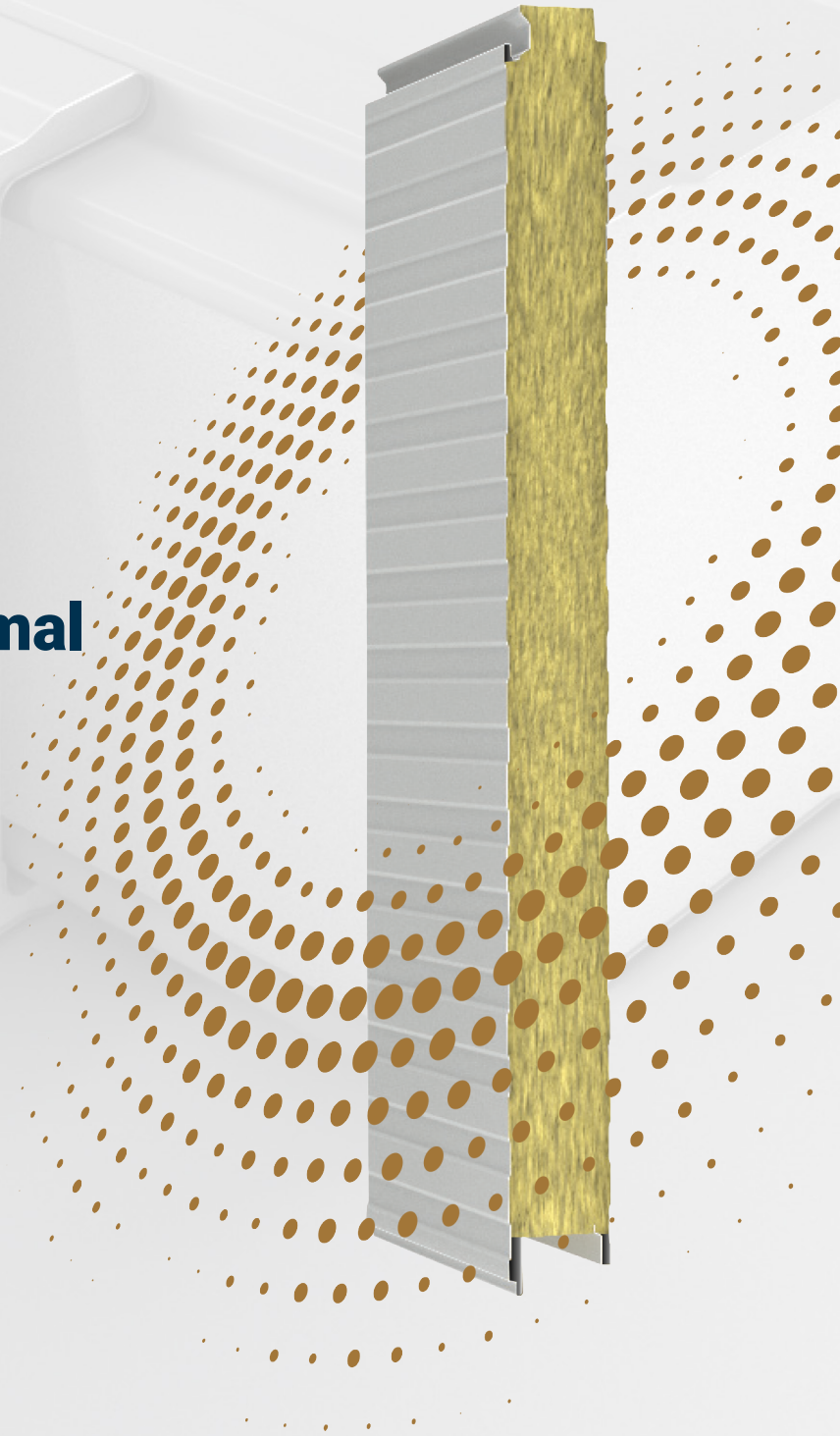
SERBIA

# ISOPERa MW LS thermal insulation wall panel



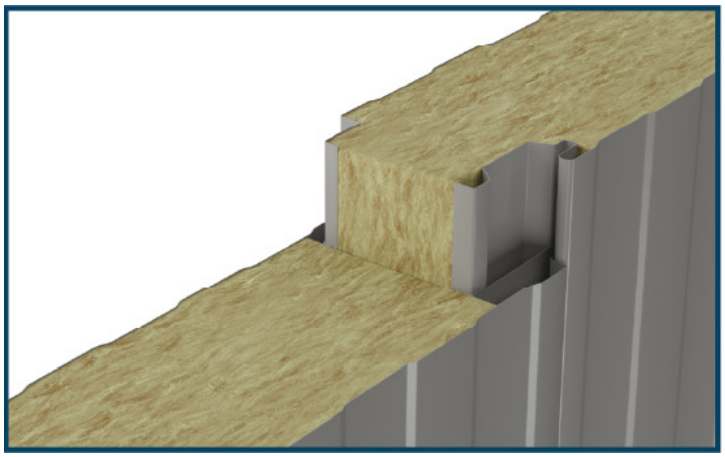
Product Data Sheet

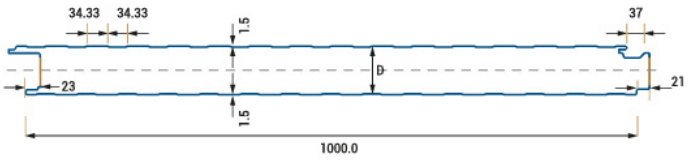
## Product Overview

ISOPERa MW LS thermal insulating wall panels with hidden fixing and mineral wool foam, ensure durability and energy efficiency, tightness, fire resistance, easy installation and timely implementation of any project with special architectural and aesthetic requirements. 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.
For this type of panels, we only recommend vertical installation. In case of any adverse effects due to horizontal installation, the buyer assumes full responsibility.

## Application

ISOPERa 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 | 16.33 | 0.60 |
| | 80 | 18.33 | 0.46 |
| | 100 | 20.33 | 0.38 |
| | 120 | 22.33 | 0.32 |
| | 150 | 25.33 | 0.26 |

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

## Fire Performance

ISOPERa MW LS Wall Panel has been tested and approved to comply with 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 | 60 | A2-s1, d0 | NPD | NPD | NPD | NPD |
| | 80 | A2-s1, d0 | NPD | E 30 (o↔i)[1] / EI 30 (o↔i)[1] / EW 30 (o↔i)[1] - 6m<br>E 30 (o↔i)[1] / EI 30 (o↔i)[1] / EW 30 (o↔i)[1] - 7.5m<br>E 60 (o↔i)[1] / EI 30 (o↔i)[1] / EW 30 (o↔i)[1] - 4m | NPD | E 30[1] / EI 30[1] / EW 30[1] - 6m<br>E 30[1] / EI 30[1] / EW 30[1] - 7.5m<br>E 60[1] / EI 45[1] / EW 30[1] - 4m |
| | 100 | A2-s1, d0 | E 30 (i→o)[1] / EI 30 (i→o)[1] / EW 30 (i→o)[1] - 7.5m<br>E 60 (i→o)[1] / EI 60 (i→o)[1] / EW 60 (i→o)[1] - 4m | E 60 (i→o)[1] / EI 60 (i→o)[1] / EW 60 (i→o)[1] - 7.5m<br>E 90 (i→o)[1] / EI 90 (i→o)[1] / EW 90 (i→o)[1] - 4m<br>E 90 (i→o)[1] / EI 90 (i→o)[1] / EW 90 (i→o)[1] - 6m | E 30[1] / EI 45[1] / EW 30[1] - 7.5m<br>E 60[1] / EI 60[1] / EW 60[1] - 4m | E 60[1] / EI 60[1] / EW 60[1] - 7.5m<br>E 90[1] / EI 90[1] / EW 90[1] - 4m<br>E 90[1] / EI 90[1] / EW 90[1] - 6m |
| | 120 | A2-s1, d0 | E 30 (i→o)[1] / EI 30 (i→o)[1] / EW 30 (i→o)[1] - 7.5m<br>E 60 (i→o)[1] / EI 60 (i→o)[1] / EW 60 (i→o)[1] - 4m | E 60 (i→o)[1] / EI 60 (i→o)[1] / EW 60 (i→o)[1] - 7.5m<br>E 90 (i→o)[1] / EI 90 (i→o)[1] / EW 90 (i→o)[1] - 4m<br>E 90 (i→o)[1] / EI 90 (i→o)[1] / EW 90 (i→o)[1] - 6m | E 30[1] / EI 45[1] / EW 30[1] - 7.5m<br>E 60[1] / EI 60[1] / EW 60[1] - 4m | E 60[1] / EI 60[1] / EW 60[1] - 7.5m<br>E 90[1] / EI 90[1] / EW 90[1] - 4m<br>E 90[1] / EI 90[1] / EW 90[1] - 6m |
| | 150 | A2-s1, d0 | E 120 (i→o)[1] / EI 120 (i→o)[1] / EW 120 (i→o)[1] - 4m<br>E 90 (i→o)[1] / EI 90 (i→o)[1] / EW 90 (i→o)[1] - 7.5m | E 60 (i→o)[1] / EI 60 (i→o)[1] / EW 60 (i→o)[1] - 7.5m<br>E 90 (i→o)[1] / EI 90 (i→o)[1] / EW 90 (i→o)[1] - 4m<br>E 90 (i→o)[1] / EI 90 (i→o)[1] / EW 90 (i→o)[1] - 6m | E 120[1] / EI 120[1] / EW 120[1] - 4m<br>E 90[1] / EI 90[1] / EW 90[1] - 7.5m | E 60[1] / EI 60[1] / EW 60[1] - 7.5m<br>E 90[1] / EI 90[1] / EW 90[1] - 4m<br>E 90[1] / EI 90[1] / EW 90[1] - 6m |

## 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 ISOPERa MW LS wall 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. The wall panels are disposed of in a 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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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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