ISOAC5 MW LS thermal insulation roof panel



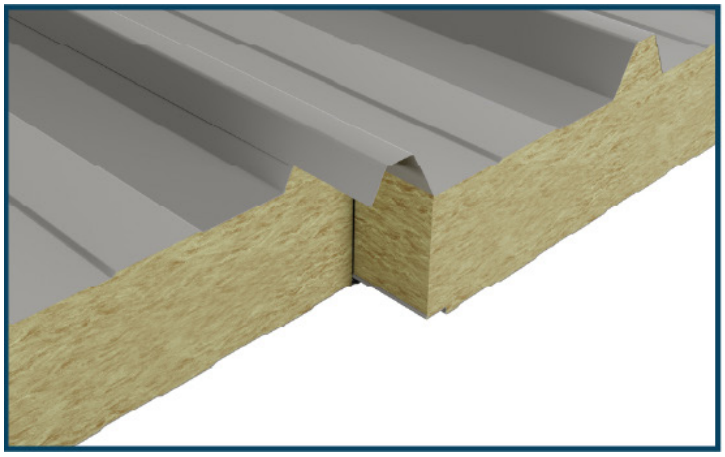
Product Data Sheet

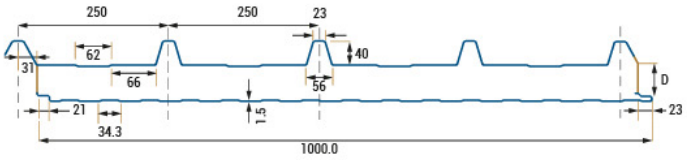
Product Overview

ISOAC5 MW LS thermal insulation roof panels with mineral wool and 5 trapezoidal ribs are a modern and efficient cladding solution, providing any construction with improved thermal insulation, tightness and durability. Also, the insulating mineral wool core has a high fire resistance. In the event of a fire, mineral wool does not burn and does not emit toxic gases, thus ensuring safety and comfort in the subsequent exploitation of the construction. This type of panels can be used for all types of construction where the roof slope is greater than 7%.

Application

ISOAC5 MW LS thermal insulation panels can be used for a wide range of constructions that require a high degree of fire resistance such as: industrial buildings for production and storage, logistics centers, commercial centers, agro-zootechnical buildings and many more. Each application should be verified against individual project requirements.





Technical Parameters

Module width [mm]	Core Thickness	Mass [kg/m²]	Thermal Transmittance (U-value) acc. EN 14509:2013 [W/m²·K]
1,000	60	16.76	0.60
	80	18.76	0.46
	100	20.76	0.38
	120	22.76	0.32
	150	25.76	0.26

The technical data is valid for a face thickness of ext/int 0.60/0.50 mm.

Fire Performance

ISOAC5 MW LS Roof Panel has been tested and approved to comply with EN 14509:2013.

Module width [mm]	Core Thickness	Reaction to Fire	Fire Resistance - Roof
1,000	60	A2-s1, d0	RE 60[1] / REI 30[1] - 4m
	80	A2-s1, d0	RE 60[1] / REI 45[1] - 4m
	100	A2-s1, d0	RE 120[1] / REI 90[1] - 4m
	120	A2-s1, d0	RE 120[1] / REI 90[1] - 4m
	150	A2-s1, d0	REI 120[1] - 4m

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 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
Mineral wool (MW) insulation core with a Thermal Conductivity (λ) of 0,041 W/mK, according to EN 14509:2013 and EN 13162+A1:2015.

External facing
The thicknesses of the coil coated steel sheet are: 0.50/0.60 mm.
Available coatings: polyester, PVC, PVDF.

Internal facing
The thicknesses of the coil coated steel sheet are: 0.50/0.60 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 facility from Serbia generate renewable energy through photovoltaic power plants installed on the production unit. 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 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. In the production of sandwich panels, we apply the highest standards of quality, safety and environmental protection. Our business is certified and compliant with international standards: ISO 9001:2015 - Quality Management System, ISO 14001:2015 - Environmental Management System, ISO 45001:2018 - Occupational Health and Safety Management System and ISO 37301:2021 - Compliance Management System. The ISOAC5 MW LS roof panel is CE marked in accordance with 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, packed with stretch foil 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.

Site Storage & Installation

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

Profiles

Profile	External	Internal
5rib		
L - Lis		
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.rs/tehnicki-list-english

The information provided in this datasheet is accurate as of its date of publication and represents our commitment to quality and transparency. However, TeraSteel reserve the right to modify product specifications without prior notice to reflect advancements or improvements. For applications not explicitly covered within this datasheet, consultation with our Technical department is strongly advised to ensure the product meets your specific requirements. Customers are responsible for verifying the product's suitability for their particular needs and for ensuring compliance with all applicable laws and regulations. We reserve the right to update this datasheet, and any other informational materials, at our discretion and without notice. For the latest information, please visit: www.terasteel.rs

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