DECLARATION OF PERFORMANCE
No 2S-T5N0-003
According to regulation No 305/2011

Unique identification code of the product-type:	**Self - supporting double skin metal faced insulating panels (sandwich panels) TENAX with MW core**
Product name:	**TENAX TR50 MW S12** **TENAX TR80 MW S12** **TENAX TR100 MW S12** **TENAX TR120 MW S12** **TENAX TR150 MW S12** **TENAX TR175 MW S12** **TENAX TR200 MW S12** **TENAX TR240 MW S12**
Intended use:	**for roofs and roof claddings**
Manufacturer:	**TENAX PANEL, SIA** Spodrības 1, Dobele¸ Latvia, LV- 3701
System/s of AVCP:	Scheme 1 (Reaction to fire) Scheme 3 (Fire resistance) Scheme 4
Harmonised standard:	EN 14509:2013
Notified Body:	No 1325 - AS Inspecta Latvia, Skanstes Str. 54A, LV-1013, Riga, Latvia No 1396 – FIRES s.r.o., Osloboditelov 282, 059 35, Batizovice, Slovakia

The performance of the product identified above is in conformity with the set of declared performance/s (see attachments No 1).
This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:
TENAX PANEL, Project manager

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Baiba Cimermane
11.07.2025

TENAX GRUPA, TENAX PANEL SIA
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Declaration of Performance No 2S-T5N0-003, Annex 1

Sandwich panels TENAX TR50 MW S12, TENAX TR80 MW S12, TENAX TR100 MW S12, TENAX TR120 MW S12, TENAX TR150 MW S12, TENAX TR175 MW S12, TENAX TR200 MW S12, TENAX TR240 MW S12

Year when CE mark was affixed	20							
Essential characteristics	**Performance**							
Metal facings								
Thickness of external facing, mm	0,5; 0,6; 0,7							
Thickness of internal facing, mm	0,5; 0,6; 0,7							
Steel name	S280GD; S320GD							
Organic coating type and thickness	SP25; PVDF35							
Core material								
MW density, kg/m³	110							
Thermal conductivity, W/m·K	0,041							
Panel								
Thickness, mm								
-declared	50	80	100	120	150	175	200	240
-nominal	50	80	100	120	150	175	203	240
Panel weight, kg/m² (metal thickness 0,5/0,5 mm)	16,2	19,5	21,7	23,9	27,2	29,9	33,0	37,1
Shear modules of the core material, MPa	4,0	4,0	3,0	3,0	2,5	2,5	2,5	2,3
Shear strength of the panel, MPa	0,060	0,060	0,050	0,050	0,050	0,050	0,045	0,045
Long term shear strength, MPa								
Creep coefficient								
- t = 2 000 h	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
- t = 100 000 h	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0
Compressive strength of the core material, MPa	0,12	0,12	0,11	0,11	0,11	0,11	0,10	0,10
Cross-panel tensile strength, MPa	0,18	0,18	0,15	0,15	0,15	0,15	0,15	0,15
Wrinkling stress for inner face								
- in span	120	120	110	105	100	95	90	85
- for loads pressing at an internal support	110	110	105	100	95	90	90	80
Wrinkling stress for outer face, MPa								
- in span	220	220	210	200	190	180	160	140
- in span at elevated temperature	220	220	210	200	190	180	160	140
- for loads suction at an internal support	220	220	210	200	190	180	160	140
- for loads suction at an internal support at elevated temperature	220	220	210	200	190	180	160	140
Thermal transmittance, W/m²·K	0,75	0,49	0,40	0,33	0,27	0,23	0,20	0,17
Durability	Pass – All colour	Pass – All colours	Pass – All colours	Pass – All colours	Pass – All colours	Pass – All colours	Pass – All colours	Pass – All colours
Resistance to point loads	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Resistance to access loads, kPa	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Reaction to fire	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0
Fire resistance	NPD	NPD	NPD	NPD	REI90	REI90	REI90	REI90
External fire performance	B_{ROOF} (t1,t2,t3)	B_{ROOF} (t1,t2,t3)	B_{ROOF} (t1,t2,t3)	B_{ROOF} (t1,t2,t3)	B_{ROOF} (t1,t2,t3)	B_{ROOF} (t1,t2,t3)	B_{ROOF} (t1,t2,t3)	B_{ROOF} (t1,t2,t3)
Water permeability	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Air permeability	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Airborne sound insulation	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD

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