



ISOFRIG thermal insulation wall panel

Product Overview

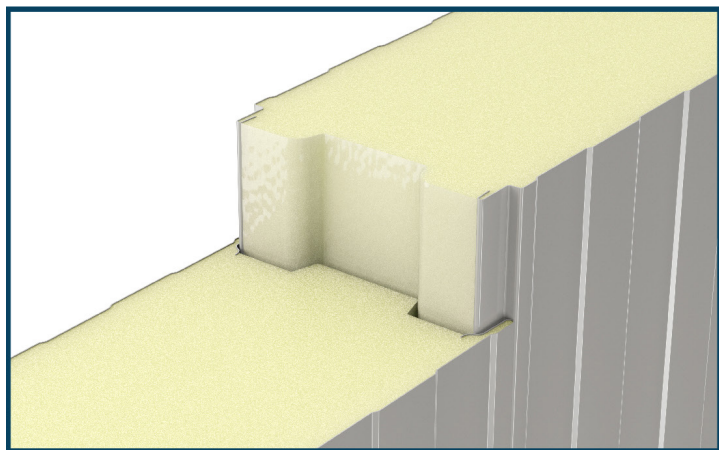
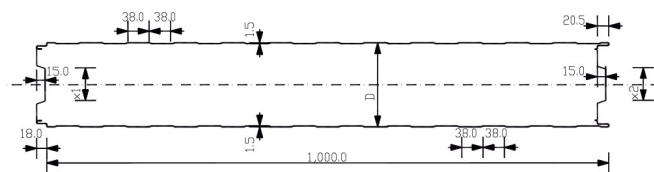
ISOFRIG thermal insulating wall panels with frigo fixings and PUR foam are the ideal solution for the construction of cold rooms/storages and food processing or storage spaces.

The tightness of the frigo-type joint and the density of the insulating layer up to 40 kg/m³ ensure a low ratio of thermal conductivity and an extremely high degree of

tightness. This type of panels can be installed vertically or horizontally.

Application

ISOFRIG thermal insulation panels can be used for a wide range of constructions such as: industrial buildings for production and storage, rooms that require storage and handling at negative temperatures. Each application should be verified against individual project requirements.



Technical Parameters

Module width [mm]	Core Thickness	Mass [kg/m ²]	Thermal Transmittance (U-value) acc. EN 14509:2013 [W/m ² ·K]
1,000	150	13.11	0.15
	200	14.96	0.11

The technical data is valid for a face thickness of Ext. / Int. 0.45 / 0.40 mm.

Fire Performance

ISOFRIG Wall Panel has been tested and approved to comply with SR EN 14509:2013.

Module width [mm]	Core Thickness	Reaction to Fire	Fire Resistance - External Wall - Horizontal	Fire Resistance - External Wall - Vertical	Fire Resistance - Internal Wall - Horizontal	Fire Resistance - Internal Wall - Vertical
1,000	150	E	NPD	NPD	NPD	NPD
	200	E	NPD	NPD	NPD	NPD

Dimensions

Length

Standard lengths

2000-13500 mm

Additional costs and transport restrictions may apply for non-standard lengths.

Width

The useful width is 1000 mm.

Product Tolerances

Product tolerances are measured according to the standard SR EN 14509:2013

Length tolerance	L≤3m, -	5 mm
Length tolerance	L≤3m, +	5 mm
Length tolerance	L>3m, -	10 mm
Length tolerance	L>3m, +	10 mm
Cover width tolerance	-	2 mm
Cover width tolerance	+	2 mm
Thickness tolerance	-	2 mm
Thickness tolerance	+	2 mm
Thickness tolerance	D>100mm, -	2 %
Thickness tolerance	D>100mm, +	2 %

Mechanical Resistance

For load / span tables, please contact TeraSteel Technical Department.

Materials

Insulation Core

Polyurethane (PUR) insulation core with a Thermal Conductivity (λ) declared of 0.029 W/m·K and initial 0.022 W/m·K according to SR EN 14509:2013 and SR EN 13165:2009.

External facing

The thicknesses of the coil coated steel sheet are: 0.35/0.40/0.50/0.60 mm.

Available coatings: polyester, PVC, PVDF.

Internal facing

The thicknesses of the coil coated steel sheet are: 0.35/0.40/0.45/0.50/0.55/0.60 mm.

Available coatings: polyester, PVC, PVDF.

Seals

N/A

Profiles

The available profiles can be found in the corresponding profile table.

Colours

STANDARD/Special colors are available by request.

Environmental Performance

TeraSteel facilities from Romania generate renewable energy through photovoltaic power plants installed on the production units. The panels and materials used in the installation are not hazardous to the environment. The waste resulting from the installation and when the buildings are no longer in use is collected by type of material and handed over to specialized companies for collection.

Production Standard

TeraSteel thermal insulation panels comply with the European standard SR EN 14509:2013 - Self-supporting, insulating sandwich panels with metal sheet on both sides.

Quality

TeraSteel thermal insulation panels are manufactured from high-quality materials using automated production equipment. Strict adherence to quality management system SR EN ISO 9001:2015 and compliance management system SR ISO 37301:2021 ensures long-term reliability and durability.

The panels also comply with the environmental management system certifications SR EN ISO 14001:2015 and the occupational health and safety management system SR EN ISO 45001:2023. The ISOFRIG wall panel is CE marked according to SR EN 14509:2013.

Delivery

The panels can be transported by vehicles with side loading or top loading. Special conditions of loading and transport can be accepted only upon written request from the buyer (assuming full responsibility). The carrier is solely responsible for the integrity of the cargo throughout transport. When receiving the goods the beneficiary shall verify and record on the shipping documents any lack of conformity

Warranty

TeraSteel warranties are assessed individually for each project, depending in particular on the aggressiveness of the environment and the type of surface treatment chosen.

Packing

The panels are delivered in packages, wrapped with protective film, on polystyrene spacers. The number of panels in the package varies depending on the dimension (thickness, length) and customer requirements, within the limits of the manufacturing technology. The wall panels are disposed in package with their outer faces (the blue protective film indicates the outer face when mounting the panels) on top.

Site Storage & Installation

For site storage and installation instructions please refer to the assembly instructions provided by TeraSteel.

Profiles

Profile	External	Internal
L - Lis		
P - Plisse		
S - Standard		

Contact Details

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For the latest product details, please always refer to the latest version of this data sheet by scanning the QR code or by clicking on this link: terasteel.co.uk/data-sheets

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