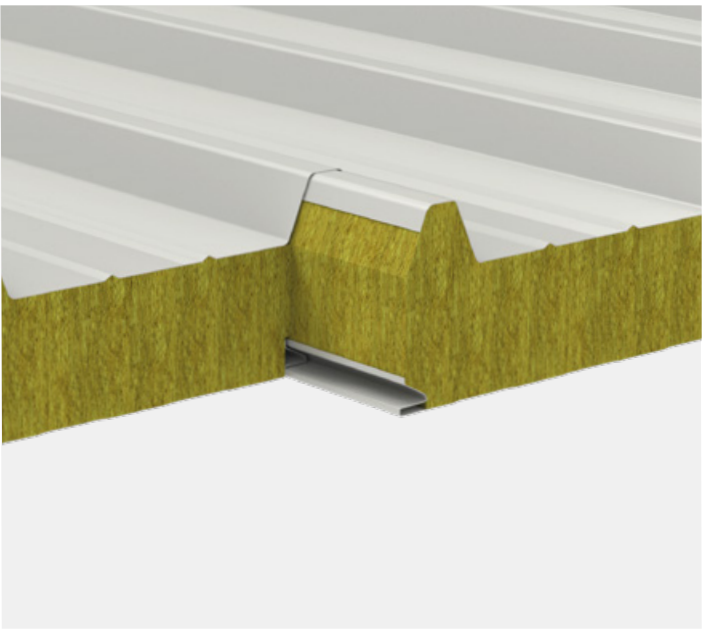
ISOFIRE ROOF

Fire Resistance Roof Panel



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

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

Specifications

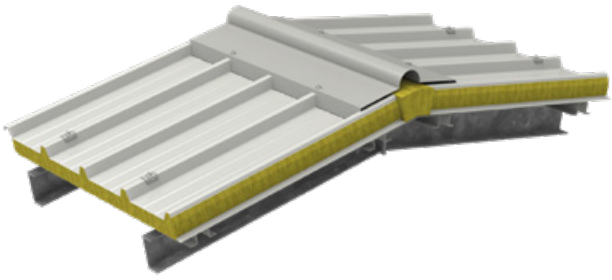
Lengtht:	Maximum recommended 40 ft
Width:	★ 39 ⅜” - 100 cm
Thickness:	50* 2” | 60* 2½” | 80* 3” | 100 4” | 120 4⅝” | 150 6” | 170 6⅔” | 200 (mm) 8” (in)
Foam Core :	Mineral Wool - 100 kg/m^3 - 6.24 PCF
Joint Type:	Tongue and Groove - Exposed
Gasket:	Open Cell Gasket
Steel Gauge:	**External:** 26 GA - 24 GA - **Internal:** 26 GA - 24 GA
Coating:	Polyester Std. G60
Std. Coating:	USDA Approved
Orientation:	Roof and wall

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.

Suitable for

- Industrial: Warehouse, Factories, Distribution Centers
- Commercial: Offices, Malls, Convention Centers
- Architectural: Schools, Halls, Government
- Specialized: Green Building, Data Centers, Grain Sheds



Load Chart

Distance Between 2 Simple Supports
Panel nominal thickness (mm - in)

psf	50 2”	60 2½”	80 3”	100 4”	120 4 5/7”	150 6”	170 6⅔”	200 8”
	Sheets 26 GA / 26 GA - Support 4 5/7” - inches							
16.39	13	14 3/16	16 9/16	18 11/16	20 11/16	21 10/16	22 1/16	22 7/16
20.48	12	13	14 12/16	16 12/16	18 14/16	19 8/16	19 11/16	20 1/16
24.58	10 10/16	11 13/16	13 9/16	15 6/16	17 2/16	18 11/16	18 14/16	19 5/16
30.72	10 1/16	10 10/16	12 6/16	14 3/16	15 15/16	16 9/16	16 12/16	17 2/16
32.77	9 4/16	10 1/16	11 7/16	12 10/16	14 6/16	15 6/16	15 9/16	15 15/16
36.87	8 4/16	9 4/16	10 10/16	12	13 6/16	14 3/16	14 6/16	14 9/16
40.96	7 11/16	8 4/16	10 1/16	11 7/16	12 10/16	13 6/16	13 9/16	13 12/16
45.06	7 5/16	7 14/16	9 7/16	10 7/16	11 10/16	12 13/16	13	13 3/16
51.20	6 8/16	7 5/16	8 7/16	9 13/16	10 13/16	11 7/16	11 10/16	11 13/16

Distance Between Multiple Supports
Panel nominal thickness (mm - in)

psf	50 2”	60 2½”	80 3”	100 4”	120 4 5/7”	150 6”	170 6⅔”	200 8”
	Sheets 24 GA / 24 GA - Support 4 5/7” - inches							
16.39	13 12/16	14 12/16	16 15/16	19 8/16	21 7/16	23 7/16	23 13/16	24 3/16
20.48	12 6/16	13 6/16	15 9/16	17 8/16	19 8/16	21 4/16	21 10/16	22 1/16
24.58	11	12 3/16	14	15 15/16	17 11/16	19 2/16	19 5/16	19 8/16
30.72	10 4/16	11 7/16	12 13/16	14 9/16	16 5/16	17 5/16	17 8/16	17 11/16
32.77	9 10/16	10 4/16	11 13/16	13 6/16	14 12/16	15 15/16	16 2/16	16 5/16
36.87	9 1/16	9 10/16	11	12 6/16	13 9/16	14 15/16	15 3/16	15 6/16
40.96	8 4/16	9 1/16	10 7/16	11 13/16	13	13 12/16	14	14 3/16
45.06	7 11/16	8 11/16	9 13/16	11	12 3/16	13	13 3/16	13 6/16
51.20	6 11/16	7 11/16	9 1/16	10 4/16	11 7/16	11 13/16	12	12 3/16

Thermal Insulation

According to standard EN 14509

R	2”	2½”	3”	4”	4 5/7”	6”	6⅔”	8”
W/m²·K	1.33	1.56	2.00	2.50	3.03	3.70	4.17	5.00
Btu/hft²°F	7.57	8.87	11.36	14.20	17.21	21.03	23.66	28.39
U	**2”**	**2½”**	**3”**	**4”**	**4 5/7”**	**6”**	**6⅔”**	**8”**
W/m²·K	0.75	0.64	0.50	0.40	0.33	0.27	0.24	0.20
Btu/hft²°F	0.13	0.11	0.90	0.07	0.06	0.047	0.042	0.035

Fire Reaction and Resistance

See page 14 & 15

FM APPROVED

Isofire wall is FM (Factory Mutual) certified in standards 4880 and 4471.
For equivalent certifications and testings contact your sales agent

Panel Weight

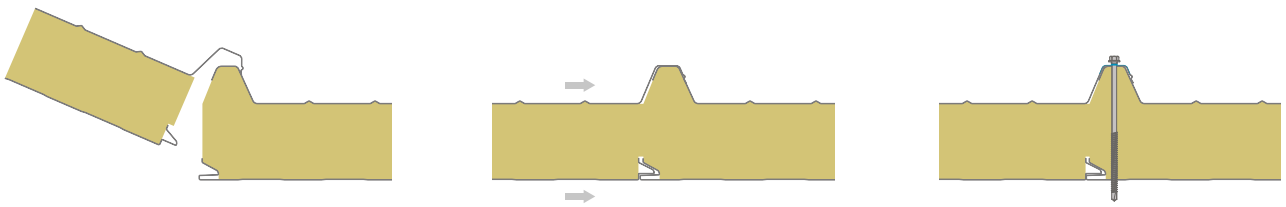
Steel thickness	2”	2½”	3”	4”	4 5/7”	6”	6⅔”	8”
	Values in psf							
26 / 26 ga	2.95	3.15	3.56	3.97	4.38	5.00	5.41	6.02
24 / 24 ga	3.32	3.52	3.93	4.34	4.75	5.37	5.78	6.39

Dimensional Tolerance

Length	L ≤ 9’ 10” ± 1/8” L > 9’ 10” ± 3/8”	Perpendicularity Deviation	1/4”
Working Length	± 1/16”	Misalignment of the internal metal surfaces	± 1/8”
Thickness	D ≤ 4” ± 1 1/16” D > 4” ± 2%	Bottom Sheet Coupling	F = 1 +1/8”

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

Joint Section



1 2 3