

Insulpanel Roof

Product Description

Insulpanel Roof is the best system for all types of roof construction. Its weather-proofing properties are enhanced due to its excellent panel-joint features.

Application

Insulpanel Roof is used as a cover in construction for commercial, industrial, agricultural, fishing, and residential buildings. In certain cases, it can be installed as a wall.

Advantages

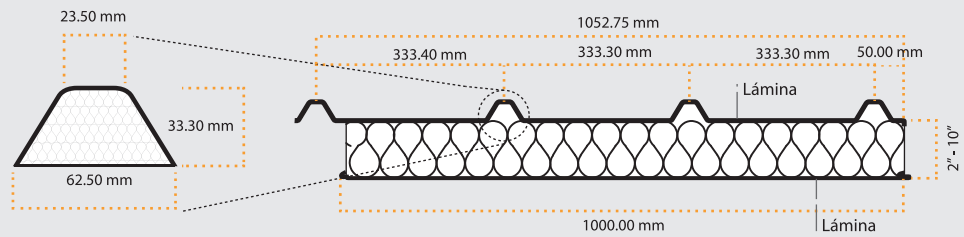
- Weatherproof
- Lightweight element with excellent structural strength
- Reduced construction time (efficiency)
- Mechanical stability and weather resistance

Features

- **Core**
16 kg/m³ (1lb/ft³) self-extinguishing expanded polystyrene (EPS), available in thicknesses ranging from 2" to 10"
- **Exterior and interior sides**
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**
It is rolled with an effective width equal to 1.00 m (approx 40"); it has 3 crests on the outside and an additional one (non-insulated) to make overlap between panels. The Panel can be manufactured up to 12 m long.

Joints

Insulpanel Roof has a fourth crest without insulation used to make overlap between panels.



Load Bearing Capacity, Thermal Resistance, and Weight

Insulpanel Roof, maximum load, F_y = 2600 kg/cm² (37 ksi), δ_{max} = L/240

Simple Support (kg/m ²)											Continuous Support (kg/m ²)										
SPACE (m)	Thickness (in)										SPACE (m)	Thickness (in)									
	2"	2.5"	3"	4"	5"	6"	7"	8"	9"	10"		2"	2.5"	3"	4"	5"	6"	7"	8"	9"	10"
1.22	429	487	-	-	-	-	-	-	-	-	1.22	718	-	-	-	-	-	-	-	-	-
1.50	290	337	384	478	-	-	-	-	-	-	1.50	459	511	-	-	-	-	-	-	-	-
2.00	171	205	240	310	380	451	-	-	-	-	2.00	257	295	333	409	485	-	-	-	-	-
2.50	112	139	166	220	276	332	388	445	501	-	2.50	167	197	226	286	345	405	464	-	-	-
3.00	78	99	120	164	210	255	302	348	395	442	3.00	118	142	166	214	262	310	359	408	455	504
3.50	57	73	90	126	164	202	241	280	319	359	3.50	88	108	127	167	207	247	288	330	370	410
4.00	42	55	69	99	130	163	196	229	263	297	4.00	68	84	100	134	168	203	237	273	308	343
4.50	32	43	54	79	105	133	161	190	219	249	4.50	53	67	81	110	140	169	200	230	261	291

Thermal Properties and Weight of Insulpanel Roof

Thickness (cm)	R-Value (ft ² ·F·h/Btu)	Weight (kg/m ²)
2" (5.08)	7.69	10.05
3" (7.62)	11.54	10.46
4" (10.16)	15.38	10.87
5" (12.70)	19.23	11.27
6" (15.24)	23.08	11.68
7" (17.78)	26.92	12.08
8" (20.32)	30.77	12.49
9" (22.86)	34.62	12.90
10" (25.40)	38.46	13.30

* 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/m².

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