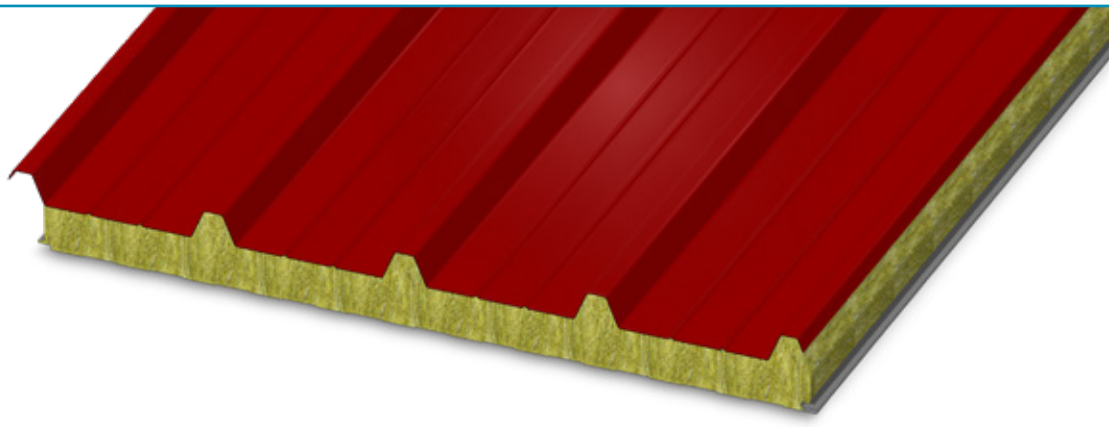
ISOFIRE ROOF

Roof Panel / Isopan production in Europe



Features

Self-supporting roof panel with double steel sheet and mineral wool core, for roofs with a slope of not less than 7%.
5-ridge profiled external sheet to increase resistance for static and dynamic loads. Visible fastening and clips with gasket.

Options

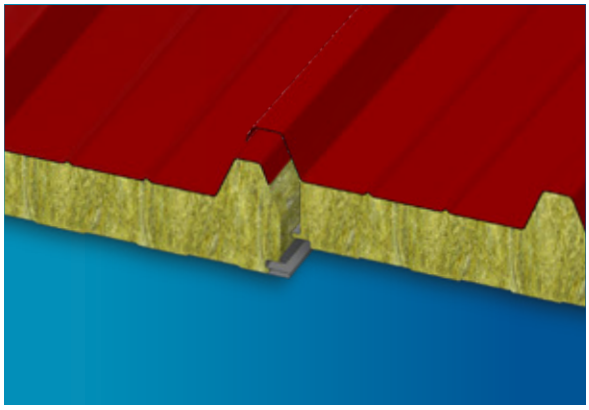
Isofire Roof is a roofing panel suitable for new construction and renovation of industrial and commercial buildings. The rock wool insulation provides strength and protection in case of fire.

Benefits

- Double sheet metal faced panel
- Fire resistant mineral wool
- Exposed fastening joint
- Ribbed profile for greater strength

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, 170, 200
Exterior Face	Pre-painted Zinc Coated Steel (EN 10346)
Interior Face:	Pre-painted Zinc Coated Steel (EN 10346)
Foam Density:	100 kg/m^3
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	170	200
	Sheets 0,5mm / 0,5mm - Support 120 mm							
80	330	360	420	475	525	550	560	570
100	305	330	375	425	480	495	500	510
120	270	300	345	390	435	475	480	490
140	255	270	315	360	405	420	425	435
160	235	255	290	320	365	390	395	405
180	210	235	270	305	340	360	365	370
200	195	210	255	290	320	340	345	350
220	185	200	240	265	295	325	330	335
250	165	185	215	250	275	290	295	300

Overload Wheelbase

Kg/m²	Panel nominal tickness (mm) 50	60	80	100	120	150	170	200
	Sheets 0,6mm / 0,6mm - Support 120 mm							
80	350	375	430	495	545	595	605	615
100	315	340	395	445	495	540	550	560
120	280	310	355	405	450	485	490	495
140	260	290	325	370	415	440	445	450
160	245	260	300	340	375	405	410	415
180	230	245	280	315	345	380	385	390
200	210	230	265	300	330	350	355	360
220	195	220	250	280	310	330	335	340
250	170	195	230	260	290	300	305	310

Thermal Insulation

According to standard EN 14508 A.10

U	50	60	80	100	120	150	170	200
W/m²·K	0.78	0.66	0.50	0.41	0.34	0.28	0.24	0.20
Kcal/m²·h·°C	0.67	0.57	0.43	0.35	0.29	0.24	0.21	0.17
K	**50**	**60**	**80**	**100**	**120**	**150**	**170**	**150**
W/m²·K	0.72	0.61	0.44	0.36	0.30	0.25	0.22	0.19
Kcal/m²·h·°C	0.64	0.52	0.38	0.32	0.26	0.22	0.19	0.16

Fire Reaction and Resistance

See page 13 & 14

Panel Weight

Steel thickness	50	60	80	100	120	150	170	200
	Values in kg/m²							
0.5/0.5	14.4	15.4	17.4	19.4	21.4	24.4	26.4	29.4
0.6/0,6	16.2	17.2	19.2	21.2	23.2	26.2	28.2	31.2

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