DECLARATION OF PERFORMANCE
No 2S-T3X0-005

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 PUR core**
Product name:	**TENAX TR40 PUR S11** **TENAX TR50 PUR S11** **TENAX TR80 PUR S11** **TENAX TR100 PUR S11** **TENAX TR120 PUR S11** **TENAX TR150 PUR S11** **TENAX TR200 PUR S11**
Intended use:	**for roofs and roof claddings**
Manufacturer:	**TENAX PANEL, Ltd.,** Spodrības 1, Dobele, Latvia, LV- 3701
System/s of AVCP:	Scheme 4
Harmonised standard:	EN 14509:2013

The performance of the product identified above is in conformity with the set of declared performance/s (see attachment 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

.....
Uldis Rekners
02.01.2019.

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

Tenaxpanel@tenaxgrupa.lv
T: +371 63720857
M: +371 27777752
www. tenaxpanel.com

Declaration of Performance No 2S-T3X0-005, Annex 1

Sandwich panels TENAX TR40 PUR S11, TENAX TR50 PUR S11, TENAX TR80 PUR S11, TENAX TR100 PUR S11, TENAX TR120 PUR S11, TENAX TR150 PUR S11, TENAX TR200 PUR 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; 0,5; 0,6; 0,7						
Steel name	S250GD; S280GD; S320GD						
Organic coating type and thickness	SP25; PVDF35						
Core material							
PUR density, kg/m^3	39						
Thermal conductivity, W/m·K	0,023						
Panel							
Thickness, mm	40	50	80	100	120	150	200
Panel weight, kg/m^2 (metal thickness 0,5/0,5 mm)	11,4	11,8	12,9	13,7	14,5	15,7	17,6
Shear modules of the core material, MPa	3,5	3,2	3,0	2,9	2,7	2,5	2,0
Shear strength of the panel, MPa	0,12	0,12	0,12	0,11	0,10	0,08	0,07
Long term shear strength, MPa	0,055	0,055	0,055	0,055	0,045	0,040	0,035
Creep coefficient							
- t = 2 000 h	1,60	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	2,55
Compressive strength of the core material, MPa	0,11	0,11	0,11	0,11	0,11	0,11	0,11
Cross-panel tensile strength, MPa	0,09	0,09	0,09	0,09	0,08	0,07	0,07
Wrinkling stress for inner face							
- in span	90	90	90	90	90	90	90
- for loads pressing at an internal support	70	70	70	70	70	70	70
Wrinkling stress for outer face, MPa							
- in span	130	140	150	160	150	150	140
- in span at elevated temperature	130	140	150	160	150	150	140
- for loads suction at an internal support	120	130	140	140	140	140	130
- for loads suction at an internal support at elevated temperature	120	130	140	140	140	140	130
Thermal transmittance, W/m^2·K	0,53	0,43	0,28	0,22	0,19	0,15	0,11
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	pass	pass	pass	Pass	pass	Pass	pass
Reaction to fire	F	F	F	F	F	F	F
Fire resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
External fire performance	F_{ROOF}	F_{ROOF}	F_{ROOF}	F_{ROOF}	F_{ROOF}	F_{ROOF}	F_{ROOF}
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

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