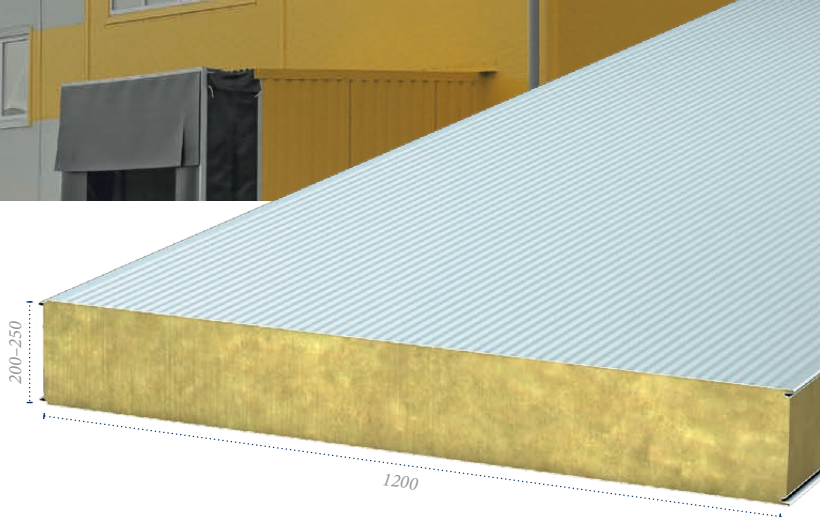


Lightly profiled sandwich panels with MW core

TENAX W MW S Security

for walls with increased burglary resistance



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 mineral wool (MW) core are particularly suitable for the structures with very high fire safety, as well as good thermal performance and sound insulation characteristics. 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:

- walls with increased burglary resistance

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

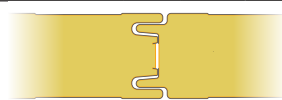
ADVANTAGES

- Good sound insulation characteristics.
- Excellent fire safety characteristics (fire resistance and reaction to fire).
- 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).

PANEL CONNECTION JOINT

Sandwich panels TENAX W S Security 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 200 to 250 (increment 5 mm)					
	200	210	220	230	240	250
Design area weight, kg/m ² (for steel thickness 0,6 mm/0,8 mm)	35,2	36,4	37,5	38,7	39,8	41,0
Thermal transmittance (U-value), W/m ² ·K	0,22	0,21	0,20	0,19	0,18	0,18
Reaction to fire (class, EN 13501-1)	A2-s1,d0					
Fire resistance (class, EN 13501-2)	EI120					

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. Sandwich panels TENAX W MW Security are intended for walls with improved burglary resistance. They fulfil the requirements for safety class 2 in accordance with Swedish national standard SSF 1047.

PRODUCT DESIGNATION EXAMPLE

TENAX W200 MW S Security

TENAX - product trademark

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

200 - panel thickness, mm

MW - core material of the sandwich panel (mineral wool)

S - type of the sandwich panel lateral joint

Security - sandwich panels with special characteristics (improved burglary resistance)

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.

TENAPORS reserves the rights to change the properties of its products. In all cases, the most recent version of the description applies. To get additional information on products manufactured by TENAPORS, please contact TENAPORS sales representative.