Sandwich panel nSPC W for roof

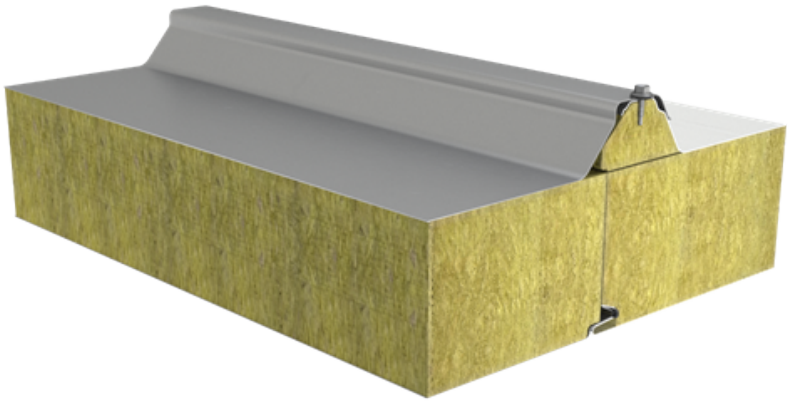
Sandwich panel **nSPC W** is available in thicknesses 140/100, 160/120 and 190/150 mm.

It is a perfect solution for roof structures, combining high quality with very good technical properties.

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.

Application:

- Roofs



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Properties

Model name	Sandwich panel nSPC W for roof
Standard module width	1000 mm
Minimum length	2000 mm
Maximum Length	12000 mm
External facing thickness	0.6 mm
Internal facing thickness	0.5 mm
External Fire Exposure	Broof (t1, t2, t3)

Thickness D (mm)	**140/100**	**190/150**
Weight (kg/m^2)	22.8	28.5
U-value (W/m^2K)	0.40	0.27
Sound insulation Rw (dB)	34	34
Reaction to fire	A2-s1,d0	A2-s1,d0
GWP-total, A1-A3 (kg CO_2/m²)	34,3	36,8
GWP-total, D (kg CO_2/m²)	-16,6	-16,6

Fire ratings classes (stitched joint on upper facing required)	**140/100**	**190/150**
REI 90	v	v
RE 120	v	v
RE 180	v	-
RE 240	v	-

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

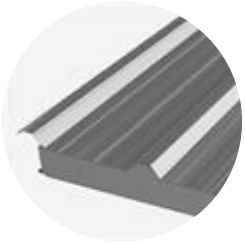
Materials

Facing	Coating	Corrosivity category	UV resistance	Colours
External	Polyester	C3	Ruv2-3	RAL7016 (RR288), RAL7035 (RR2B1), RAL9002 (RR1G6), RAL9006 (RR946), RAL9007
Internal	Polyester	C3	-	RAL9002 (RR1G6), RAL9010 (RR1G5)

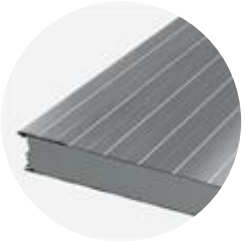
UV resistance describes how well the coating is able to keep its original colour and gloss levels in accordance with EN10169. The higher the class, the better the resistance.

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

Profile sheets



Profile option Trapezoidal v



Profile option Linear

External profiling	T
Internal profiling	L

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 consistantly 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

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