TENAXPANEL

DECLARATION OF PERFORMANCE
No 2S-H5P0-002
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 MW core**
Product name:	**TENAX W80 MW Strong H2** **TENAX W100 MW Strong H2** **TENAX W120 MW Strong H2** **TENAX W150 MW Strong H2** **TENAX W175 MW Strong H2** **TENAX W200 MW Strong H2** **TENAX W240 MW Strong H2**
Intended use:	**for 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 1 (Reaction to fire) Scheme 3 (Fire resistance) Scheme 4
Harmonised standard:	EN 14509:2013
Notified body/ies:	Nr. 1325 - AS Inspecta Latvia, Skanstes iela 54A, LV-1013, Rīga, Latvija Nr. 1396 – FIRES s.r.o., Osloboditelov 282, 059 35, Batizovice, Slovākija Nr. 1796 - Priesgaisrines apsaugos ir gelbejimo departamento prie vidaus reikalu ministerijos gaisriniu tyrimu centras, Svitrigailos iela-18, LT-03223 Viļņa,Lietuva

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, SIA Product development director

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Uldis Rekners
01.07.2020.

TENAX GRUPA, TENAX PANEL SIA
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Declaration of Performance No 2S-H5P0-001, Annex 1

Sandwich panels TENAX W80 MW Strong H2, TENAX W100 MW Strong H2, TENAX W120 MW Strong H2, TENAX W150 MW Strong H2, TENAX W175 MW Strong H2, TENAX W200 MW Strong H2, TENAX W240 MW Strong H2

Year when CE mark was affixed	19						
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; 0,8						
Steel name	S280GD; S320GD						
Organic coating type and thickness	SP25; PVDF35; PVC150						
Core material							
MW density, kg/m³	120						
Thermal conductivity, W/m·K	0,045						
Panel							
Thickness, mm							
- declared	80	100	120	150	175	200	240
- nominal	80	100	120	150	175	203	240
Panel weight, kg/m² (metal thickness 0,5/0,5 mm)	19,1	21,5	23,9	27,5	30,5	33,9	38,3
Shear modules of the core material, MPa	5,5	5,5	5,5	5,5	5,5	5,5	5,5
Shear strength of the panel, MPa	0,075	0,075	0,075	0,075	0,075	0,070	0,070
Long term shear strength, MPa	0,030	0,030	0,030	0,030	0,030	0,030	0,030
Creep coefficient							
- t = 2 000 h	0,3	0,3	0,3	0,3	0,3	0,3	0,3
- t = 100 000 h	0,4	0,4	0,4	0,4	0,4	0,4	0,4
Compressive strength of the core material, MPa	0,13	0,13	0,13	0,13	0,13	0,13	0,13
Cross-panel tensile strength, MPa	0,16	0,16	0,16	0,16	0,16	0,15	0,15
Wrinkling stress for inner face							
- in span	130	130	130	130	130	120	120
- for loads pressing at an internal support	100	100	100	100	100	100	100
Wrinkling stress for outer face, MPa							
- in span	130	130	130	130	130	120	120
- in span at elevated temperature	120	120	120	120	120	100	100
- at an internal support	100	100	100	100	100	100	100
- at an internal support at elevated temperature	100	100	100	100	100	100	100
Thermal transmittance, W/m²·K	0,56	0,44	0,37	0,30	0,25	0,22	0,18
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	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Reaction to fire	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0	A2-s1,d0
Fire resistance for walls							
- horizontal installation	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- vertical installation	NPD	EI30/EI30	EI30/EI30	EI120/EI60	EI120/EI60	EI120/EI60	EI120/EI60
Fire resistance for ceilings	NPD	NPD	NPD	NPD	NPD	NPD	NPD
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
Sound absorption	NPD	NPD	NPD	NPD	NPD	NPD	NPD

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