

## Insulpanel Wall Product Description

Insulpanel Wall: a panel designed to be installed vertically or horizontally on facades and exterior walls; it can be used inside or even as a suspended ceiling.

## Applications

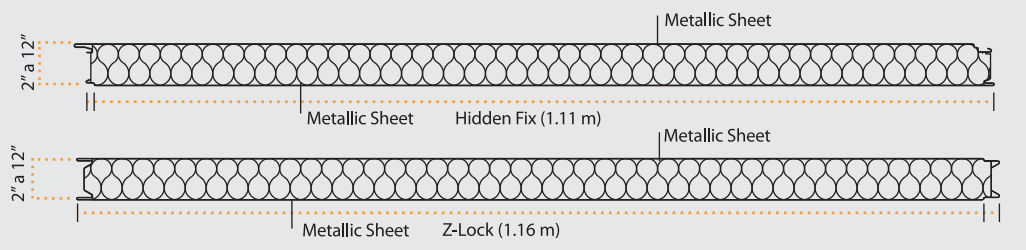
Insulpanel Wall is ideal for wall or suspended ceiling installations. Main applications include: warehouse construction, industrial warehouses, offices, dormitories, workshops, laboratories, houses, cleanrooms, slaughterhouses, freezing chambers, conservation rooms, etc.

## Advantages

- Versatile: can be combined with different construction systems
- Structural resistance
- Quick and easy installation
- Vertical or horizontal placement

### Joints

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



## 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 and interior faces**  
Galvanized sheet steel G-60, 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).
- **Sizes**  
The panel is rolled with an effective width of 1.11m (Hidden-Fix) and 1.16m (Z-Lock). Maximum length of the panel is as follows: for 2" thicknesses, 7.00 m; for 3" thickness, 10.00 m; for 4" to 12" panels, up to 12.00 m.

## Load Bearing Capacity, Thermal Resistance, and Weight

Insulpanel Wall, maximum load, $F_y = 2600 \text{ kg/cm}^2$ (37 ksi), $\delta_{max} = L/180$																									
Simple Support (lb/ft <sup>2</sup> )							Continuous Support (lb/ft <sup>2</sup> )																		
		Thickness (in)							Thickness (in)																
SPACE (ft)	2"	2.5"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	SPACE (ft)	2"	2.5"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
3.00	90	-	-	-	-	-	-	-	-	-	-	-	3.00	91	-	-	-	-	-	-	-	-	-	-	-
4.00	71	91	-	-	-	-	-	-	-	-	-	-	4.00	73	92	-	-	-	-	-	-	-	-	-	-
5.00	54	70	86	-	-	-	-	-	-	-	-	-	5.00	57	73	88	-	-	-	-	-	-	-	-	-
6.00	36	46	55	73	91	-	-	-	-	-	-	-	6.00	39	51	62	86	-	-	-	-	-	-	-	-
8.00	23	29	35	46	58	70	81	93	104	-	-	-	8.00	29	38	47	60	73	85	97	-	-	-	-	-
9.00	16	20	24	32	40	48	56	64	72	80	88	97	9.00	22	29	34	44	53	62	71	79	88	96	105	-
11.00	12	15	18	24	30	36	41	47	53	59	65	71	11.00	15	20	25	34	41	48	54	61	67	74	80	86
13.00	9	11	14	18	23	27	32	36	41	45	50	54	13.00	11	14	18	26	32	38	43	48	54	59	64	69
14.00	7	9	11	14	18	21	25	29	32	36	39	43	14.00	8	11	13	19	25	31	35	40	44	48	52	56

Thermal Properties of Insulpanel Wall and inherent weight		
Thickness in (cm)	R-Value (ft <sup>2</sup> °F h/Btu)	Weight (kg/m <sup>2</sup> )
2" (5.08)	7.69	9.35
3" (7.62)	11.54	9.76
4" (10.16)	15.38	10.17
5" (12.70)	19.23	10.57
6" (15.24)	23.08	10.98
7" (17.78)	26.92	11.38
8" (20.32)	30.77	11.79
9" (22.86)	34.62	12.20
10" (25.40)	38.46	12.60
11" (27.94)	42.31	13.01
12" (30.48)	46.15	13.42

\* Analysis based on the criteria of permissible stresses according to "Design of Foam-Filled Structures" by John A. Hartsock  
 \* (-) Load capacities greater than 500 kg/m<sup>2</sup>.

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