**DECLARATION OF PERFORMANCE**
**No 2S-S3X0-004**
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 W50 PUR S1**<br>**TENAX W80 PUR S1**<br>**TENAX W100 PUR T1**<br>**TENAX W120 PUR T1**<br>**TENAX W150 PUR T1**<br>**TENAX W175 PUR T1**<br>**TENAX W200 PUR T1**<br>**TENAX W220 PUR T1** |
| Intended use: | **for use in internal and external walls, wall claddings and ceilings in the buildings** |
| Manufacturer: | **TENAX PANEL, SIA**<br>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 Annexs 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, SIA Product development director

.....
Uldis Rekners
06.02.2019.

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## Declaration of Performance No 2S-S3X0-004, Annex 1
## Sandwich panels TENAX W50 PUR S1, TENAX W80 PUR S1

| Year when CE mark was affixed | 16 | |
|---|---|---|
| **Essential characteristics** [1] | **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$^3$ | 40 | |
| Thermal conductivity, W/m·K | 0,023 | |
| **Panel** | | |
| Thickness, mm | 50 | 80 |
| Panel weight, kg/m$^2$ (metal thickness 0,5/0,5 mm) | 10,7 | 11,9 |
| Shear modules of the core material, MPa | 3,8 | 3,5 |
| Shear strength of the panel, MPa | 0,12 | 0,10 |
| Long term shear strength, MPa | 0,05 | 0,05 |
| Creep coefficient | | |
| - $t$ = 2 000 h | 1,5 | 1,5 |
| - $t$ = 100 000 h | 3,0 | 3,0 |
| Compressive strength of the core material, MPa | 0,15 | 0,13 |
| Cross-panel tensile strength, MPa | 0,08 | 0,09 |
| Wrinkling stress for inner face | | |
| - in span | 110 | 110 |
| - for loads pressing at an internal support | 100 | 100 |
| Wrinkling stress for outer face, MPa | | |
| - in span | 140 | 140 |
| - in span at elevated temperature | 120 | 120 |
| - at an internal support | 120 | 120 |
| - at an internal support at elevated temperature | 100 | 100 |
| Thermal transmittance, W/m$^2$·K | 0,47 | 0,28 |
| Durability | Pass – all colours | Pass – all colours |
| Resistance to point loads | NPD | NPD |
| Resistance to access loads, kPa | Not pass | Not pass |
| Reaction to fire | NPD | NPD |
| Fire resistance | NPD | NPD |
| Water permeability | NPD | NPD |
| Air permeability | NPD | NPD |
| Airborne sound insulation | NPD | NPD |
| Sound absorption | NPD | NPD |

[1] Essential characteristics are given for cover width 1200 mm

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## Declaration of Performance No 2S-S3X0-004, Annex 2

## Sandwich panels TENAX W100 PUR T1, TENAX W120 PUR T1, TENAX W150 PUR T1, TENAX W175 PUR T1, TENAX W200 PUR T1, TENAX W220 PUR T1

| Year when CE mark was affixed | 16 | | | | | |
|---|---|---|---|---|---|---|
| **Essential characteristics** [1] | **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 | 175 | 200 | 220 |
| Panel weight, kg/m$^2$ (metal thickness 0,5/0,5 mm) | 12,6 | 13,4 | 14,6 | 15,6 | 16,5 | 17,3 |
| Shear modules of the core material, MPa | 3,3 | 3,1 | 2,6 | 2,5 | 2,5 | 2,0 |
| Shear strength of the panel, MPa | 0,10 | 0,10 | 0,08 | 0,08 | 0,075 | 0,07 |
| Long term shear strength, MPa | 0,05 | 0,05 | 0,05 | 0,04 | 0,04 | 0,035 |
| Creep coefficient | | | | | | |
| - $t$ = 2 000 h | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| - $t$ = 100 000 h | 3,0 | 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 | 0,11 |
| Cross-panel tensile strength, MPa | 0,09 | 0,10 | 0,08 | 0,07 | 0,07 | 0,06 |
| Wrinkling stress for inner face | | | | | | |
| - in span | 130 | 130 | 120 | 110 | 110 | 100 |
| - for loads pressing at an internal support | 120 | 120 | 110 | 90 | 90 | 80 |
| Wrinkling stress for outer face, MPa | | | | | | |
| - in span | 150 | 150 | 150 | 140 | 140 | 120 |
| - in span at elevated temperature | 135 | 135 | 135 | 120 | 120 | 100 |
| - at an internal support | 120 | 120 | 120 | 110 | 110 | 110 |
| - at an internal support at elevated temperature | 100 | 100 | 100 | 100 | 100 | 100 |
| Thermal transmittance, W/m$^2$·K | 0,23 | 0,19 | 0,15 | 0,13 | 0,11 | 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, kPa | Not pass | Not pass | Not pass | Not pass | Not pass | Not pass |
| Reaction to fire | NPD | NPD | NPD | NPD | NPD | NPD |
| Fire resistance | NPD | NPD | NPD | NPD | NPD | NPD |
| 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 |
| Sound absorption | NPD | NPD | NPD | NPD | NPD | NPD |

[1] Essential characteristics are given for cover width 1200 mm

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