	8.0 / 8.8	8.0 / 8.8
EI 120	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5	7.5 / 8.5	7.5 / 8.5	7.5 / 8.5	7.5 / 8.5	7.5 / 8.5	7.5 / 8.5	7.5 / 8.5	7.5 / 8.5
EI 180	-	-	-	-	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5
EI 240	-	-	-	-	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0

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	Gloss level (GU)	Corrosivity category	UV resistance	Colours
External	GreenCoat Pural BT Satin	20	C4	Ruv4-5	RAL9010 (RR126)
External	GreenCoat Pural BT Metallic	40	C4	Ruv4	RAL9006 (RR40), RAL9007 (RR41)
External	Polyester	35	C3	Ruv2-3	RAL1015 (RR807), RAL1021, RAL2003, RAL3000 (RR770), RAL3009 (RR29), RAL3013 (RR774), RAL5003 (RR4F8), RAL5005 (RR4A8), RAL5012 (RR408), RAL6011 (RR526), RAL6018 (RR5G8),

					RAL7015 (RR23), RAL7016 (RR288), RAL7035 (RR2B1), RAL7040 (RR287), RAL9002 (RR1G6), RAL9003 (RR106), RAL9006 (RR946), RAL9007, RAL9010 (RR1G5), Golden Oak
Internal	Polyester	35	C3	-	RAL9002 (RR1G6), RAL9010 (RR1G5)

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.

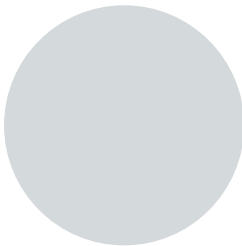
Primary colors



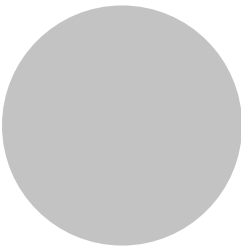
RAL9010 Pure white RR1G5



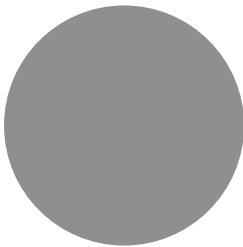
RAL9002 Grey white RR1G6



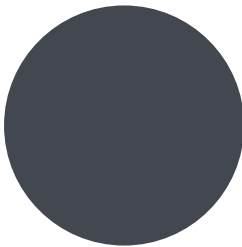
RAL7035 Light grey RR2B1



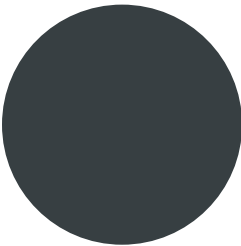
RAL9006 White aluminium RR946



RAL9007 Grey aluminium



RAL7015 Slate grey RR23

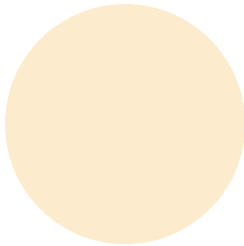


RAL7016 Anthracite grey RR288

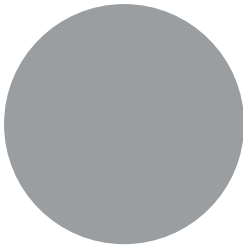
Complementary colors



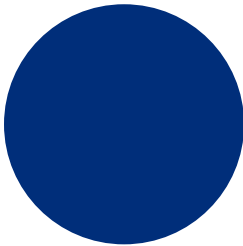
RAL9003 Signal white RR106



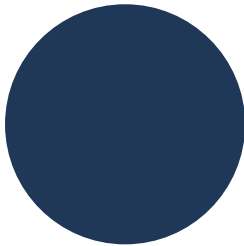
RAL1015 Light ivory RR807



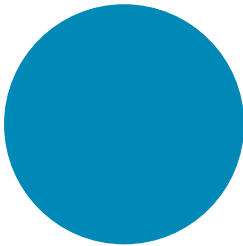
RAL7040 Window grey RR287



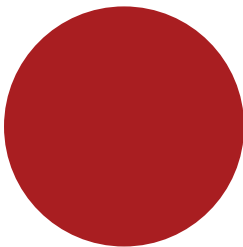
RAL5005 Signal blue



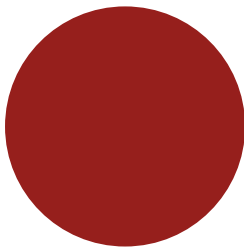
RAL5003 Sapphire blue RR4F8



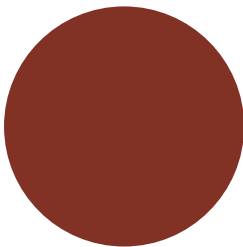
RAL 5012 Light blue RR408



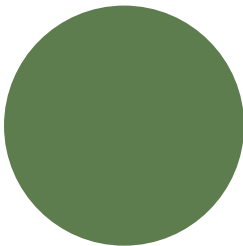
RAL3000 Flame Red RR770



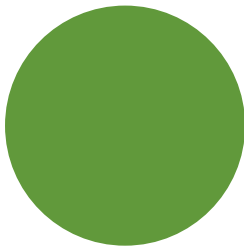
RAL3013 Tomato red RR774



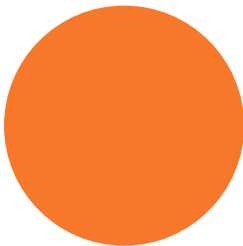
RAL3009 Oxide red RR29



RAL6011 Reseda green RR526



RAL 6018 Yellow green RR5G8



RAL2003 Pastel orange

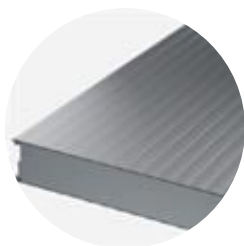


RAL1021 Colza yellow

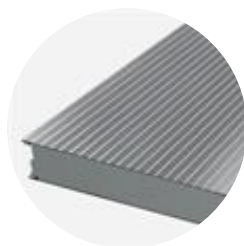


Golden oak

Profile options



Linear L25



Ribbed R28



Ribbed R500



Ribbed R250



Linear L



Micro M



Ribbed R275



Ribbed R550



Flat F

Modular width	Facing	Profile options
1100 mm	External	L, L25, M, R28, R275, R550, F
	Internal	L, L25, F
1000 mm (B)	External	L, L25, M, R28, R250, R500, 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.

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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**



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**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**



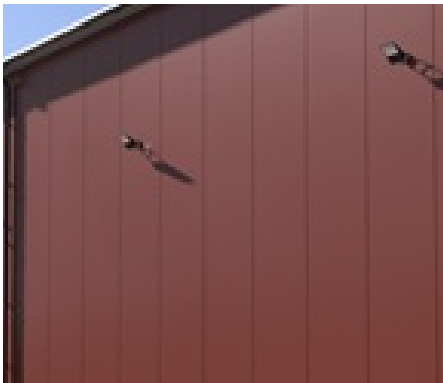
**Intruder
resistance
certificate**



**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](#)