

### Sandwich panel SP2E E-PIR

Sandwich panel **SP2E E-PIR** is available in thicknesses 120 - 200 mm.

**Low U-value** and proper joint design together with wide thickness range make this sandwich panel an ideal solution for **cold storage** buildings.

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.

#### **Applications:**

- · External walls
- Internal walls
- Ceilings



# **Properties**

Model name	Sandwich panel SP2E E-PIR
Standard module width	1100 mm
Optional module width (B)	1000 (D = 120 mm)
Minimum length	2000 mm
Maximum Length	18500 mm
External facing thickness	0.5 mm
Internal facing thickness	0.5 mm
External Fire Exposure	NRO

Thickness D (mm)	120	140	160	180	200
Weight (kg/m²)	13	13.7	14.5	15.4	16.2
U-value (W/m <sup>2</sup> K)	0.18	0.15	0.14	0.12	0.11
Sound insulation Rw (dB)	24	24	24	25	25
Reaction to fire	B-s2, d0				

Wall fire resistance values & max span horizontal / vertical orientation (m):	120	140	160	180	200
El 15	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5	7.5 / 7.5
El 30	4.0 / 4.0	4.0 / 4.0	4.0 / 4.0	4.0 / 4.0	4.0 / 4.0
EW 30	4.0 / 4.0	4.0 / 4.0	4.0 / 4.0	4.0 / 4.0	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**

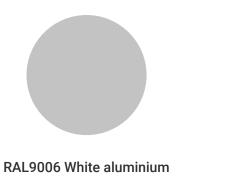
Faci ng	Coating	Corrosi on class	UV resi stance	Colours
Ext ern al	GreenCoat H IARC MAX	C4	Ruv4	RAL7035, RAL9006 (RR40), RAL9007 (RR41)
Ext ern al	Polyester	C3	Ruv2-3	RAL1015, RAL3009 (RR29), RAL7015 (RR23), RAL7016 (RR288), RAL 7035, RAL9002, RAL9006, RAL9007, RAL9010
Inte rnal	Polyester	C3	-	RAL9002, RAL9010
Inte rna I	PVC laminat e *	C4	-	White

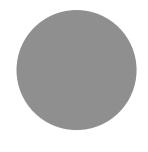
#### \*) optional material

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.









RAL9007 Grey aluminium

RAL9010 White

For external facings of 1000 mm module width only the following colors are available: RAL1015, RAL5005, RAL7015 (RR23), RAL7035, RAL9002, RAL9006, RAL9007, RAL9010.

### **Profile options**



Ribbed R550



Ribbed R275



Linear L25



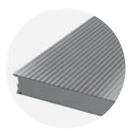
Linear L



Micro M



Flat F



Ribbed R28

Modular width	Facing	Profile options		
1100mm	External	L, L25, M, R28, R275, R550, F		
	Internal	L, L25, F		

1000mm	External	L, L25, M
	Internal	L, L25

L25 available only for panel thicknesses 120,140,160 mm.

### **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®

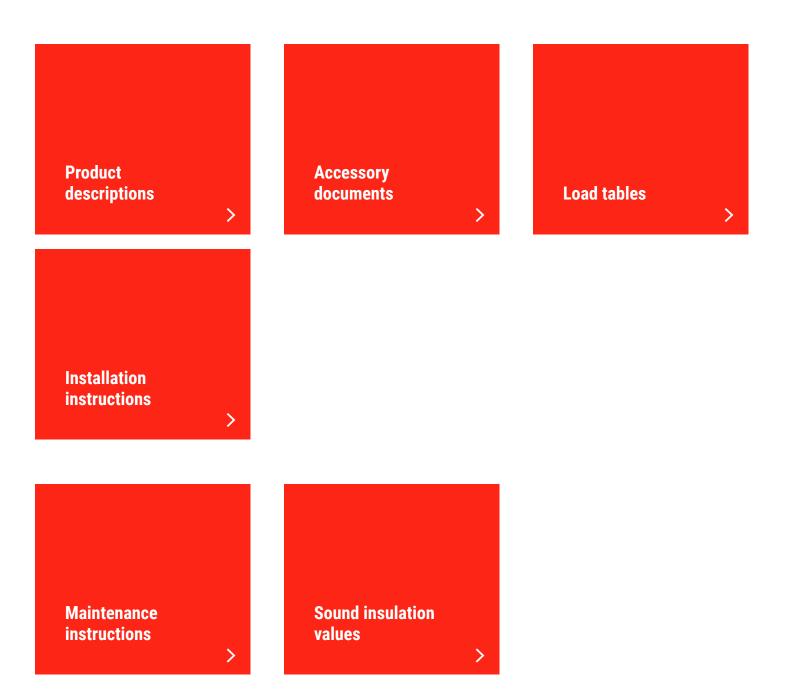
### **Download BIM objects to your desktop**

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.

