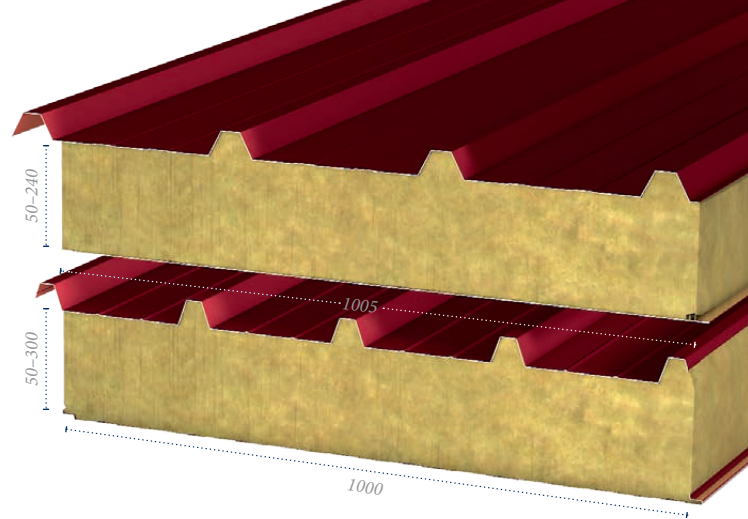




Profiled panels with MW core

TENAX TR MW S

for roofs



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

Profiled sandwich panels TENAX TR are particularly designed for multi-span roof structures, with a minimum slope of 5°.

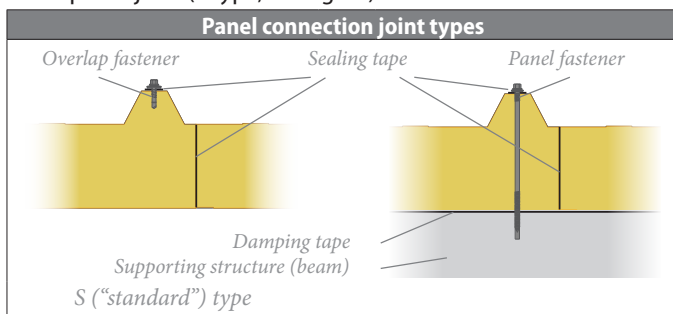
The storage, handling and assembly of the sandwich panels must be carried out strictly in accordance with the manufacturer's instructions (see Technical Guidelines).

ADVANTAGES

- High performance for the reaction to fire.
- Very short delivery time, especially for the panels with polyester coating from the standard colour palette.
- Possibility to install the PVC frame windows in the roof retaining the continuous profiling of the roof covering.
- Available with thickness 300 mm suitable for the passive house concept.

PANEL CONNECTION JOINT

Profiled sandwich panels TENAX TR are manufactured with overlap side joint (S type, see figure).



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.

Sandwich panels TENAX are available with gaskets integrated in the steel joints, which significantly improves the air, water and water vapour tightness of the structure.

TECHNICAL DATA

Characteristic	Nominal value								
Panel width / cover width, mm									
TENAX TR MW S10	1105/1005								
TENAX TR MW S12	1065/1000								
Length, mm	from 2000 to 13500 (increment 10 mm)								
Height of profile, mm	40								
Pitch of profile, mm									
TENAX TR MW S10	330								
TENAX TR MW S12	250								
Thickness, mm									
TENAX TR MW S10	from 50 to 240 (increment 5 mm)								
TENAX TR MW S12	50	80	100	120	150	175	200	240	300
Design area weight, kg/m ² (for steel thickness 0,5 mm/0,5 mm)	15,9	19,1	21,2	23,3	26,4	29,1	31,7	35,9	42,2
Thermal transmittance (U-value), W/m ² ·K	0,75	0,49	0,40	0,33	0,27	0,23	0,20	0,17	0,14

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 TR100 MW S12

TENAX - product trademark

TR - profiled panel, mainly for roofs

100 - panel thickness, mm

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

S12 - 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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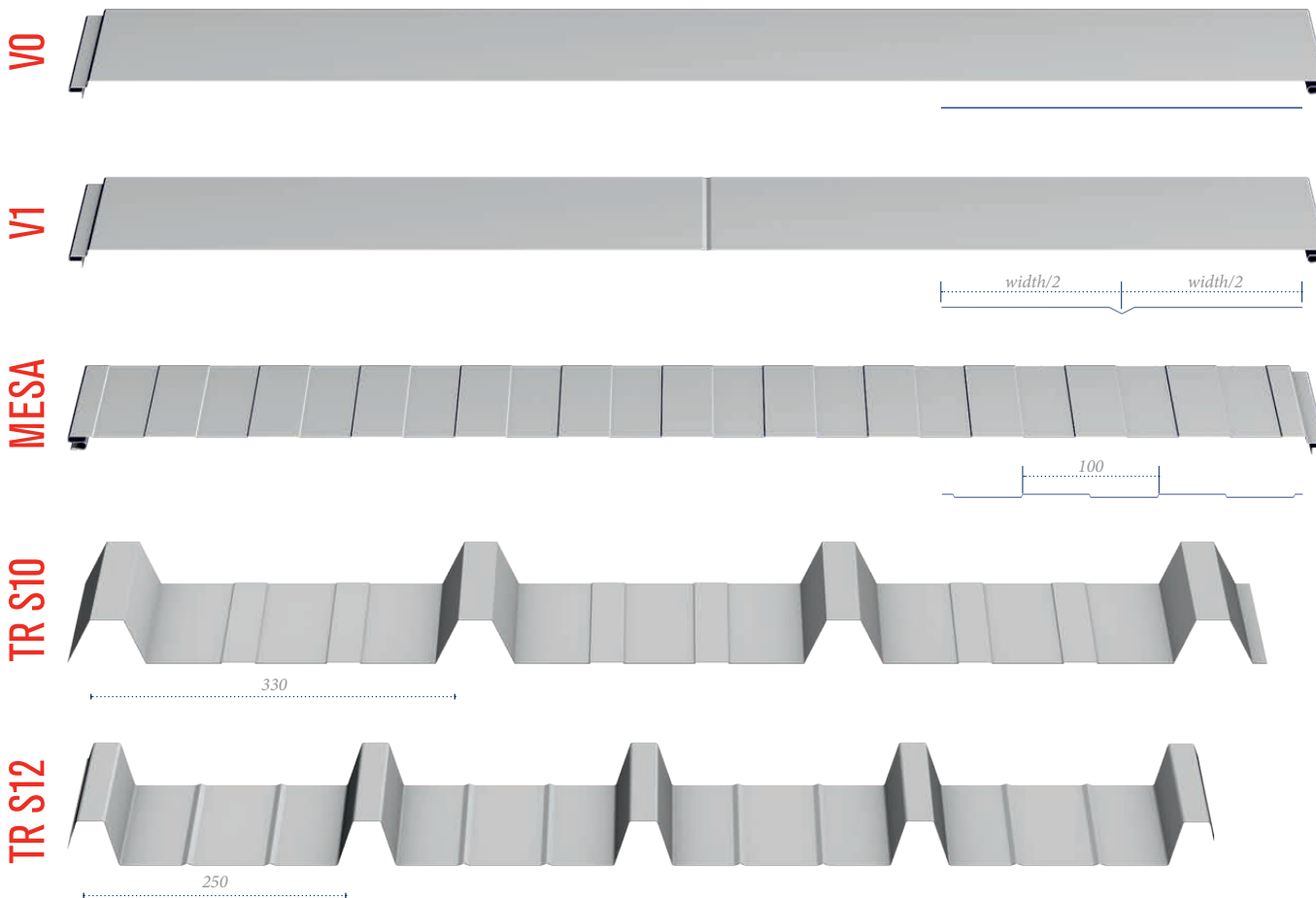
PROFILE OF THE STEEL FACINGS ^{1), 2)}

Panel facing	Profiling			
	V0	V1	MESA ³⁾	TR40
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 1000.

3) Profiling MESA is available only for the sandwich panels with side joints S12.



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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