


**DECLARATION OF PERFORMANCE**  
**No 2S-S510-007**  
According to Regulation No 305/2011

Unique identification code of the product-type:	<b>Self-supporting double skin metal faced insulating panels (sandwich panels) TENAX with MW core</b>
Product name:	<b>TENAX W100 MW Thermo Plus T2 TENAX W120 MW Thermo Plus T2 TENAX W150 MW Thermo Plus T2 TENAX W175 MW Thermo Plus T2 TENAX W200 MW Thermo Plus T2 TENAX W240 MW Thermo Plus T2 TENAX W300 MW Thermo Plus T2</b>
Intended use:	<b>for use in internal and external walls and wall claddings in the buildings</b>
Manufacturer:	<b>TENAX PANEL, SIA</b> Spodribas 1, Dobeles, 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/ies:	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 attachment 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, SIA Head of laboratory



Mikus Bērziņš  
04.09.2020.

TENAX GRUPA, TENAX PANEL SIA  
Spodribas iela 1, Dobeles,  
LV3701, Latvija  
Reģ. Nr. LV40203186964

tenaxpanel@tenaxgrupa.lv  
T: +371 63707154  
M: +371 27777752  
www.tenaxpanel.com

## Declaration of Performance No 2S-S510-007, Annex 1

Sandwich panels TENAX W100 MW Thermo Plus T2, TENAX W120 MW Thermo Plus T2, TENAX W150 MW Thermo Plus T2, TENAX W175 MW Thermo Plus T2, TENAX W200 MW Thermo Plus T2, TENAX W240 MW Thermo Plus T2, TENAX W300 MW Thermo Plus T2

Year when CE mark was affixed	18						
<b>Essential characteristics</b>	<b>Performance</b>						
<b>Metal facings</b>							
Thickness of external facing, mm	0,5; 0,6; 0,7						
Thickness of internal facing, mm	0,5; 0,6; 0,7; 0,8						
Steel name	S280GD; S320GD						
Organic coating type and thickness	SP25; PVDF35; PVC150						
<b>Core material</b>							
MW density, kg/m <sup>3</sup>	95						
Thermal conductivity, W/m·K	0,040						
<b>Panel</b>							
Thickness, mm							
- declared	100	120	150	175	200	240	300
- nominal	100	120	150	175	203	240	300
Panel weight, kg/m <sup>2</sup> (metal thickness 0,5/0,5 mm)	18,5	20,4	23,3	25,7	28,3	31,8	37,5
Shear modulus of the core material, MPa	3,0	3,0	3,0	3,0	3,0	3,0	3,0
Shear strength of the panel, MPa	0,050	0,050	0,050	0,045	0,040	0,040	0,035
Long term shear strength, MPa	0,020	0,020	0,020	0,018	0,016	0,016	0,014
Creep coefficient							
- t = 2 000 h	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- t = 100 000 h	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Compressive strength of the core material, MPa	0,08	0,08	0,08	0,08	0,08	0,08	0,08
Cross-panel tensile strength, MPa	0,14	0,14	0,14	0,12	0,12	0,10	0,10
Wrinkling stress for inner face							
- in span	100	95	90	85	80	70	60
- for loads pressing at an internal support	70	70	70	70	70	70	60
Wrinkling stress for outer face, MPa							
- in span	100	95	90	85	80	70	60
- in span at elevated temperature	100	95	90	85	80	70	60
- at an internal support	70	70	70	70	70	70	60
- at an internal support at elevated temperature	70	70	70	70	70	70	60
Thermal transmittance, W/m <sup>2</sup> ·K	0,38	0,32	0,26	0,22	0,19	0,16	0,13
Durability	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
Resistance to access loads, kPa	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
Fire resistance for walls							
- horizontal installation	NPD	NPD	NPD	NPD	EI120	EI120	EI120
- vertical installation	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Fire resistance for ceilings	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Water permeability	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Air permeability	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Airborne sound insulation	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Sound absorption	NPD	NPD	NPD	NPD	NPD	NPD	NPD