DECLARATION OF PERFORMANCE
No 2S-T4X3-009
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 TR50 PIR S11** **TENAX TR80 PIR S11** **TENAX TR100 PIR S11** **TENAX TR120 PIR S11** **TENAX TR150 PIR S11** **TENAX TR200 PIR S11**
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/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 Attachments 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, project manager

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Baiba Cimermane
13.03.2026.

TENAX GRUPA, TENAX PANEL SIA
Spodrības iela 1, Dobele,
LV3701, Latvija
Reģ. Nr. LV40203186964

Tenaxpanel@tenaxgrupa.lv
T: +371 63720957
M: +371 27777752
www. tenaxpanel.com

Declaration of Performance No 2S-T4X3-009, Annex 1

Sandwich panels TENAX TR50 PIR S11, TENAX TR80 PIR S11, TENAX TR100 PIR S11, TENAX TR120 PIR S11, TENAX TR150 PIR S11, TENAX TR200 PIR S11

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	S280GD; S320GD					
Organic coating type and thickness	SP25; PVDF35					
Core material						
PIR density, kg/m^3	40					
Thermal conductivity, W/m·K	0,021					
Panel						
Thickness, mm	50	80	100	120	150	200
Panel weight, kg/m^2 (metal thickness 0,5/0,5 mm)	11,9	13,2	14,0	14,9	16,1	18,2
Shear modules of the core material, MPa	3,5	3,2	3,1	3,1	2,7	2,5
Shear strength of the panel, MPa	0,12	0,12	0,12	0,12	0,11	0,10
Long term shear strength, MPa	0,050	0,050	0,050	0,050	0,045	0,040
Creep coefficient						
- t = 2 000 h	1,60	1,60	1,60	1,60	1,60	1,60
- t = 100 000 h	2,55	2,55	2,55	2,55	2,55	2,55
Compressive strength of the core material, MPa	0,12	0,12	0,12	0,12	0,12	0,12
Cross-panel tensile strength, MPa	0,07	0,07	0,08	0,11	0,10	0,07
Wrinkling stress for inner face, MPa						
- in span	90	90	90	90	90	90
- for loads pressing at an internal support	90	90	90	90	90	90
Wrinkling stress for outer face, MPa						
- in span	280	270	260	245	230	220
- in span at elevated temperature	280	270	260	245	230	220
- for loads suction at an internal support	250	240	230	220	210	200
- for loads suction at an internal support at elevated temperature	250	240	230	220	210	200
Thermal transmittance, W/m^2·K	0,40	0,25	0,20	0,17	0,14	0,10
Durability	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
Resistance to access loads	pass	pass	pass	pass	pass	pass
Reaction to fire	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
Fire resistance	NPD	NPD	NPD	NPD	REI30	REI30
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)*
Water permeability	NPD	NPD	NPD	NPD	NPD	NPD
Air permeability	NPD	NPD	NPD	NPD	NPD	NPD
Airborne sound insulation	NPD	NPD	NPD	NPD	NPD	NPD

*CWFT

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TENAXPANEL

Declaration of Performance No 2S-T4X3-009, Annex 2

Sandwich panels TENAX TR50 PIR S11, TENAX TR80 PIR S11, TENAX TR100 PIR S11, TENAX TR120 PIR S11, TENAX TR150 PIR S11, TENAX TR200 PIR S11

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	S280GD; S320GD					
Organic coating type and thickness	SP25; PVDF35					
Core material						
PIR density, kg/m³	40					
Thermal conductivity, W/m·K	0,021					
Panel						
Thickness, mm	50	80	100	120	150	200
Panel weight, kg/m² (metal thickness 0,5/0,4 mm)	11,1	12,4	13,2	14,1	15,3	17,4
Shear modules of the core material, MPa	3,5	3,2	3,1	3,1	2,7	2,5
Shear strength of the panel, MPa	0,12	0,12	0,12	0,12	0,11	0,10
Long term shear strength, MPa	0,050	0,050	0,050	0,050	0,045	0,040
Creep coefficient						
- t = 2 000 h	1,60	1,60	1,60	1,60	1,60	1,60
- t = 100 000 h	2,55	2,55	2,55	2,55	2,55	2,55
Compressive strength of the core material, MPa	0,12	0,12	0,12	0,12	0,12	0,12
Cross-panel tensile strength, MPa	0,07	0,07	0,08	0,11	0,10	0,07
Wrinkling stress for inner face, MPa						
- in span	80	80	80	80	80	80
- for loads pressing at an internal support	80	80	80	80	80	80
Wrinkling stress for outer face, MPa						
- in span	280	270	260	245	230	220
- in span at elevated temperature	280	270	260	245	230	220
- for loads suction at an internal support	250	240	230	220	210	200
- for loads suction at an internal support at elevated temperature	250	240	230	220	210	200
Thermal transmittance, W/m²·K	0,40	0,25	0,20	0,17	0,14	0,10
Durability	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
Resistance to access loads	pass	pass	pass	pass	pass	pass
Reaction to fire	NPD	NPD	NPD	NPD	NPD	NPD
Fire resistance	NPD	NPD	NPD	NPD	NPD	NPD
External fire performance	$B_{ROOF(t1)}$	$B_{ROOF(t1)}$	$B_{ROOF(t1)}$	$B_{ROOF(t1)}$	$B_{ROOF(t1)}$	$B_{ROOF(t1)}$
Water permeability	NPD	NPD	NPD	NPD	NPD	NPD
Air permeability	NPD	NPD	NPD	NPD	NPD	NPD
Airborne sound insulation	NPD	NPD	NPD	NPD	NPD	NPD

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