DECLARATION OF PERFORMANCE
No 2S-S4X3-006
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 W50 PIR S1** **TENAX W80 PIR S1** **TENAX W100 PIR T1** **TENAX W120 PIR T1** **TENAX W150 PIR T1** **TENAX W175 PIR T1** **TENAX W200 PIR T1**
Intended use:	**for use in internal and external walls, wall claddings and ceilings in the buildings**
Manufacturer:	**TENAX PANEL, Ltd.,** 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/ies:	No 1325 - AS Inspecta Latvia, Skanstes Str. 54A, LV-1013, Riga, Latvia No 1796 - Priesgaisrines apsaugos ir gelbejimo departamento prie vidaus reikalu ministerijos gaisriniu 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 and No 2). 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 Rekners
02.01.2019.

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Declaration of Performance No 2S-S4X3-006, Annex 1
Sandwich panels TENAX W50 PIR S1, TENAX W80 PIR S1

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	50	80
Panel weight, kg/m^2 (metal thickness 0,5/0,5 mm)	10,8	12,1
Shear modules of the core material, MPa	3,2	3,0
Shear strength of the panel, MPa	0,12	0,12
Long term shear strength, MPa	0,06	0,06
Creep coefficient		
- t = 2 000 h	1,5	1,5
- t = 100 000 h	3,0	3,0
Compressive strength of the core material, MPa	0,12	0,11
Cross-panel tensile strength, MPa	0,08	0,08
Wrinkling stress for inner face		
- in span	110	110
- for loads pressing at an internal support	100	100
Wrinkling stress for outer face, MPa		
- in span	150	160
- in span at elevated temperature	130	140
- at an internal support	120	120
- at an internal support at elevated temperature	110	110
Thermal transmittance, W/m^2·K	0,43	0,26
Durability	Pass – all colours	Pass – all colours
Resistance to point loads	NPD	NPD
Resistance to access loads, kPa	Not pass	Not pass
Reaction to fire	B-s1,d0	B-s1,d0
Fire resistance	NPD	NPD
Water permeability	NPD	NPD
Air permeability	NPD	NPD
Airborne sound insulation	NPD	NPD
Sound absorption	NPD	NPD

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Declaration of Performance No 2S-S4X3-006, Annex 2
Sandwich panels TENAX W100 PIR T1, TENAX W120 PIR T1, TENAX W150 PIR T1, TENAX W175 PIR T1, TENAX W200 PIR T1

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	175	200
Panel weight, kg/m^2 (metal thickness 0,5/0,5 mm)	12,8	13,7	14,9	15,9	16,9
Shear modules of the core material, MPa	2,8	2,5	2,3	2,2	2,2
Shear strength of the panel, MPa	0,11	0,11	0,10	0,08	0,08
Long term shear strength, MPa	0,05	0,05	0,05	0,05	0,05
Creep coefficient					
- t = 2 000 h	1,5	1,5	1,5	1,5	1,5
- t = 100 000 h	3,0	3,0	3,0	3,0	3,0
Compressive strength of the core material, MPa	0,11	0,11	0,10	0,10	0,11
Cross-panel tensile strength, MPa	0,08	0,08	0,08	0,07	0,06
Wrinkling stress for inner face					
- in span	130	130	130	120	110
- for loads pressing at an internal support	120	120	120	100	90
Wrinkling stress for outer face, MPa					
- in span	160	170	180	180	180
- in span at elevated temperature	140	150	160	160	160
- at an internal support	140	140	140	120	110
- at an internal support at elevated temperature	120	120	120	110	100
Thermal transmittance, W/m^2·K	0,21	0,17	0,14	0,12	0,10
Durability	Pass – all colours	Pass – all colours	Pass – all colours	Pass – all colours	Pass – all colours
Resistance to point loads	NPD	NPD	NPD	NPD	NPD
Resistance to access loads, kPa	Not pass	Not pass	Not pass	Not pass	Not pass
Reaction to fire	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
Fire resistance	EI15	EI30	EI30	EI30	EI30
Water permeability	NPD	NPD	NPD	NPD	NPD
Air permeability	NPD	NPD	NPD	NPD	NPD
Airborne sound insulation	NPD	NPD	NPD	NPD	NPD
Sound absorption	NPD	NPD	NPD	NPD	NPD

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Declaration of Performance No 2S-S4X3-006, Annex 3
Sandwich panels TENAX W50 PIR S1, TENAX W80 PIR S1

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	50	80
Panel weight, kg/m^2 (metal thickness 0,5/0,5 mm)	10,8	12,1
Shear modules of the core material, MPa	3,2	3,0
Shear strength of the panel, MPa	0,12	0,12
Long term shear strength, MPa	0,06	0,06
Creep coefficient		
- t = 2 000 h	1,5	1,5
- t = 100 000 h	3,0	3,0
Compressive strength of the core material, MPa	0,12	0,11
Cross-panel tensile strength, MPa	0,08	0,08
Wrinkling stress for inner face		
- in span	110	110
- for loads pressing at an internal support	100	100
Wrinkling stress for outer face, MPa		
- in span	150	160
- in span at elevated temperature	130	140
- at an internal support	120	120
- at an internal support at elevated temperature	110	110
Thermal transmittance, W/m^2·K	0,43	0,26
Durability	Pass – all colours	Pass – all colours
Resistance to point loads	NPD	NPD
Resistance to access loads, kPa	Not pass	Not pass
Reaction to fire	NPD	NPD
Fire resistance	NPD	NPD
Water permeability	NPD	NPD
Air permeability	NPD	NPD
Airborne sound insulation	NPD	NPD
Sound absorption	NPD	NPD

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Declaration of Performance No 2S-S4X3-006, Annex 4
Sandwich panels TENAX W100 PIR T1, TENAX W120 PIR T1, TENAX W150 PIR T1, TENAX W175 PIR T1, TENAX W200 PIR T1

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	175	200
Panel weight, kg/m^2 (metal thickness 0,5/0,5 mm)	12,8	13,7	14,9	15,9	16,9
Shear modules of the core material, MPa	2,8	2,5	2,3	2,2	2,2
Shear strength of the panel, MPa	0,11	0,11	0,10	0,08	0,08
Long term shear strength, MPa	0,05	0,05	0,05	0,05	0,05
Creep coefficient					
- t = 2 000 h	1,5	1,5	1,5	1,5	1,5
- t = 100 000 h	3,0	3,0	3,0	3,0	3,0
Compressive strength of the core material, MPa	0,11	0,11	0,10	0,10	0,11
Cross-panel tensile strength, MPa	0,08	0,08	0,08	0,07	0,06
Wrinkling stress for inner face					
- in span	130	130	130	120	110
- for loads pressing at an internal support	120	120	120	100	90
Wrinkling stress for outer face, MPa					
- in span	160	170	180	180	180
- in span at elevated temperature	140	150	160	160	160
- at an internal support	140	140	140	120	110
- at an internal support at elevated temperature	120	120	120	110	100
Thermal transmittance, W/m^2·K	0,21	0,17	0,14	0,12	0,10
Durability	Pass – all colours	Pass – all colours	Pass – all colours	Pass – all colours	Pass – all colours
Resistance to point loads	NPD	NPD	NPD	NPD	NPD
Resistance to access loads, kPa	Not pass	Not pass	Not pass	Not pass	Not pass
Reaction to fire	NPD	NPD	NPD	NPD	NPD
Fire resistance	EI15	EI30	EI30	EI30	EI30
Water permeability	NPD	NPD	NPD	NPD	NPD
Air permeability	NPD	NPD	NPD	NPD	NPD
Airborne sound insulation	NPD	NPD	NPD	NPD	NPD
Sound absorption	NPD	NPD	NPD	NPD	NPD

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