

Sandwich panel SP2D E-PIR

Sandwich panel SP2D E-PIR is available in thicknesses 60 - 120 mm.

It is a perfect solution for most buildings and structures, combining **high quality** with **very good technical properties**.

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.

Application:

- · External walls
- · Internal walls



SEND CONTACT REQUEST

Properties

| Model name | Sandwich panel SP2D E-PIR |
|---------------------------|---------------------------|
| Standard module width | 1000 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 |

| Thickness D (mm) | 60 | 80 | 100 | 120 |
|--|----------|----------|----------|----------|
| Weight (kg/m²) | 11.2 | 11.9 | 12.7 | 13.4 |
| U-value (W/m ² K) | 0.38 | 0.28 | 0.22 | 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 CO₂∜/m²) | 27,8 | 29,4 | 31,1 | 32,6 |
| GWP-total, A1-A3 (kg CO2e/m²) for Ruukki® LowCarbon | - | - | - | - |

| Wall fire resistance values & max span horizontal / vertical orientation (m): | 60 | 80 | 100 | 120 |
|---|----|----|---------|---------|
| El 15 (fire from inside) | - | - | - / 7.5 | - / 7.5 |
| El 15 (fire from outside) | - | - | - / 7.5 | - / 7.5 |
| EW 15 (fire from inside) | - | - | - / 7.5 | - / 7.5 |
| EW 20 (fire from inside) | - | - | - / 4.0 | - / 4.0 |
| EW 15 (fire from outside) | - | - | - / 7.5 | - / 7.5 |
| EW 20 (fire from outside) | - | - | - / 4.0 | - / 4.0 |

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.

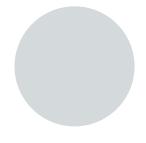
Corrosivity categories describe the outdoor climate conditions in accordance with EN12944. The higher the category, the more corrosive environment.

Primary colors

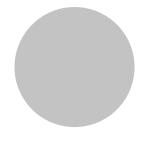




RAL9002 Grey white RR1G6



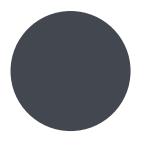
RAL7035 Light grey RR2B1



RAL9006 White aluminium RR946



RAL9007 Grey aluminium



RAL7015 Slate grey RR23



RAL7016 Anthracite grey RR288

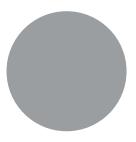
Complementary colors



RAL9003 Signal white RR106



RAL1015 Light ivory RR807



RAL7040 Window grey RR287



RAL5005 Signal blue



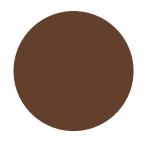
RAL5003 Sapphire blue RR4F8



RAL 5012 Light blue RR408







RAL3013 Tomato red RR774

RAL3009 Oxide red RR29







RAL6011 Reseda green RR526

RAL 6018 Yellow green RR5G8

RAL2003 Pastel orange

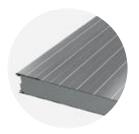




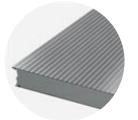
RAL1021 Colza yellow

Golden oak

Profile options







Linear L

Micro M

Ribbed R28



Flat F

| External | L, M, R28, F |
|----------|--------------|
| Internal | L, 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®



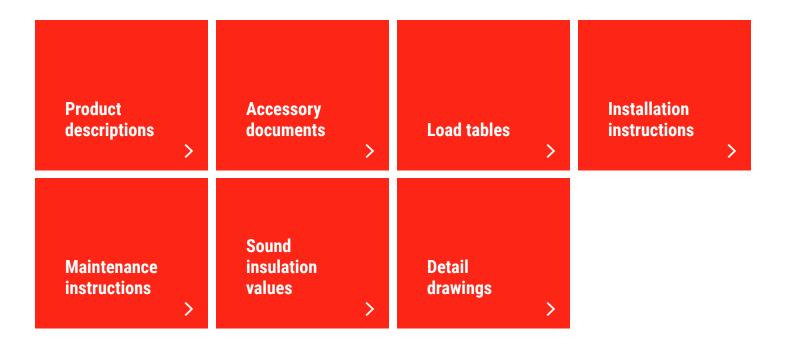
Download BIM objects to your desktop

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.

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.



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.



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