

Sandwich panel nSPB WF for external wall and internal wall

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 sandwich panel.

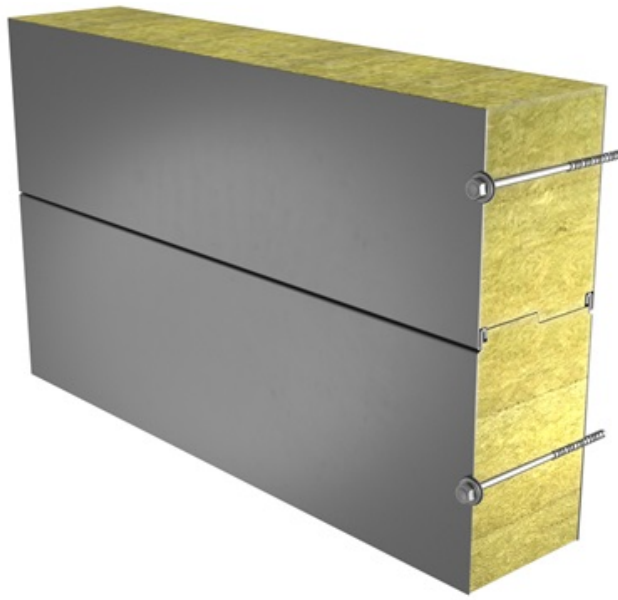
With the filling consisting of non-combustible and environmentally friendly hard mineral wool, this sandwich panel ensures excellent fire resistance. Properly milled core increases air-tightness and contributes to outstanding sound insulation.

Sandwich panel **nSPB WF** is available also with FM Approved 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.



Applications:

- External walls
- Internal walls



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Properties

Model name	Sandwich panel nSPB WF for external wall and internal wall
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

*External facing thickness 0,5 mm is a standard option for the following colors: RAL9002 (RR1G6), RAL9010 (RR1G5) (all modular widths), RAL7035 (RR2B1) and RAL9006 (RR946) (modular widths: 1100 mm and 1000 mm)

Thickness D (mm)	100	120	140	150	160	170	180	200	230
Weight (kg/m ²)	22.4	24.8	27.2	27.7	28.8	30	32	34.4	38
U-value (W/m ² K)	0.43	0.36	0.31	0.28	0.26	0.25	0.23	0.21	0.18
Sound insulation Rw (dB)	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
GWP-total, A1-A3 (kg CO ₂ e/m ²)	31,3	32,4	33,4	33,9	34,5	35	35,5	36,6	38,1
GWP-total, A1-A3 (kg CO ₂ e/m ²) for Ruukki® LowCarbon	-	-	-	-	-	-	-	-	-

Wall fire resistance values & max span	100	120	140	150	160	170	180	200	230
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horizontal / vertical orientation (m):									
EI 60	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
EI 90	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
EI 120	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
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
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

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

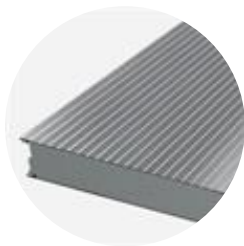
Facing	Coating	Gloss level (GU)	Corrosivity category	UV resistance	Colours
External	GreenCoat Pural BT Satin	20	C4	Ruv4-5	RAL7035 (RR292), RAL9010 (RR126)
External	GreenCoat Pural BT Metallic	40	C4	Ruv4	RAL9006 (RR40), RAL9007 (RR41)
External	Polyester	35	C3	Ruv2-3	RAL1015 (RR807), RAL1021, RAL2003, 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.

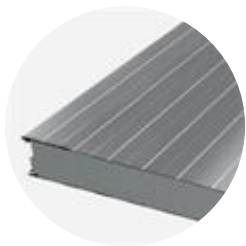
Corrosivity categories describe the outdoor climate conditions in accordance with EN12944. The higher the category, the more corrosive environment.

Read more about UV-resistance and corrosivity categories.

Profile options



Profile option Rib 28



Profile option Linear



Profile option Micro



Profile option Rib 275



Profile option Rib 550



Profile option Flat

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
	Internal	L, L25, 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®](#)



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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**



Load tables



**Installation
instructions**



**Maintenance
instructions**



**Sound insulation
values**



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**

