

TECHNICAL DATA SHEET

PETRAROOF PLUS



Slabs of stone wool for thermal,
acoustic and fire insulation

OFFICIAL DOCUMENTATION:

Declaration of Performances:
No. PTRL-DoP/MW/23/138
No. PTRL-DoP/MW/23/139
No. PTRL-DoP/MW/23/140



1454-CPR-1021

APPLICATION:

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

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PRODUCT CODE
PETRAROOF PLUS MW-EN13162-T5-CS(10)50-TR10-PL(5)550-WS-MU1 (d=20-29 mm) PETRAROOF PLUS MW-EN13162-T5-DS(70,90)-CS(10)50-TR10-PL(5)550-WS-WL(P)-MU1 (d=30-150 mm) PETRAROOF PLUS MW-EN13162-T5-CS(10)50-TR10-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=30-190 mm)	[%]
Compressive stress at 10% deformation	CS(10/Y)	50	[kPa]
Point load at 5mm deformation	PL(5)	$\geq 550,0$	[N]
Short time water absorption	WS	≤ 1	[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	RfF	A1	Euroclass
Tensile strength perpendicular to faces	TR	10	[kPa]

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
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-