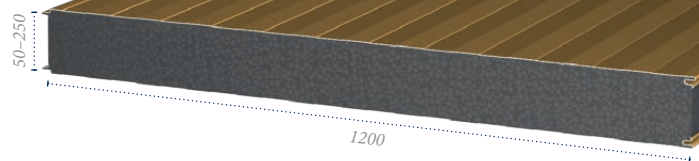


Lightly profiled sandwich panels with EPS core

TENAX W NEO S

for walls, ceilings and cold storage



PRODUCT DESCRIPTION

Sandwich panels TENAX are manufactured in a wide range of thickness, with different thermal insulation cores, panel joints and profiling of the steel facings, all of which have a significant influence on the performance characteristics and the appearance of the structure. Sandwich panels TENAX with thermally improved expanded polystyrene (NEO) core are particularly suitable for the lightweight structures with good fire safety and excellent thermal performance, where the most economic solution is required. Together with the sandwich panels TENAX the customer can also benefit from the panel design and calculation services, as well as instructions, detail drawings, accessories and materials necessary for panel handling and assembly.

APPLICATION

Lightly profiled sandwich panels TENAX W are designed for horizontal and vertical assembly, especially for:

- internal and external walls
- ceilings
- cold storage

The storage, handling and assembly of the sandwich panels must be carried out strictly in accordance with the manufacturer's instructions (see Technical Guidelines).

ADVANTAGES

- Very good thermal performance (for the structure with an equivalent thermal resistance, 30 % thicker panel with mineral wool or 20 % thicker panel with standard expanded polystyrene core is required).
- Very short delivery time, especially for the panels with polyester coating from the standard colour palette.
- Available with a cover width 1200 mm (the width with lowest transportation costs).
- Easy and fast assembly due to the small area weight.
- No water condensation in thermal insulation core (suitable for cold storage).

PANEL CONNECTION JOINT

Lightly profiled panels TENAX W EPS are manufactured with S ("standard") type side joints.

Panel connection joint types



S ("standard") type

For the panels with S type side joints, the profile of the lateral sides of the panels is designed to achieve a tight joint in the connections of the steel facings and thermal insulation after panel assembly (see figure). For the panels with S type side joints, the lateral sides of the thermal insulation core are flat.

The fixings of the panels with S type side joints are covered with special flashings.

TECHNICAL DATA

| Characteristic | Nominal value | | | | | | | | |
|---|--------------------------------------|------|------|------|------|------|------|------|------|
| Panel width / cover width, mm | 1212/1200 | | | | | | | | |
| Length, mm | from 2000 to 12000 (increment 10 mm) | | | | | | | | |
| Thickness, mm | from 50 to 250 (increment 5 mm) | | | | | | | | |
| | 50 | 80 | 100 | 120 | 150 | 175 | 200 | 250 | 300 |
| Design area weight, kg/m ² (for steel thickness 0,5 mm/0,5 mm) | 9,6 | 10,4 | 10,7 | 11,1 | 11,6 | 12,1 | 12,5 | 13,4 | 14,2 |
| Thermal transmittance (U-value), W/m ² ·K | 0,62 | 0,38 | 0,30 | 0,25 | 0,20 | 0,17 | 0,15 | 0,12 | 0,10 |

ATTESTATION OF CONFORMITY

Sandwich panels TENAX comply with the European harmonized standard EN 14509 "Self-supporting double skin metal faced insulating panels – Factory made products - Specifications" and are marked with CE mark.

PRODUCT DESIGNATION EXAMPLE

TENAX W200 NEO S

TENAX - product trademark

W - lightly profiled panel for vertical and horizontal structures, except roofs

200 - panel thickness, mm

NEO - core material of the sandwich panel (expanded polystyrene with increased thermal resistance)

S - type of the sandwich panel lateral joint

PACKAGING

Sandwich panels are supplied in the rectangular packages with height up to 1,2 meters, wrapped with polyethylene shrinkage film and reinforced with polypropylene tension straps. Other types of packaging are possible.

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PROFILE OF THE STEEL FACINGS ^{1), 2)}

| Panel facing | Profiling | | | | |
|--|-----------|----|----|-------|-------|
| | V0 | V1 | V5 | RIB11 | MICRO |
| Facing on the building's outer surface | ✓ | ✓ | ✓ | ✓ | ✓ |
| Facing on the building's inner surface | ✓ | ✓ | ✓ | | |

1) Dimensions and shape of the facing profiling are given below.

2) The given profiling relates to the panels cover width 1200.



COATING AND COLOUR OF THE STEEL FACINGS

Sandwich panels are manufactured with polyester (SP), polyurethane (PUR), polyvinylidene chloride (PVDC) and plastisol (PVC) coatings. The lead times for the sandwich panels with 25 micron SP coating belonging to standard colour palette are significantly shorter.

| RAL Standard colour palette | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|
| | | | | | | | |
| 9010 | 9007 | 9006 | 9002 | 8017 | 7040 | 7035 | 7024 |
| | | | | | | | |
| 6020 | 5012 | 5010 | 3009 | 1021 | 1015 | 1002 | |

Other colours are available on request.

LEGAL NOTES

The information given above and relating to the products manufactured by TENAPORS is based on the current knowledge and the experience of the manufacturer. This information remains valid only as long as the product is stored, handled and installed in accordance with manufacturer's recommendations.

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