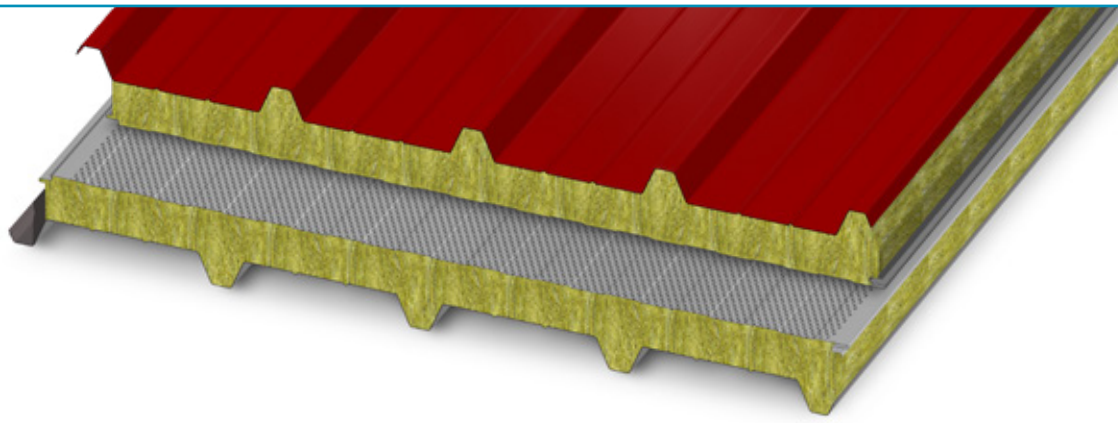
ISOFIRE ROOF FONO

Roof Panel / Isopan production in Europe



Features

Self-supporting roof panel in double steel sheet and mineral wool core, for roofs with a slope of not less than 7%. External 5-ribbed sheet to increase static and dynamic resistance. Internal micro-perforated steel sheet to increase the acoustic insulation of the panel.

Options

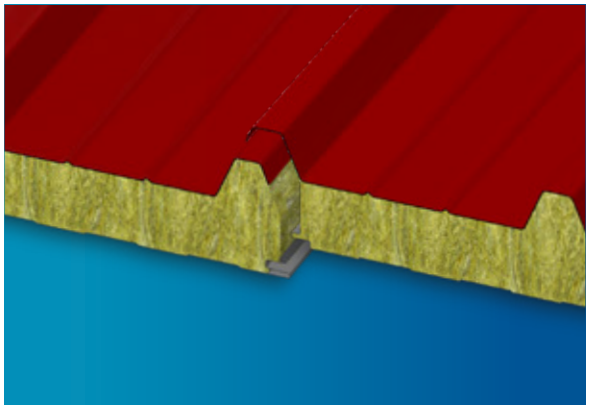
Isofire Roof Fono has an internal micro perforated sheet support capable of increasing the sound absorbing performance of the panel, reducing the decibel level depending on the thickness, ideal for machine rooms or processing rooms.

Benefits

- Double steel sheet faced panel
- Fire resistant rock wool
- Exposed fastening joint
- Ribbed profile for higher strength
- Sound absorbing

Specifications

Standard Lenght:	Maximum length of 19¾ (6m)
Width	39 ⅜ " - 1000 mm
Joint:	Interconnecting male/female
Thickness (m):	50, 60, 80, 100, 120, 150
Exterior Face	Pre-painted Zinc Coated Steel (EN 10346)
Interior Face:	Micro-perforated steel
Foam Density:	100 kg/m³
Exterior Finish:	Polyester coating
Interior Finish:	Polyester coating
Joint Type:	Exposed / Fastening clips



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Overload Wheelbase

Kg/m²	Panel nominal tickness (mm) 50	60	80	100	120	150
	Sheets 0,5mm / 0,5mm - Support 120 mm					
80	285	310	365	410	455	475
100	265	285	325	365	415	430
120	230	260	300	335	375	410
140	220	230	270	310	350	365
160	200	220	250	275	315	335
180	180	200	230	265	295	310
200	165	180	220	250	275	295
220	160	170	205	230	255	280
250	140	160	185	215	235	250

Overload Wheelbase

Kg/m²	Panel nominal tickness (mm) 50	60	80	100	120	150
	Sheets 0,6mm / 0,6mm - 120 mm support					
80	300	325	370	430	470	515
100	270	295	340	385	430	465
120	240	265	305	350	390	420
140	225	250	280	320	360	380
160	210	225	260	295	325	350
180	200	210	240	270	300	330
200	180	200	230	260	285	300
220	165	190	215	240	265	285
250	145	165	200	225	250	260

Thermal Insulation

According to standard EN 14508 A.10

U	50	60	80	100	120	150
W/m²·K	0.78	0.66	0.50	0.41	0.34	0.28
Kcal/m²·h·°C	0.67	0.57	0.43	0.35	0.29	0.24
K	**50**	**60**	**80**	**100**	**120**	**150**
W/m²·K	0.72	0.61	0.44	0.36	0.30	0.25
Kcal/m²·h·°C	0.64	0.52	0.38	0.32	0.26	0.22

Fire Reaction and Resistance

See page 13 & 14

Acoustic Behavior

See page 13 & 14

Panel Weight

Steel Thickness	50	60	80	100	120	150
	Values in kg/m²					
0.5 / 0.5	13.9	14.9	16.9	18.9	20.9	23.9
0.6 / 0,6	15.7	16.7	18.7	20.7	22.7	25.7

Dimensional Tolerance

L = Length, D = Thickness, F = Support

Lenght	L ≤ 3 m ± 5 mm L > 3 m ± 10 mm	Perpendicularity Deviation	6 mm
Working Lenght	± 2 mm	Misalignment of the internal metal surfaces	± 3 mm
Thickness	D ≤ 100 mm ± 2mm D > 100 mm ± 2%	Bottom Sheet Coupling	F = 0 +3 mm

Joint Section