

## Description

**FANOSA® Insulpanel®** is a modular panel designed for the following installations:

- Roof
- Exterior wall
- Interior wall
- Suspended Ceiling
- Facades

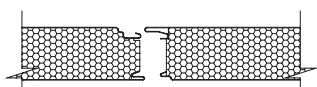
The system is complemented by a variety of sheet, fixing and sealing fixtures, adding aesthetic value to the final product. Furthermore, it is easily combined with other construction materials, offering greater flexibility from design through installation.

## Characteristics

It consists of a core of self-extinguished expanded polystyrene (EPS), cover on both sides with galvanized steel sheet G-60 (ASTM-A 653) Gauge 26. Pre-painted coating. It is manufactured through a continuous process so the required length can be supplied in one piece, transportation and handling during installation being the only constraints.

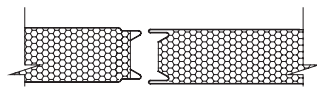
## Joints

### Wall



#### Hidden Fix

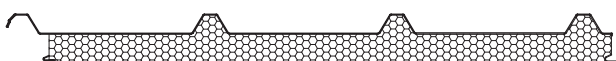
Effective Width: 1.11 m



#### Z - Lock

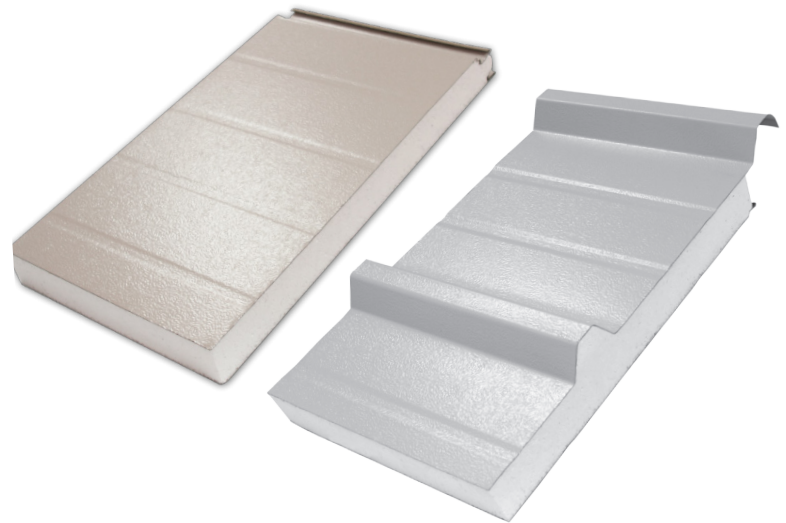
Effective Width: 1.16 m

### Roof



#### Three Deck (with ribs)

Effective Width: 1.00 m



## Advantages

- Adapts to your needs, as it is manufactured in a continuous process. Offers a choice of its length, finish and color.
- Fits project requirements due to its flexibility in combining with other construction materials.
- Potential to be recovered in case of relocation and/or expansion.
- Budget-friendly due to its versatility, manufacturing process, ease of installation, and time saving. Truly an economical system.
- Properties of thermal insulation, waterproofing and weather proofing allow it to perform well under a variety of environmental conditions.
- Suitable for a variety of projects. Lightweight yet strong. Stable and reliable. Ideal for roofs, walls or suspended ceilings.

March 2019

## Properties of the Components

### Core

Thickness	2" a 12"
Density	16 kg/m <sup>3</sup> (1 lb/ft <sup>3</sup> )
Compressive strength, resistance to creep or 10% deformation, whichever comes first	0.70 kg/cm <sup>2</sup> (10 psi)
Bending strength	1.76 kg/cm <sup>2</sup> (25 psi)
Water absorption by total immersion, max.,	0.004 (vol. %)
Maximum working temperature	76°C
Flame spread index	25 or less
Smoke index	Less than 450
Capillarity	None
With the passage of time, does it keep its:	Thermal properties? ..... YES
	Dimensional properties?.....YES
	Fire resistance? .....YES
	Moisture resistance?.....YES
Fungus attack	None
Weathering resistance	Polystyrene is always protected against UV rays

Thickness (in)	U-Value (Btu/h·ft <sup>2</sup> ·°F)	R-Value (ft <sup>2</sup> ·°F·h/Btu)	Insulpanel Wall Weight (kg/m <sup>2</sup> )	Insulpanel Roof Weight (kg/m <sup>2</sup> )
2"	0.130	7.69	9.35	10.05
3"	0.087	11.54	9.76	10.46
4"	0.065	15.38	10.17	10.87
5"	0.052	19.23	10.57	11.27
6"	0.043	23.08	10.98	11.68
7"	0.037	26.92	11.38	12.08
8"	0.033	30.77	11.79	12.49
9"	0.029	34.62	12.20	12.90
10"	0.026	38.46	12.60	13.30
11"	0.024	42.31	13.01	-
12"	0.022	46.15	13.42	-

Notes: Considered here was a value of K = 0.26 Btu·in/(h·ft<sup>2</sup>·°F) for the calculation of thermal resistance values. Reference: ASHRAE Fundamentals 2006

FANOSA® provides the following technical information as a reference only for the application of the products, so FANOSA® cannot be held responsible for any misuse of the product. It is also recommended to seek the advice of a specialist at the client's own risk and expense in order to verify the applicability of this information. Under no circumstances will FANOSA be held responsible for installation or accessories used in the installation of its products.

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Because there are risks associated with the handling, installation, and use of steel sheets and its accompanying fixtures or accessories, we recommend that the parties involved in the handling, installation and use review all applicable Material Safety Data Sheets (MSDS), rules and regulations of the Ministry of Labor and Social Security and other government agencies that have jurisdiction over such handling, installation or use and any other relevant publications regarding construction practices. Issued on March, 2019; FANOSA® reserves the right to modify this information without notice.

### Coverings

Gauge	26
Steel	Commercial quality type "B", Fy = 2600 kg/cm <sup>2</sup> (37 ksi)
Finish	Smooth or embossed (mild roughness)
Covering	Aluminum zinc alloy Galvalume AZ 120 (ASTM A 792), similar to G-90 Galvanized.
Paint	Pinto pre-painted with standard Polyester resin
Colors	White and sand

Coating Composition	Description	Values (English Units)	Values (Metric Units)
White film	Metalized polypropylene film	0.0015 in	38.1 micra
Adhesive	Fire-resistant		
Reinforcements	Tri-directional Fiberglass/Polyester	5/in (MD)	20/100 mm (MD)
		5/in (MD)	20/100 mm (MD)
Kraft	Natural	30 lb / 3000 ft <sup>2</sup>	49 g / m <sup>2</sup>