

Insulfoil Roof

Product Description

Insulfoil Roof: a panel designed to be installed as a roof in any type of construction. Its components include a metal sheet on the outer side, expanded polystyrene as an insulating element in the core, and foil on the inside.

Applications

Insulfoil Roof is used as a cover in the construction of commercial, industrial, and residential buildings. It may also be installed vertically on walls or on facades of the buildings.

Advantages

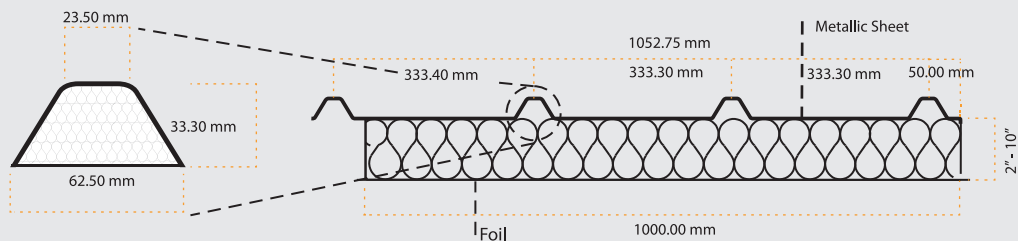
- Waterproof
- Economical
- Lightweight and easy to install
- Provides uniform R-value to the building
- Aesthetic

Characteristics

- **Core**
16 kg / m³ (1lb / ft³) self-extinguishing expanded polystyrene (EPS), available in thicknesses from 2" to 10".
- **Exterior Face**
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. It features 3 crest with an additional one to join panels.
- **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 equal to 1.00 m (approximately 40"). Panels can be manufactured up to 12.00 m long.

Joints

Insulfoil Roof features an uninsulated fourth crest used for joining panels.



Load Bearing Capacity, Thermal Resistance, and Weight

Insulfoil Roof, maximum load, $F_y = 2600 \text{ kg/cm}^2$ (37 ksi), $\delta_{max} = L/240$

		Simple Support (kg/m ²)										Continuous Support (kg/m ²)									
		Thickness (in)										Thickness (in)									
SPACE (m)		2"	3"	4"	5"	6"	7"	8"	9"	10"	SPACE (m)	2"	3"	4"	5"	6"	7"	8"	9"	10"	
1.0		147	212	257	305	355	406	458	511	563	1.2	139	206	274	342	411	480	549	619	688	
1.2		117	147	178	212	247	282	318	355	391	1.5	107	159	203	241	281	321	362	403	445	
1.5		78	94	114	136	158	181	204	227	250	2.0	73	94	114	136	158	181	204	227	250	
1.9				71	85	98	113	127	141	156	2.5		60	73	87	101	116	130	145	160	
2.0				64	76	89	102	115	128	141	3.0				60	70	80	91	101	111	

Thermal Properties and Weight of Insulfoil Roof		
Thickness (in)	R-Value (ft ² ·F·h/Btu)	Weight (kg/m ²)
2" (5.08)	7.69	5.63
3" (7.62)	11.54	6.04
4" (10.16)	15.38	6.45
5" (12.70)	19.23	6.85
6" (15.24)	23.08	7.26
7" (17.78)	26.92	7.66
8" (20.32)	30.77	8.07
9" (22.86)	34.62	8.47
10" (25.40)	38.46	8.88

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

FANOSA® provides the following information to support the application of the products: FANOSA® cannot be held responsible for the misuse of the information provided herein. Likewise, FANOSA® recommends obtaining advice from a specialist that can verify the applicability of such information, doing so at one's own risk.

Under no circumstance will FANOSA® be held responsible for the installation and/or accessories used for the installation of the product(s) sold. FANOSA® expressly waives any warranty, expresses or implied. By making this information available, FANOSA® is not providing professional services and assumes no duties or responsibilities to any person who makes use of such information. Likewise, FANOSA® will not be responsible for any lawsuit, complaint, injury, loss, expense, cost, legal fees or liability of any kind, which in any way arises or is connected to the use of the information contained in this publication, whether or not such lawsuit, complaint, injury, loss, expense, cost, legal fees or liability result, directly or indirectly, from any action or omission by FANOSA®. Any party that uses the information contained in this manual assumes all responsibility for the use of such information.

Since there are risks connected to the handling, installation, or use of steel and its accessories, we recommend that the parties involved in such handling, installation, or use review all applicable safety guidelines of the manufacturer's publications, rules and regulations from the Ministry of Labor and Social Welfare, and other government agencies that have jurisdiction over such management, installation or use and other relevant publications of construction practices.

FANOSA® reserves the right to modify, without prior notice, the information expressed herein. (March 2019 Edition).

CDMX 01 (55) 58 73 90 90	Villahermosa, Tab. (993) 353 06 49	Cancún, Q. Roo. (998) 886 30 13	Mérida, Yuc. (988) 933 28 69	Veracruz, Ver. (229) 935 05 35	Sacramento, CA (619) 677 57 06	Phoenix, AZ (619) 677 57 06	Santa Fe, NM (619) 677 57 06	Austin, TX (619) 677 57 06	
Hermosillo, Son. (662) 259 07 00	Guadalajara, Jal. (33) 3629 4861	Nogales, Son. (631) 314 45 55	Cd. Juárez, Chih. (656) 682 04 00	Culliacán, Sin. (667) 761 30 90	Mexicali, B.C. (686) 904 51 60	Tijuana, B.C. (664) 623 42 49	La Paz, B.C.S. (612) 114 64 68	Monterrey, N.L. (81) 81 54 5330	Querétaro, Qro. (442) 101 96 00