
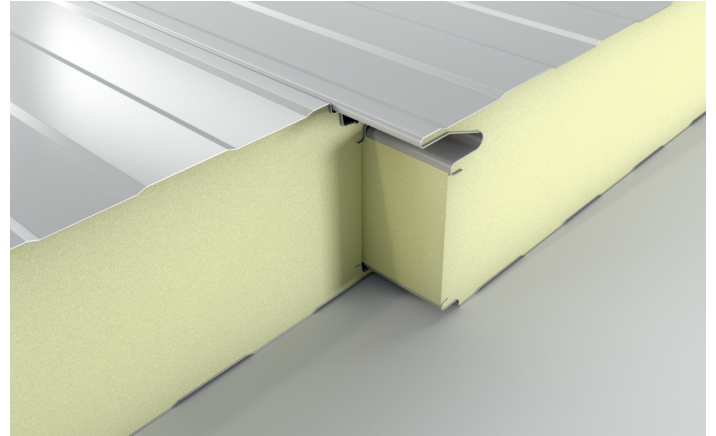
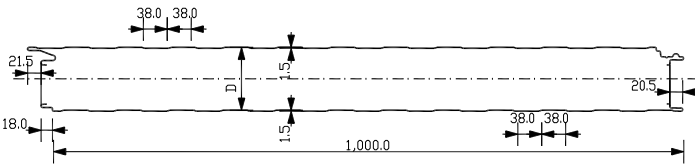
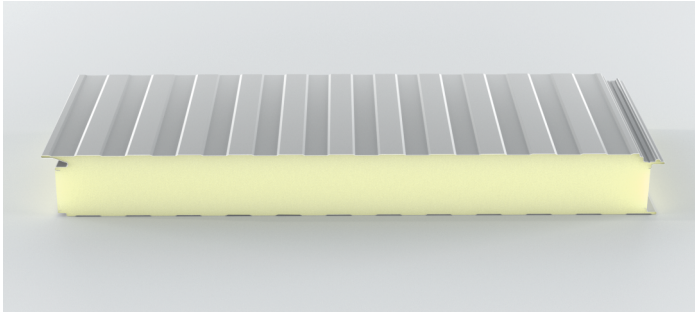


ISOPERa PUR/PIR (RF, XV)

 Made in Romania



PRODUCT:

Thermal insulating wall panel with hidden joint.

INTENDED USE:

Exterior walls / wall cladding / separating walls / ceilings inside the building envelope. These types of panels can be mounted both horizontally and vertically.

MICROFILES:

- Type I - STANDARD-STANDARD
- Type II - STANDARD+PLISSE
- Type III - STANDARD+LIS / LIS+STANDARD
- Type IV - LIS+PLISSE
- Type V - LIS+LIS

CORE:

CORE TYPE	PRODUCT TYPE
PUR	ISOPERa
PIR (RF)	ISOPERa RF
PIR (XV)	ISOPERa XV

MAIN CHARACTERISTICS:

a) Metal faces with polyester coating (SP):

- Exterior face: steel 0,50 mm; S250GD (EN 10346); coating SP/25µm; normal tolerances
- Interior face: steel 0,40 mm; S250GD (EN 10346); coating SP/25µm; normal tolerances
- The thickness is referred to after galvanizing and painting procedures

b) Metal faces with PVC coating:

ISOSANO type wall panels - with one or both sides covered with PVC film:

- Metal layer: steel, S250 GD, thickness 0,50mm
- PVC film coating, thickness 150µm

Use in the food industry and applications with strict hygiene (laboratories, pharmaceutical industry, etc.)

c) Insulating layer:

- Average density: 35 ÷ 40 [kg/m³]
- Thermal conductivity: $\lambda=0.0224$ [W/mK]

d) Reaction to fire:

- Classification: F for the PUR insulating core
- Classification: B-s2,d0 for the PIR (RF) insulating core
- Classification: B-s2,d0 for the PIR (XV) insulating core
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e) Fire resistance:



Insulating core PIR (RF)

ISOPERa RF	Partition EI30 E60 EW60 Exterior wall EI30 E60 EW60 (0<->i)	Valid for D=80; 100; 120mm (hidden joint)
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Insulating core PIR (XV)

ISOPERa XV	Partition EI20 E60 Exterior wall EI15 E60 (0<->i)	Valid for D=80; 100; 120mm (hidden joint)
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We recommend the project details to be discussed with the technical department or sales manager.

AVAILABLE DIMENSIONS:

DIMENSIONS	PERMISSIBLE DEVIATIONS
Length: 2000-13500 [mm]	± 5 mm for L≤3 m ± 10 mm for L>3 m
Width: 1000 [mm]	± 2 mm
Thickness: 40-120 [mm]	± 2mm for D≤100 mm ± 2% for D>100 mm
Deviation from perpendicularity	6 mm

Note: For lengths less than 2.000 mm, consult the technical department.

PERMISSIBLE LOADS:

D [mm]	Weight [kg/m ²]	U* [w/m ² K]																	
				Calculation values, wind load at pressure [kN/m ²]															
		U1	U2	0,75	1,50	2,25	3,00	3,38	4,13	4,88	0,75	1,50	2,25	3,00	3,38	4,13	4,88		
		Permitted distance between supports [m]																	
40	8,64	0,58	0,50	3,85	2,95	2,41	1,81	1,61	1,32	1,11	4,17	2,95	2,41	1,81	1,61	1,32	1,11		
50	9,03	0,46	0,41	4,62	3,29	2,69	2,29	2,04	1,67	1,41	4,65	3,29	2,69	2,29	2,04	1,67	1,41		
60	9,42	0,37	0,35	5,05	3,57	2,92	2,53	2,38	2,02	1,71	5,05	3,57	2,92	2,53	2,38	2,02	1,71		
80	10,13	0,28	0,26	5,38	3,81	3,11	2,69	2,54	2,30	2,11	5,38	3,81	3,11	2,69	2,54	2,30	2,11		
100	10,91	0,22	0,21	5,77	4,08	3,33	2,89	2,72	2,46	2,27	5,77	4,08	3,33	2,89	2,72	2,46	2,27		
120	11,72	0,19	0,18	6,26	4,42	3,61	3,13	2,95	2,67	2,46	6,26	4,42	3,61	3,13	2,95	2,67	2,46		

U* - Heat transfer coefficient;

U1 - Heat transfer coefficient, considering the panel's profile geometry and the thermal influence of the joint.

U2 - Heat transfer coefficient, considering the panel's profile geometry.

*Calculation according to EN 14509:2013, Method A.10.

ASSEMBLY:

The assembly is performed according to the Assembly Instructions provided by the producer.

The panels and materials used in the assembly are not dangerous for the environment.

The waste resulting after the assembly, and at the end of the use of the constructions, is collected by type of material and handed over to specialized companies for their takeover.

The products bear the **CE** marking – harmonized standard **EN 14509:2013**.