

**DECLARATION OF PERFORMANCE**  
**No 2S-H5I0-003**  
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 W80 MW Thermo Plus H2 TENAX W100 MW Thermo Plus H2 TENAX W120 MW Thermo Plus H2 TENAX W150 MW Thermo Plus H2 TENAX W175 MW Thermo Plus H2 TENAX W200 MW Thermo Plus H2 TENAX W240 MW Thermo Plus H2</b>
Intended use:	<b>in internal and external walls and wall claddings in the buildings</b>
Manufacturer:	<b>TENAX PANEL, SIA Spodriibas 1, Dobeles, Latvia, LV- 3701</b>
System/s of AVCP:	<b>Scheme 1 (reaction to fire) Scheme 4</b>
Harmonised standard:	<b>EN 14509:2013</b>
Notified body/ies:	<b>Nr. 1325 - AS Inspecta Latvia, Skanstes Str. 54A, LV-1013, Riga, Latvia</b>

The performance of the product identified above is in conformity with the set of declared performance/s (see Annex 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 Product development director

  
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**Uldis Reknors**  
01.07.2020.

**Declaration of Performance No 2S-H510-003, Annex 1**

Sandwich panels TENAX W80 MW Thermo Plus H2, TENAX W100 MW Thermo Plus H2,  
TENAX W120 MW Thermo Plus H2, TENAX W150 MW Thermo Plus H2, TENAX W175 MW Thermo Plus H2,  
TENAX W200 MW Thermo Plus H2, TENAX W240 MW Thermo Plus H2

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						
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	80	100	120	150	175	200	240
- nominal	80	100	120	150	175	203	240
Panel weight, kg/m <sup>2</sup> (metal thickness 0,5/0,5 mm)	17,1	19,0	20,9	23,7	26,1	28,8	32,3
Shear modules of the core material, MPa	3,5	3,0	3,0	3,0	3,0	3,0	3,0
Shear strength of the panel, MPa	0,050	0,050	0,050	0,050	0,045	0,040	0,040
Long term shear strength, MPa	0,020	0,020	0,020	0,020	0,018	0,016	0,016
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	0,14	0,12	0,12	0,12
Wrinkling stress for inner face							
- in span	110	100	95	90	85	80	80
- for loads pressing at an internal support	70	70	70	70	70	70	70
Wrinkling stress for outer face, MPa							
- in span	110	100	95	90	85	80	80
- in span at elevated temperature	110	100	95	90	85	80	80
- at an internal support	70	70	70	70	70	70	70
- at an internal support at elevated temperature	70	70	70	70	70	70	70
Thermal transmittance, W/m <sup>2</sup> ·K	0,50	0,40	0,33	0,26	0,23	0,20	0,16
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 walls	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Fire resistance 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