

DECLARATION OF PERFORMANCE
No 1S-S5NS-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 W200 MW S Security**
TENAX W205 MW S Security
TENAX W210 MW S Security
TENAX W215 MW S Security
TENAX W220 MW S Security
TENAX W225 MW S Security
TENAX W230 MW S Security
TENAX W235 MW S Security
TENAX W240 MW S Security
TENAX W245 MW S Security
TENAX W250 MW S Security

Intended use: **for external walls/walls and ceilings also for external all claddings**

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


System/s of AVCP: **Scheme 1 (reaction to fire, fire resistance)**
Scheme 4

Harmonised standard: **EN 14509:2013**

Notified body/ies: **No 1325 - AS Inspecta Latvia, Skanstes Str. 54A, LV-1013, Riga, Latvia**

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 Reknars
19.02.2019.

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Attachment No 1 to Declaration of Performance No 1S-S5NS-002

Sandwich panels TENAX W200 MW S Security, TENAX W205 MW S Security, TENAX W210 MW S Security, TENAX W215 MW S Security, TENAX W220 MW S Security, TENAX W225 MW S Security, TENAX W230 MW S Security, TENAX W235 MW S Security, TENAX W240 MW S Security, TENAX W245 MW S Security, TENAX W250 MW S Security

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|--|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|
| Year when CE mark was affixed | 10 | | | | | | | | | | | |
| Essential characteristics | Performance | | | | | | | | | | | |
| Metal facings | | | | | | | | | | | | |
| Thickness, mm | 0,6; 0,7; 0,8 | | | | | | | | | | | |
| Steel name | S250GD; S280GD; S320GD | | | | | | | | | | | |
| Organic coating type and thickness | SP25; PVDF35 | | | | | | | | | | | |
| Core material | | | | | | | | | | | | |
| MW density, kg/m ³ | 110 | | | | | | | | | | | |
| Thermal conductivity, W/m·K | 0,042 | | | | | | | | | | | |
| Panel | | | | | | | | | | | | |
| Thickness, mm | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | |
| Panel weight, kg/m ² (metal thickness 0,6/0,8 mm) | 31,7 | 32,2 | 32,8 | 33,3 | 33,9 | 34,4 | 35,0 | 35,5 | 36,1 | 36,6 | 37,2 | |
| Shear modulus of the core material, MPa | 2,2 | 2,2 | 2,2 | 2,2 | 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 | 0,02 | 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 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | |
| - t = 100 000 h | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 | 0,6 | |
| 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 | 0,08 | 0,08 | 0,08 | 0,08 | 0,08 | 0,08 | 0,08 | 0,08 | 0,08 | 0,08 | 0,08 | |
| Wrinkling stress for inner face | | | | | | | | | | | | |
| - in span | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |
| - for loads pressing at an internal support | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | |
| Wrinkling stress for outer face, MPa | | | | | | | | | | | | |
| - in span | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |
| - in span at elevated temperature | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | |
| - for suction loads at an internal support | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | |
| - for suction loads at an internal support at elevated temperature | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | |
| Thermal transmittance, W/m ² ·K | 0,21 | 0,20 | 0,20 | 0,19 | 0,19 | 0,18 | 0,18 | 0,18 | 0,17 | 0,17 | 0,17 | |
| Durability | pass-all colours | pass-all colours | pass-all colours | pass-all colours | 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 | NPD | NPD | NPD | NPD | |
| Resistance to access loads, kPa | fail | fail | fail | fail | fail | fail | fail | fail | fail | fail | fail | |
| Reaction to fire | A2-s1,d0 | A2-s1,d0 | A2-s1,d0 | A2-s1,d0 | A2-s1,d0 | A2-s1,d0 | A2-s1,d0 | A2-s1,d0 | A2-s1,d0 | A2-s1,d0 | A2-s1,d0 | |
| Fire resistance | EI120 | EI120 | EI120 | EI120 | EI120 | EI120 | EI120 | EI120 | EI120 | EI120 | EI120 | |
| Water permeability | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | |
| Air permeability | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | |
| Airborne sound insulation | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | |
| Sound absorption | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | NPD | |