

## 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)600-WS-MU1 (d=20-29 mm)  
 PETRAROOF MW-EN13162-T5-DS(70,90)-CS(10)50-PL(5)600-WS-WL(P)-MU1 (d=30-150 mm)  
 PETRAROOF MW-EN13162-T5-CS(10)50-PL(5)600WS-MU1 AW0,95 (d=151-190 mm)

## DECLARED THERMAL CONDUCTIVITY COEFFICIENT $\lambda_D$

$\leq 0,037$  [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 [mm]
			-1 % / +3 mm [%/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]
Tensile strength perpendicular to faces	TR	NPD	[kPa]
Point load at 5mm deformation	PL(5)	$\geq 600,0$	[N]
Short time water absorption	WS	$\leq 1,0$	[kg/m <sup>2</sup> ]
Long time water absorption	WL(P)	$\leq 3,0$ (d=30-150 mm)	[kg/m <sup>2</sup> ]
Water vapour transmission	MU	MU1	[-]
Acoustic absorption index	AW	0,95 (d=151-190 mm)	[-]
Reaction to fire	RtF	A1	A-F

## DECLARED THERMAL RESISTANCE $R_D$

d [mm]	30	40	50	60	80	100	120	150	-	-	-	-	-	-	-	-	-
$R_D$ [m <sup>2</sup> 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 <sup>2</sup> ]	[m <sup>3</sup> ]
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
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-