

TECHNICAL DATA SHEET



PETRAROOF

Slabs of stone wool for thermal,
acoustic and fire insulation

OFFICIAL DOCUMENTATION:

Declaration of Performances:

No. PTRL-DoP/MW/15/19

No. PTRL-DoP/MW/15/05

No. PTRL-DoP/MW/15/20



1454-CPR-1021

APPLICATION:

insulation of non-ventilated roofs and flat
roofs by stone wool in a single or double layer

FACTORY:

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PRODUCT CODE

PETRAROOF MW-EN13162-T5-CS(10)50-PL(5)550-WS-MU1 (d=20-29 mm)
 PETRAROOF MW-EN13162-T5-DS(70,90)-CS(10)50-PL(5)550-WS-WL(P)-MU1 (d=30-150 mm)
 PETRAROOF MW-EN13162-T5-CS(10)50-PL(5)550-WS-MU1-AW0,95(d=151-190 mm)

DECLARED THERMAL CONDUCTIVITY COEFFICIENT λ_D

$\leq 0,037$ [W/mK]

DECLARED PARAMETERS

| DECLARED PROPERTIES OF THE PRODUCT ACC. TO EN 13162:2012+A1:2015 | SYMBOL | CLASS OR TOLERANCE | UNITS |
|---|-----------|--------------------------|-------------------------|
| Class for thickness tolerances | T | T5 | -1 mm / +3 mm |
| | | | -1 % / +3 mm |
| Dimensional stability under 70 °C and 90% humidity | DS(70,90) | $\leq 1,0$ (d=30-150 mm) | [%] |
| Compressive stress at 10% deformation | CS(10/Y) | CS(10)50 | [kPa] |
| Point load at 5mm deformation | PL(5) | | [N] |
| Short time water absorption | WS | $\geq 1,0$ | [kg/m ²] |
| Long time water absorption | WL(P) | $\leq 3,0$ (d=30-150 mm) | [kg/m ²] |
| Water vapour transmission | MU | MU1 | [-] |
| Sound absorption index | AW | 0,95(151-190mm) | [-] |
| Air flow resistivity | AFr | NPD | [kPa s/m ²] |
| Reaction to fire | RtF | A1 | Euroclass |

DECLARED THERMAL RESISTANCE R_D

| d [mm] | 30 | 40 | 50 | 60 | 80 | 100 | 120 | 150 | - | - | - | - | - | - | - | - |
|----------------------------|------|------|------|------|------|------|------|------|---|---|---|---|---|---|---|---|
| R_D [m ² K/W] | 0,80 | 1,05 | 1,35 | 1,60 | 2,15 | 2,70 | 3,20 | 4,05 | - | - | - | - | - | - | - | - |

DIMENSIONS AND PACKING

| FORMAT OF PLATES | | | PALLETS | | |
|------------------|-------|-----------|---------------------------|-------------------------------------|------------------------------|
| Length | Width | Thickness | No. of plates on a pallet | Cover surface of plates on a pallet | Volume of plates on a pallet |
| [mm] | [mm] | [mm] | [pcs.] | [m ²] | [m ³] |
| 2000 | 1200 | 30 | 40 | 96,00 | 2,880 |
| | | 40 | 30 | 72,00 | 2,880 |
| | | 50 | 24 | 57,60 | 2,880 |
| | | 60 | 20 | 48,00 | 2,880 |
| | | 80 | 15 | 36,00 | 2,880 |
| | | 100 | 12 | 28,80 | 2,880 |
| | | 120 | 10 | 24,00 | 2,880 |
| | | 150 | 8 | 19,20 | 2,880 |
| | | - | - | - | - |
| | | - | - | - | - |
| | | - | - | - | - |
| | | - | - | - | - |
| | | - | - | - | - |