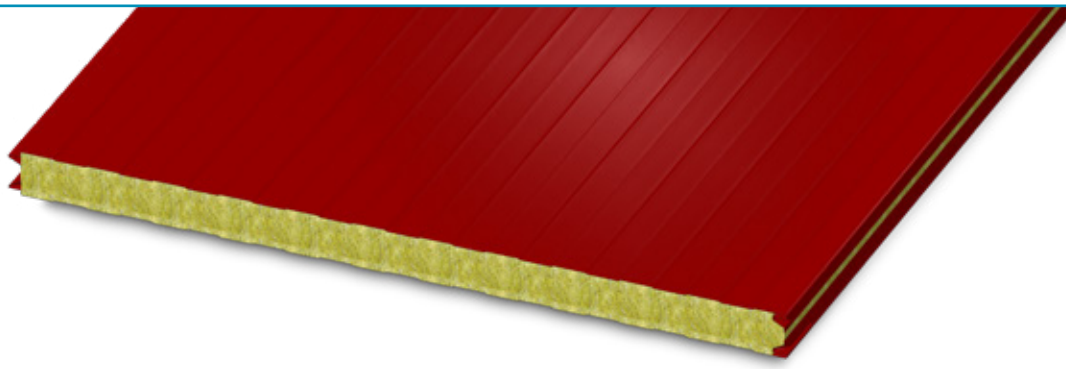
ISOFIRE WALL

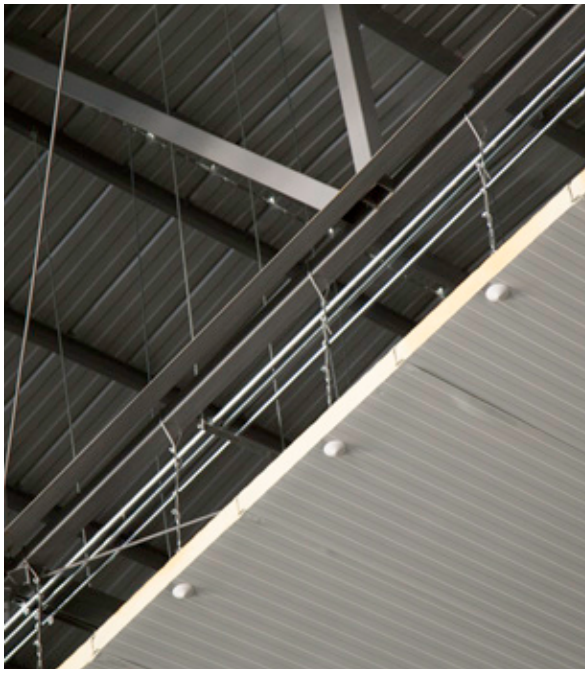
Wall Panel / Isopan production in Europe

Exposed Fastening



Features

Self-supporting wall panel with double steel sheet and mineral wool core. The tongue-and-groove joint is made by exposed through screws and fasteners along the supports.



Options

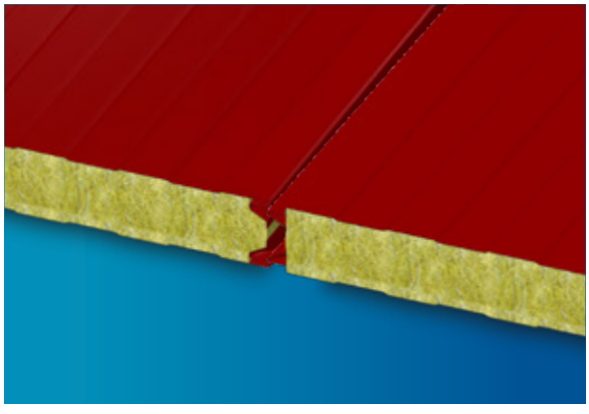
Isofire Wall is a insulated metal panel used in industrial and commercial building walls. It has tongue-and-groove joints and visible fastening. The mineral wool insulation makes it an excellent fire resistant.

Benefits

- Double sheet metal paneling
- Fire resistant mineral wool
- Versatility to be installed vertically or horizontally
- Reaction to fire according to A2-S1-D0 class

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, 240
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



ISOFIRE WALL

Exposed Fastening

Overload Wheelbase

Panel nominal tickness (mm)

Kg/m²	50	60	80	100	120	150	170	200	240
(Thickness less than 100mm) Sheets 0,5mm / 0,5mm - Support 120 mm									
50	440	480	540	610	670	755	805	890	960
60	390	430	495	570	625	700	750	825	895
80	310	355	425	500	550	615	650	715	770
100	250	295	365	440	490	550	580	6.30	680
120	210	250	315	385	435	495	525	565	610
140	180	210	275	340	390	440	475	510	550
160	160	185	245	300	350	400	435	465	500
180	145	165	220	270	320	360	395	425	450
200	130	150	205	250	295	330	360	390	415
Sheets 0,6mm / 0,6mm - Support 120 mm									
50	490	520	600	675	720	800	860	935	980
60	425	470	545	635	685	755	810	870	920
80	335	380	465	550	605	670	720	760	820
100	265	310	385	460	525	585	630	665	730
120	235	270	330	410	470	525	560	595	645
140	200	230	290	360	415	470	505	535	570
160	175	210	260	315	370	415	445	480	520
180	160	190	230	275	335	375	405	430	470
200	140	165	210	255	305	335	365	400	430

Overload Wheelbase

Panel nominal tickness (mm)

Kg/m²	50	60	80	100	120	150	150	200	200
(Thickness less than 100mm) Sheets 0,5mm / 0,5mm - Support 120 mm									
50	390	420	460	500	540	580	630	670	700
60	345	380	415	450	490	520	550	585	620
80	270	310	345	370	400	425	450	485	520
100	210	250	285	310	335	355	375	405	430
120	180	205	240	265	285	305	325	350	370
140	155	175	210	230	250	265	280	300	320
160	130	155	185	205	220	230	245	265	290
180	120	135	165	180	195	205	220	240	260
200	110	120	150	165	180	190	205	220	240
Sheets 0,6mm / 0,6mm - Support 120 mm									
50	430	460	500	540	580	610	650	680	710
60	375	415	455	490	530	560	590	615	640
80	290	330	375	405	440	465	495	515	545
100	220	260	300	330	360	380	405	425	455
120	190	220	250	280	305	325	345	365	390
140	160	190	220	240	265	280	300	320	340
160	140	165	195	215	230	245	265	280	300
180	130	150	175	195	210	225	240	255	275
200	115	135	160	180	195	210	225	240	260

Thermal Insulation

According to standard EN 14508 A.10

U	50	60	80	100	120	150	170	200	240
W/m²·K	0.75	0.63	0.49	0.39	0.33	0.27	0.24	0.20	0.17
Kcal/m²·h·°C	0.65	0.54	0.42	0.34	0.28	0.23	0.21	0.17	0.15
K	**50**	**60**	**80**	**100**	**120**	**150**	**170**	**200**	**240**
W/m²·K	0.75	0.64	0.50	0.40	0.33	0.27	0.24	0.20	0.17
Kcal/m²·h·°C	0.67	0.55	0.4	0.35	0.30	0.24	0.21	0.17	0.15

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

Panel Weight

Steel thickness	50	60	80	100	120	150	170	200	240
	Values in kg/m²								
0.5 / 0.5	13.2	14.2	16.2	18.2	20.2	23.2	25.2	28.2	32.2
0.6 / 0,6	14.9	15.9	17.9	19.9	21.9	24.9	26.9	28.9	32.9

Fire Reaction and Resistance

See page 13 & 14

Joint Section