

TECHNICAL DATA SHEET

PETRAROOF-D



Stone wool panels for thermal, acoustic and fire insulation – base layer for the double layer system

OFFICIAL DOCUMENTATION:

Declaration of Performances:
No. PTRL-DoP/MW/15/21
No. PTRL-DoP/MW/15/15
No. PTRL-DoP/MW/15/22



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-D MW-EN13162-T5-CS(10)40-PL(5)500-WS-MU1 (d=20mm-29mm) PETRAROOF-D MW-EN13162-T5-DS(70,90)-CS(10)40-PL(5)500-WS-WL(P)-MU1 (d=30mm-150mm) PETRAROOF-D MW-EN13162-T5-CS(10)40-PL(5)500-WS-MU1 (d=151mm-190mm)
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 [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)	40	[kPa]
Tensile strength perpendicular to faces	TR	NPD	[kPa]
Point load at 5mm deformation	PL(5)	$\geq 500,0$	[N]
Short time water absorption	WS	$\leq 1,0$	[kg/m ²]
Long time water absorption	WL(P)	$\leq 3,0$ (d=30-150 mm)	[kg/m ²]
Water vapour transmission	MU	MU1	[-]
Air flow resistivity	AFr	NPD	[kPa s/m ²]
Reaction to fire	RTF	A1	Euroclass

DECLARED THERMAL RESISTANCE R_D															
d [mm]	50	80	100	120	150	-	-	-	-	-	-	-	-	-	-
R_D [m ² K/W]	1,35	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	50	24	57,60	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
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-