



DECLARATION OF PERFORMANCE
No 1S-R1B0-002
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 EPS core**

Product name:

TENAX R80 EPS B	TENAX R120 EPS B	TENAX R190 EPS B
TENAX R85 EPS B	TENAX R125 EPS B	TENAX R195 EPS B
TENAX R90 EPS B	TENAX R130 EPS B	TENAX R200 EPS B
TENAX R95 EPS B	TENAX R135 EPS B	TENAX R205 EPS B
TENAX R100 EPS B	TENAX R140 EPS B	TENAX R210 EPS B
TENAX R105 EPS B	TENAX R145 EPS B	TENAX R215 EPS B
TENAX R110 EPS B	TENAX R150 EPS B	TENAX R220 EPS B
TENAX R115 EPS B	TENAX R155 EPS B	TENAX R225 EPS B
	TENAX R160 EPS B	TENAX R230 EPS B
	TENAX R165 EPS B	TENAX R235 EPS B
	TENAX R170 EPS B	TENAX R240 EPS B
	TENAX R175 EPS B	TENAX R245 EPS B
	TENAX R180 EPS B	TENAX R250 EPS B
	TENAX R185 EPS B	

Intended use: **for roofs and roof claddings**

Manufacturer: **TENAX PANEL, SIA,
Spodriibas 1, Dobeles, Latvia, LV- 3701**

System/s of AVCP: **System 4**

Harmonised standard: **EN 14509:2013**

Notified body/ies:

The performance of the product identified above is in conformity with the set of declared performance/s (see attachments No 1, No 2, No 3 and No 4).

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 Reknars
19.02.2019.

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Declaration of Performance No 1S-R1B0-002, Annex 1
Sandwich panels TENAX R80 EPS B, TENAX R85 EPS B, TENAX R90 EPS B, TENAX R95 EPS B

Year when CE mark was affixed	10			
Essential characteristics	Performance			
Metal facings				
Thickness, mm	0,5; 0,6; 0,7; 0,8			
Steel name	S250GD; S280GD; S320GD			
Organic coating type and thickness	SP25; PVDF35			
Core material				
EPS density, kg/m ³	16,5			
Thermal conductivity, W/m·K	0,038			
Panel				
Thickness, mm	80	85	90	95
Panel weight, kg/m ² (metal thickness 0,5/0,5 mm)	10,2	10,2	10,3	10,4
Shear modulus of the core material, MPa	2,6	2,6	2,5	2,5
Shear strength of the panel, MPa	0,06	0,06	0,06	0,06
Long term shear strength, MPa	0,02	0,02	0,02	0,02
Creep coefficient				
- t = 2 000 h	0,75	0,75	0,75	0,75
- t = 100 000 h	0,80	0,80	0,80	0,80
Compressive strength of the core material, MPa	0,08	0,08	0,08	0,08
Cross-panel tensile strength, MPa	0,10	0,10	0,10	0,10
Wrinkling stress for inner face				
- in span	80	80	80	80
- for loads pressing at an internal support	80	80	80	80
Wrinkling stress for outer face, MPa				
- in span	80	80	80	80
- in span at elevated temperature	NPD	NPD	NPD	NPD
- for loads suction at an internal support	80	80	80	80
- for loads suction at an internal support at elevated temperature	NPD	NPD	NPD	NPD
Thermal transmittance, W/m ² ·K	0,45	0,43	0,41	0,38
Durability	Pass – light and medium light colours			
Resistance to point loads	NPD			
Resistance to access loads, kPa	Not pass			
Reaction to fire	NPD			
Fire resistance	NPD			
Water permeability	NPD			
Air permeability	NPD			
Airborne sound insulation	NPD			
Sound absorption	NPD			

Declaration of Performance No 1S-R1B0-002, Annex 2
Sandwich panels
TENAX R100 EPS B, TENAX R105 EPS B, TENAX R110 EPS B, TENAX R115 EPS B, TENAX R120 EPS B, TENAX R125 EPS B, TENAX R130 EPS B, TENAX R135 EPS B, TENAX R140 EPS B, TENAX R145 EPS B

Year when CE mark was affixed	10									
Essential characteristics	Performance									
Metal facings										
Thickness, mm	0,5; 0,6; 0,7; 0,8									
Steel name	S250GD; S280GD; S320GD									
Organic coating type and thickness	SP25; PVDF35									
Core material										
EPS density, kg/m ³	16,5									
Thermal conductivity, W/m·K	0,038									
Panel										
Thickness, mm	100	105	110	115	120	125	130	135	140	145
Panel weight, kg/m ² (metal thickness 0,5/0,5 mm)	10,5	10,6	10,6	10,7	10,8	10,9	11,0	11,1	11,1	11,2
Shear modulus of the core material, MPa	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Shear strength of the panel, MPa	0,06	0,06	0,06	0,06	0,05	0,05	0,05	0,05	0,05	0,05
Long term shear strength, MPa	0,02	0,02	0,02	0,02	0,02	0,02	0,02	0,02	0,02	0,02
Creep coefficient										
- t = 2 000 h	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
- t = 100 000 h	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80
Compressive strength of the core material, MPa	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08
Cross-panel tensile strength, MPa	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10
Wrinkling stress for inner face										
- in span	80	80	80	80	80	80	80	80	80	80
- for loads pressing at an internal support	80	80	80	80	80	80	80	80	80	80
Wrinkling stress for outer face, MPa										
- in span	80	80	80	80	80	80	80	80	80	80
- in span at elevated temperature	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- for loads suction at an internal support	80	80	80	80	80	80	80	80	80	80
- for loads suction at an internal support at elevated temperature	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Thermal transmittance, W/m ² ·K	0,37	0,35	0,33	0,32	0,31	0,29	0,28	0,27	0,26	0,26
Durability	Pass – light and medium light colours									
Resistance to point loads	NPD									
Resistance to access loads, kPa	Not pass									
Reaction to fire	NPD									
Fire resistance	NPD									
Water permeability	NPD									
Air permeability	NPD									
Airborne sound insulation	NPD									
Sound absorption	NPD									

Declaration of Performance No 1S-R1B0-002, Annex 3
Sandwich panels
**TENAX R150 EPS B, TENAX R155 EPS B, TENAX R160 EPS B, TENAX R165 EPS B, TENAX R170 EPS B,
TENAX R175 EPS B, TENAX R180 EPS B, TENAX R185 EPS B, TENAX R190 EPS B, TENAX R195 EPS B**

Year when CE mark was affixed	10									
Essential characteristics	Performance									
Metal facings										
Thickness, mm	0,5; 0,6; 0,7; 0,8									
Steel name	S250GD; S280GD; S320GD									
Organic coating type and thickness	SP25; PVDF35									
Core material										
EPS density, kg/m ³	16,5									
Thermal conductivity, W/m-K	0,038									
Panel										
Thickness, mm	150	155	160	165	170	175	180	185	190	195
Panel weight, kg/m ² (metal thickness 0,5/0,5 mm)	11,3	11,4	11,5	11,6	11,6	11,7	11,8	11,9	12,0	12,0
Shear modules of the core material, MPa	2,3	2,3	2,3	2,3	2,3	2,3	2,2	2,2	2,2	2,2
Shear strength of the panel, MPa	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05
Long term shear strength, MPa	0,02	0,02	0,02	0,02	0,02	0,02	0,02	0,02	0,02	0,02
Creep coefficient										
- t = 2 000 h	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
- t = 100 000 h	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80
Compressive strength of the core material, MPa	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08
Cross-panel tensile strength, MPa	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10
Wrinkling stress for inner face										
- in span	80	80	80	80	80	80	80	80	80	80
- for loads pressing at an internal support	80	80	80	80	80	80	80	80	80	80
Wrinkling stress for outer face, MPa										
- in span	80	80	80	80	80	80	80	80	80	80
- in span at elevated temperature	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- for loads suction at an internal support	80	80	80	80	80	80	80	80	80	80
- for loads suction at an internal support at elevated temperature	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Thermal transmittance, W/m ² -K	0,25	0,24	0,23	0,23	0,22	0,21	0,21	0,20	0,20	0,19
Durability	Pass – light and medium light colours									
Resistance to point loads	NPD									
Resistance to access loads, kPa	Not pass									
Reaction to fire	NPD									
Fire resistance	NPD									
Water permeability	NPD									
Air permeability	NPD									
Airborne sound insulation	NPD									
Sound absorption	NPD									



Declaration of Performance No 1S-R1B0-002, Annex 4

Sandwich panels TENAX R200 EPS B, TENAX R205 EPS B, TENAX R210 EPS B, TENAX R215 EPS B, TENAX R220 EPS B, TENAX R225 EPS B, TENAX R230 EPS B, TENAX R235 EPS B, TENAX R240 EPS B, TENAX R245 EPS B, TENAX R250 EPS B

Year when CE mark was affixed	10										
Essential characteristics	Performance										
Metal facings											
Thickness, mm	0,5; 0,6; 0,7; 0,8										
Steel name	S250GD; S280GD; S320GD										
Organic coating type and thickness	SP25; PVDF35										
Core material											
EPS density, kg/m ³	16,5										
Thermal conductivity, W/m·K	0,038										
Panel											
Thickness, mm	200	205	210	215	220	225	230	235	240	245	250
Panel weight, kg/m ² (metal thickness 0,5/0,5 mm)	12,1	12,2	12,3	12,4	12,5	12,5	12,6	12,7	12,8	12,9	13,0
Shear modules of the core material, MPa	2,1	2,1	2,1	2,1	2,0	2,0	2,0	2,0	2,0	2,0	2,0
Shear strength of the panel, MPa	0,04	0,04	0,04	0,04	0,04	0,04	0,04	0,04	0,04	0,04	0,04
Long term shear strength, MPa	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01
Creep coefficient											
- t = 2 000 h	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
- t = 100 000 h	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80
Compressive strength of the core material, MPa	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08	0,08
Cross-panel tensile strength, MPa	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10	0,10
Wrinkling stress for inner face											
- in span	80	80	80	80	80	80	80	80	80	80	80
- for loads pressing at an internal support	80	80	80	80	80	80	80	80	80	80	80
Wrinkling stress for outer face, MPa											
- in span	80	80	80	80	80	80	80	80	80	80	80
- in span at elevated temperature	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- for loads suction at an internal support	80	80	80	80	80	80	80	80	80	80	80
- for loads suction at an internal support at elevated temperature	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Thermal transmittance, W/m ² ·K	0,19	0,18	0,18	0,17	0,17	0,17	0,16	0,16	0,16	0,15	0,15
Durability	Pass – light and medium light colours										
Resistance to point loads	NPD										
Resistance to access loads, kPa	Not pass										
Reaction to fire	NPD										
Fire resistance	NPD										
Water permeability	NPD										
Air permeability	NPD										
Airborne sound insulation	NPD										
Sound absorption	NPD										