DECLARATION OF PERFORMANCE
No 2S-H3X0-004

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 W100 PUR H1** **TENAX W120 PUR H1** **TENAX W150 PUR H1** **TENAX W200 PUR H1** **TENAX W220 PUR H1**
Intended use:	**for use in internal and external walls, wall claddings and ceilings in the buildings**
Manufacturer:	**TENAX PANEL, SIA** 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 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, SIA Product development director

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Uldis Rekners
12.02.2019.

TENAX GRUPA, TENAX PANEL SIA
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Declaration of Performance No 2S-H3X0-004, Annex 1

Sandwich panels TENAX W100 PUR H1, TENAX W120 PUR H1, TENAX W150 PUR H1, TENAX W200 PUR H1, TENAX W220 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; 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	100	120	150	200	220
Panel weight, kg/m^2 (metal thickness 0,5/0,5 mm)	13,1	13,9	15,0	17,0	17,8
Shear modules of the core material, MPa	3,3	3,1	2,6	2,5	2,0
Shear strength of the panel, MPa	0,10	0,10	0,08	0,075	0,07
Long term shear strength, MPa	0,05	0,05	0,05	0,04	0,035
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	0,12	0,11	0,11	0,11	0,11
Cross-panel tensile strength, MPa	0,09	0,10	0,08	0,07	0,06
Wrinkling stress for inner face					
- in span	130	130	120	110	100
- for loads pressing at an internal support	120	120	110	90	80
Wrinkling stress for outer face, MPa					
- in span	150	150	150	140	120
- in span at elevated temperature	135	135	135	120	100
- at an internal support	120	120	120	110	110
- at an internal support at elevated temperature	100	100	100	100	100
Thermal transmittance, W/m^2·K	0,24	0,19	0,16	0,12	0,11
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	NPD	NPD	NPD	NPD	NPD
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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