

DECLARATION OF PERFORMANCE
No 2S-H4X0-005
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 PIR core
Product name:	TENAX W100 PIR H1 TENAX W120 PIR H1 TENAX W150 PIR H1 TENAX W200 PIR H1
Intended use:	for use in internal and external walls, wall claddings and ceilings in the buildings
Manufacturer:	TENAX PANEL, Ltd., Spodriibas 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/ies:	No 1325 - AS Inspecta Latvia, Skanstes Str. 54A, LV-1013, Riga, Latvia No 1796 - Priesgaisrines apsaugos ir gelbejimo departamento prie vidaus reikalu ministerijos gaisrinu tyrimu centras, Svitrigailos str. 18, LT-03223 Vilnius, Lithuania

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, Ltd. Product development director

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Uldis Reknors
02.01.2019.

Declaration of Performance No 2S-H4X0-005, Annex 1
**Sandwich panels TENAX W100 PIR H1, TENAX W120 PIR H1, TENAX W150 PIR H1,
TENAX W200 PIR H1**

Year when CE mark was affixed	16			
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	S250GD; S280GD; S320GD			
Organic coating type and thickness	SP25; PVDF35; PVC150			
Core material				
PIR density, kg/m ³	40			
Thermal conductivity, W/m·K	0,021			
Panel				
Thickness, mm	100	120	150	200
Panel weight, kg/m ² (metal thickness 0,5/0,5 mm)	13,1	14,1	15,3	17,4
Shear modulus of the core material, MPa	2,8	2,5	2,3	2,2
Shear strength of the panel, MPa	0,11	0,11	0,10	0,08
Long term shear strength, MPa	0,05	0,05	0,05	0,04
Creep coefficient				
- t = 2 000 h	1,5	1,5	1,5	1,5
- t = 100 000 h	3,0	3,0	3,0	3,0
Compressive strength of the core material, MPa	0,11	0,11	0,10	0,11
Cross-panel tensile strength, MPa	0,08	0,08	0,08	0,06
Wrinkling stress for inner face				
- in span	130	130	130	110
- for loads pressing at an internal support	120	120	120	90
Wrinkling stress for outer face, MPa				
- in span	160	170	180	180
- in span at elevated temperature	140	150	160	160
- at an internal support	140	140	140	110
- at an internal support at elevated temperature	120	120	120	100
Thermal transmittance, W/m ² ·K	0,22	0,18	0,14	0,11
Durability	Pass – all colours	Pass – all colours	Pass – all colours	Pass – all colours
Resistance to point loads	NPD	NPD	NPD	NPD
Resistance to access loads, kPa	Not pass	Not pass	Not pass	Not pass
Reaction to fire	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
Fire resistance	NPD	EI30	EI30	EI30
Water permeability	NPD	NPD	NPD	NPD
Air permeability	NPD	NPD	NPD	NPD
Airborne sound insulation	NPD	NPD	NPD	NPD
Sound absorption	NPD	NPD	NPD	NPD



Declaration of Performance No 2S-H4X0-005, Annex 2

Sandwich panels TENAX W100 PIR H1, TENAX W120 PIR H1, TENAX W150 PIR H1, TENAX W200 PIR H1

Year when CE mark was affixed	16			
Essential characteristics	Performance			
Metal facings				
Thickness of external facing, mm	0,5; 0,6; 0,7			
Thickness of internal facing, mm	0,4			
Steel name	S250GD; S280GD; S320GD			
Organic coating type and thickness	SP25; PVDF35; PVC150			
Core material				
PIR density, kg/m ³	40			
Thermal conductivity, W/m·K	0,021			
Panel				
Thickness, mm	100	120	150	200
Panel weight, kg/m ² (metal thickness 0,5/0,5 mm)	13,1	14,1	15,3	17,4
Shear modulus of the core material, MPa	2,8	2,5	2,3	2,2
Shear strength of the panel, MPa	0,11	0,11	0,10	0,08
Long term shear strength, MPa	0,05	0,05	0,05	0,04
Creep coefficient				
- t = 2 000 h	1,5	1,5	1,5	1,5
- t = 100 000 h	3,0	3,0	3,0	3,0
Compressive strength of the core material, MPa	0,11	0,11	0,10	0,11
Cross-panel tensile strength, MPa	0,08	0,08	0,08	0,06
Wrinkling stress for inner face				
- in span	130	130	130	110
- for loads pressing at an internal support	120	120	120	90
Wrinkling stress for outer face, MPa				
- in span	160	170	180	180
- in span at elevated temperature	140	150	160	160
- at an internal support	140	140	140	110
- at an internal support at elevated temperature	120	120	120	100
Thermal transmittance, W/m ² ·K	0,22	0,18	0,14	0,11
Durability	Pass – all colours	Pass – all colours	Pass – all colours	Pass – all colours
Resistance to point loads	NPD	NPD	NPD	NPD
Resistance to access loads, kPa	Not pass	Not pass	Not pass	Not pass
Reaction to fire	NPD	NPD	NPD	NPD
Fire resistance	NPD	NPD	NPD	NPD
Water permeability	NPD	NPD	NPD	NPD
Air permeability	NPD	NPD	NPD	NPD
Airborne sound insulation	NPD	NPD	NPD	NPD
Sound absorption	NPD	NPD	NPD	NPD

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