

DECLARATION OF PERFORMANCE

PNP 150 MG

1. UNIQUE IDENTIFICATION CODE
OF THE PRODUCT-TYPE:

XPS – EN 13164 – T1 – CS(10\Y)150 – WL(T)3
PNP 150 MG (30-150 mm)

2. INTENDED USE:

Thermal insulation for buildings (ThIB)

3. MANUFACTURER:

ORANGE TOWER SRL, str. A. Bernardazzi, 19, mun.
Ungheni, or. Ungheni, Republica Moldova

4. AUTHORIZED REPRESENTATIVE:

Not relevant

5. SYSTEM OF AVCP:

System 3

6. HARMONIZED STANDARD:

EN 13164:2012 + A1:2015

7. NOTIFIED BODY:

No. 1434: POLSKIE CENTRUM BADAN I
CERTYFIKACJI S.A. (Polish Centre for Testing
and Certification), Jakuba Wejhera str. 18a,
80-346, Gdańsk, Poland

8. DECLARED PERFORMANCE OF PNP 150 MG (30-150 mm)

| ESSENTIAL CHARACTERISTICS | | PERFORMANCE | HARMONIZED TECHNICAL SPECIFICATIONS |
|---|---|-----------------------------------|---|
| Reaction to fire | | Euroclass | F |
| Glowing combustion | | No harmonized methods defined yet | NPD |
| Dimensional tolerances | | Class | T1 |
| Thermal resistance and thermal conductivity | Declared thermal conductivity λ_D [W/m·K] | Nominal thickness d_N [mm] | Declared thermal resistance R_D [m ² ·K/W] |
| | 0,034 | 30 | 0,85 |
| | 0,034 | 40 | 1,15 |
| | 0,034 | 50 | 1,45 |
| | 0,034 | 60 | 1,75 |
| | 0,034 | 80 | 2,35 |
| | 0,034 | 100 | 2,90 |
| | 0,035 | 120 | 3,40 |
| 0,035 | 150 | 4,25 | |
| Compressive strength | Compressive strength or Compressive Stress at 10% deformation | CS(10Y) | CS(10Y)150 (≥150 kPa) |
| Compressive creep | Compressive creep after relative deformation 10 years on 2% | CC(2/1,8/10) | NPD |
| Tensile strength | Tensile strength perpendicular to faces | TR | NPD |
| Water permeability | Long term water absorption | WL(T) | WL(T)3 (≤ 3 [Vol.-%]) |
| | Long term water absorption by diffusion | WD(V) | NPD |
| Water vapour permeability | Water vapour diffusion resistance factor | MU | NPD |
| Durability of reaction to fire against heat, weathering, ageing/degradation | Reaction to fire of XPS products does not change with time | | |
| Durability of thermal resistance against heat, weathering, ageing/degradation/freeze thaw | Dimensional stability under specified conditions 70°C; 90% r.h. | DS | NPD |
| | Deformation under specified compressive load of 40 kPa and temperature conditions at 70°C | DLT | NPD |
| | Freeze-thaw resistance after long term water absorption by diffusion | FTCD | NPD |
| | Freeze-thaw resistance after long term water absorption by total immersion | FTCI | NPD |
| Dangerous substances | Release of dangerous substances to the indoor environment | – | – |

EN 13164:2012+A1:2015

NPD = No Performance Determined

9. The performance of the product identified above is in conformity with the set of declared performances. 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:
Vasily Deli, Director, ORANGE TOWER SRL
Republica Moldova, Ungheni, 02 May 2022

