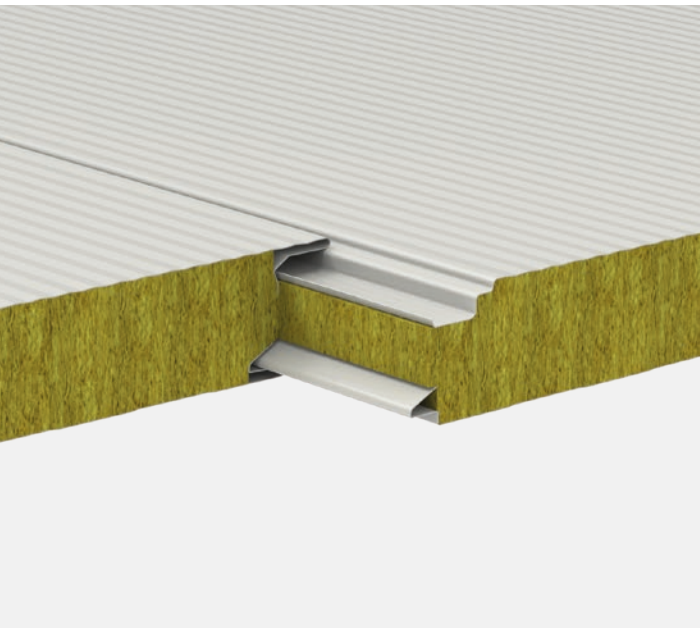


Concealed Fastener



Specifications

Lenght:	Maximum recommended 40'
Width:	★ 39 3/8" - 100 cm
Thickness:	50*, 60*, 80*, 100, 120, 150, 170, 200 (mm)
Foam Core:	Mineral Wool - 100 kg/m ³
Joint Type:	Tongue and Groove - Hidden
Gasket:	Open Cell Gasket
Steel Gauge:	External: 0,5 - 0,6 mm - Internal: 0,5 - 0,6 mm
Coating:	Polyester Std. G60
Orientation:	Vertical - Horizontal

Other Paint systems available upon demand. For trims and accessories, ask your sales rep or contact Isocindu for more information and availability.

(*) These thicknesses are the minimum production requirement.

Features

Self-supporting all panel with double steel sheet, mineral wool core and striated external face. Hidden fastening joint with pass-through screw.

Options

Isofire Wall is a insulated metal panel used in industrial and commercial building walls, the straited profile external face offers an architectural finish. The joint is characterized by a hidden fastening system. The mineral wool insulation makes it an excellent fire resistant.

Benefits

- Non combustible
- Hidden fastening for aesthetic appearance
- Sound Absortion
- Versatility to be installed vertically or horizontally
- Reaction to fire according to A2-S1-D0 class

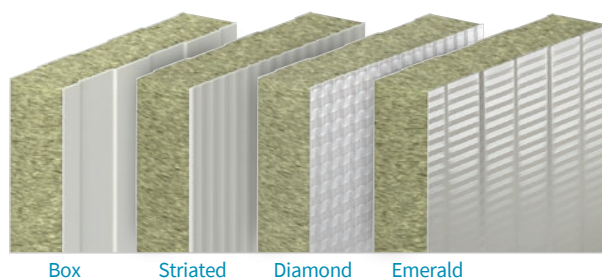
 Designed to provide fire protection from 1 to 3 hours for industrial and commercial buildings

Suitable for

-  **Industrial:** Warehouse, Factories, Manufacturing Facilities
-  **Cold Chain:** Cold Chambers, Food Processing
-  **Commercial:** Offices, Malls, Convention Centers
-  **Architectural:** Schools, Atriums, Halls
-  **Specialized:** Green Building, Data Centers, Grain Sheds

Face Profiles

Striated and flat profiles, it's recommended to use 24 gauge or higher.



Concealed Fastener

Load Chart

Distance Between 2 Simple Supports								
Panel nominal thickness (mm)								
Kg/m ²	50	60	80	100	120	150	170	200
Sheets 0,5mm / 0,5mm - Support 120 mm								
50	440	480	540	610	670	755	805	890
60	390	430	495	570	625	700	750	825
80	310	355	425	500	550	615	650	715
100	250	295	365	440	490	550	580	630
120	210	250	315	385	435	495	525	565
140	180	210	275	340	390	440	475	510
160	160	185	245	300	350	400	435	465
180	145	165	220	270	320	360	395	425
200	130	150	205	250	295	330	360	390
Sheets 0,6mm / 0,6mm - Support 120 mm								
50	490	520	600	675	720	800	860	935
60	425	470	475	635	685	755	810	870
80	335	380	410	550	605	670	720	760
100	265	310	365	460	525	585	630	665
120	235	270	355	410	470	525	560	595
140	200	230	325	360	415	470	505	535
160	175	210	275	315	370	415	445	480
180	160	190	255	275	335	375	405	430
200	140	165	235	255	305	335	365	400

Distance Between Multiple Supports								
Panel nominal thickness (mm)								
Kg/m ²	50	60	80	100	120	150	170	200
Sheets 0,5mm / 0,5mm - Support 120 mm								
50	390	420	460	500	540	580	630	670
60	345	380	415	450	490	520	550	585
80	270	310	345	370	400	425	450	485
100	210	250	285	310	335	355	375	405
120	180	205	240	265	285	305	325	350
140	155	175	210	230	250	265	280	300
160	130	155	185	205	220	230	245	265
180	120	135	165	180	195	205	220	240
200	110	120	150	165	180	190	205	220
Sheets 0,6mm / 0,6mm - Support 120 mm								
50	430	460	500	540	580	610	650	680
60	375	415	455	490	530	560	590	615
80	290	330	375	405	440	465	495	515
100	220	260	300	330	360	380	405	425
120	190	220	250	280	305	325	345	365
140	160	190	220	240	265	280	300	320
160	140	165	195	215	230	245	265	280
180	130	150	175	195	210	225	240	255
200	115	135	160	180	195	210	225	240

Thermal Insulation

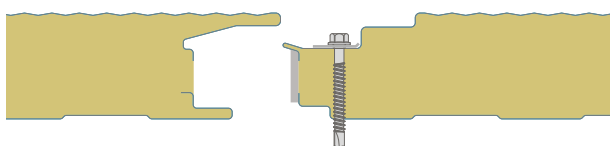
According to standard EN 14508 A.10

U	50	60	80	100	120	150	170	200
W/m ² ·K	0.86	0.72	0.52	0.41	0.35	0.28	0.24	0.20
Kcal/m ² ·h·°C	0.73	0.62	0.44	0.36	0.30	0.24	0.21	0.17
K	50	60	80	100	120	150	170	200
W/m ² ·K	0.75	0.64	0.50	0.40	0.33	0.27	0.24	0.20
Kcal/m ² ·h·°C	0.67	0.55	0.44	0.35	0.30	0.24	0.21	0.17

Panel Weight

Steel thickness	50	60	80	100	120	150	170	200
Values in kg/m ²								
0,5 / 0,5	13.2	14.2	16.2	18.2	20.2	23.2	25.2	28.2
0,6 / 0,6	14.9	15.9	17.9	19.9	21.9	24.9	26.9	29.9

Joint Section



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

L = working length, D = panel thickness, F = sheet coupling

Fire Reaction and Resistance

See page 14 & 15



Isofire wall is FM (Factory Mutual) certified in standards 4880 and 4881.
For equivalent certifications and testings contact your sales agent