

## Insulfoil Wall Product Description

Insulfoil Wall: a panel manufactured to be installed as a wall within enclosures of different types of buildings, such as shopping malls, supermarkets, industrial warehouses, etc.

## Applications

Insulfoil Wall is used for the lining of elements where structural loads are minimal.

## Advantages

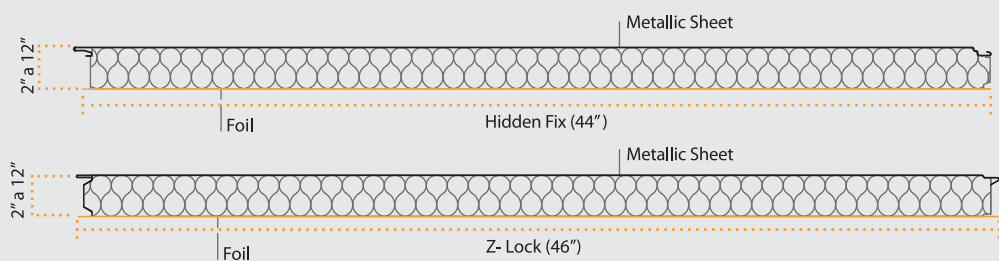
- Watertight
- Economical
- Lightweight and easy to install
- Weather-resistant
- Aesthetic

## Features

- **Core**  
16 kg / m<sup>3</sup> (1lb / ft<sup>3</sup>) self-extinguishing expanded polystyrene (EPS), available in thicknesses from 2" to 12".
- **Exterior Face**  
Aluminum-zinc alloy or galvanized az 120 (astm a 792) 26 gauge. Coating is pre-painted going through a drying oven process; color availability is in white or sand. The finished can be smooth or embossed. The type of profile (mini ribs, table or no profile) may be chosen for one or both sides (see page 10 of Insulpanel Manual).
- **Interior Face**  
Metalized polypropylene film, reinforced with white fiberglass and polyester mesh, commonly known as foil.
- **Size**  
The panel is rolled with an effective width of 1.11m (Hidden-Fix) and 1.16m (Z-Lock). For 2" thicknesses the panel is supplied in pieces of 4.00 m. For thicknesses of 3", the maximum length of the panel is 6.00 m; 4" thicknesses and up, are manufactured up to 12 m long.

### Joints

Insulfoil Wall has two types of joints: Hidden-Fix and Z-Lock; these configurations provide greater strength and increased weather resistance in the system.



## Load Bearing Capacity, Thermal Resistance, and Weight

Insulfoil Wall, maximum load, $F_y = 2600 \text{ kg/cm}^2$ (37 ksi), $\delta_{max} = L/180$																			Thermal Properties and Weight of Insulfoil Wall													
Simple Support ( $\text{kg/m}^2$ )												Continuous support ( $\text{kg/m}^2$ )							Thickness in (cm)	R-Value ( $\text{ft}^2 \cdot \text{F} \cdot \text{h} / \text{Btu}$ )	Weight ( $\text{kg/m}^2$ )											
SPACE (m)	Thickness (in)											Thickness (in)																				
	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
1.0	86	129	172	215	258	301	344	387	430	473	516	153	230	306	382	459	535	611	688	764	840	917	2" (5.08)	7.69	4.93							
1.2	60	90	120	149	179	209	239	269	298	328	358	106	160	213	266	318	371	424	477	530	583	636	3" (7.62)	11.54	5.34							
1.5	38	57	77	95	115	134	153	172	191	210	229	68	102	136	170	204	238	272	306	340	373	407	4" (10.16)	15.38	5.75							
1.8			53	66	79	93	106	119	133	146	159		71	94	118	142	165	189	212	236	259	283	5" (12.70)	19.23	6.15							
2.0			43	53	64	75	86	97	107	118	129		57	77	96	115	134	153	172	191	210	229	6" (15.24)	23.08	6.56							
																							7" (17.78)	26.92	6.96							
																							8" (20.32)	30.77	7.37							
																							9" (22.86)	34.62	7.78							
																							10" (25.40)	38.46	8.18							
																							11" (27.94)	42.31	8.59							
																							12" (30.48)	46.15	9.00							

\* Analysis based on the criteria of permissible stresses according to "Design of Foam-Filled Structures" by John A. Hartsock

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