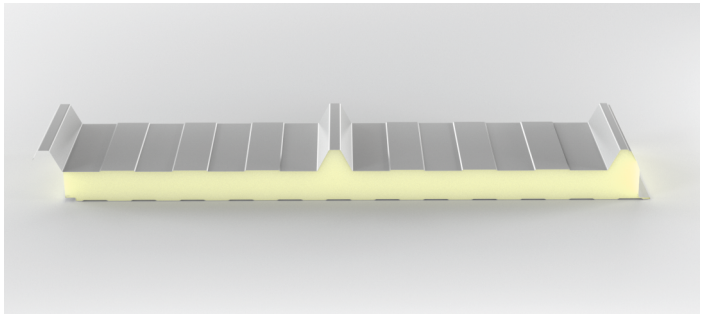
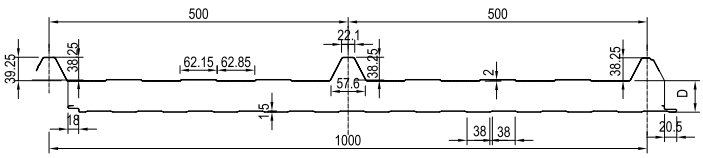
TECHNICAL DATA SHEET

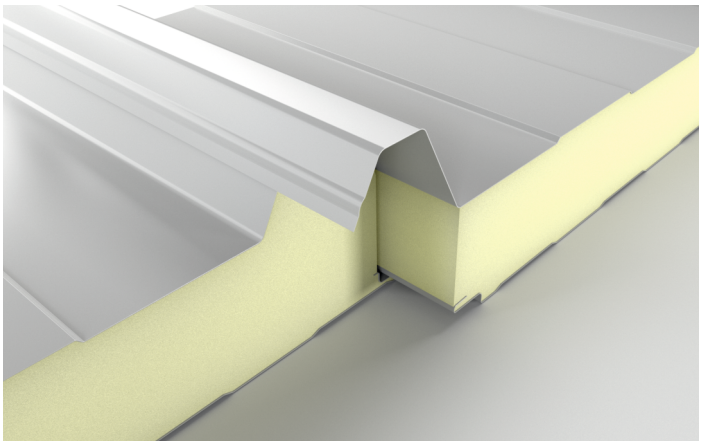
TeraSteel®
BUILD BETTER

ISOAC3 PUR/PIR (RF)

Made in Romania







PRODUCT:

Thermal insulating roof panel with 3 ribs.

INTENDED USE:

Roof and roof cladding.
Products intended for buildings with roof slopes of more than 7%.

CORE:

CORE TYPE	PRODUCT TYPE
PUR	ISOAC3
PIR (RF)	ISOAC3 RF

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

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b) Insulating layer:

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

c) Reaction to fire:

- Classification: F for insulating core PUR
- Classification: B-s2,d0 for insulating core PIR (RF)

d) Fire resistance:

Insulating core PIR (RF)						
ROOF TYPE	Thickness [mm]					
	50	60	80	100	120	150
ISOAC3 RF	REI15 RE30	REI15 RE30	REI30 RE30	REI30 RE30	REI30 RE30	REI30 RE30

We recommend the project details to be discussed with the technical department or sales manager.

AVAILABLE DIMENSIONS:

DIMENSIONS	PERMISSIBLE DEVIATIONS
Lenght: 2000-13500 [mm]	± 5 mm for L≤3 m ± 10 mm for L>3 m
Width: 1000 [mm]	± 2 mm
Thickness: 30-150 [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, snow load [kN/m2]												
				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
		U1	U2	Permitted distance between supports [m]													
30	8,40	0,68	0,65	2,46	1,62	1,28	1,09	1,02	0,91	0,84	2,46	1,62	1,28	1,09	1,02	0,91	0,84
40	8,79	0,52	0,50	2,93	1,83	1,39	1,16	1,08	0,96	0,87	2,93	1,83	1,39	1,16	1,08	0,96	0,87
50	9,18	0,43	0,41	3,60	2,18	1,59	1,29	1,19	1,04	0,93	3,19	2,16	1,59	1,29	1,19	1,04	0,93
60	9,57	0,36	0,35	4,08	2,45	1,72	1,36	1,24	1,07	0,95	3,34	2,32	1,72	1,36	1,24	1,07	0,95
80	10,28	0,27	0,26	5,19	3,23	2,23	1,66	1,47	1,22	1,06	3,63	2,38	1,87	1,58	1,47	1,22	1,06
100	11,04	0,22	0,21	5,97	3,82	2,62	1,88	1,64	1,32	1,13	3,78	2,47	1,93	1,63	1,52	1,32	1,13
120	11,80	0,18	0,18	6,53	4,26	3,00	2,15	1,85	1,44	1,20	3,80	2,53	1,98	1,67	1,56	1,39	1,20
150	13,10	0,15	0,14	7,37	4,92	3,57	2,56	2,17	1,62	1,31	7,37	4,92	3,57	2,56	2,17	1,62	1,31

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.**

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