

TECHNICAL DATA SHEET

PETRALIGHT-PLUS



Slabs of stone wool for thermal, acoustic and fire insulation of buildings

OFFICIAL DOCUMENTATION:

Declaration of Performances
No. PTRL-DoP/MW/15/87
No. PTRL-DoP/MW/15/88



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APPLICATION:

usable lofts
unusable lofts
ventilated flat roofs
suspended ceilings
partition walls
curtain walls with frame structures
floors between joists
frame structures including elevations
(cassettes, cavity walls, curtain walls, panels, sidings)
timber frame structures

PRODUCT CODE
PETRALIGHT-PLUS MW-EN13162-T2-CS(10)0,5-WS-WL(P)-MU1-AFr5 (d=40-99mm) PETRALIGHT-PLUS MW-EN13162-T2-CS(10)0,5-WS-WL(P)-MU1-AW0,95-AFr5 (d=100-250mm)
DECLARED THERMAL CONDUCTIVITY COEFFICIENT λ_D
$\leq 0,035$ [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	T2	-5 mm / +15 % [mm/%]
			-5 % / +15 mm [%/mm]
Sound Absorption Index	AW	0,95 (d=100-250mm)	[-]
Compressive stress at 10% deformation	CS(10/Y)	0,5	[kPa]
Tensile strength perpendicular to faces	TR	NPD	[kPa]
Point load at 5mm deformation	PL(5)	NPD	[N]
Short time water absorption	WS	$\leq 1,0$	[kg/m ²]
Long time water absorption	WL(P)	$\leq 3,0$	[kg/m ²]
Water vapour transmission	MU	MU1	[-]
Air flow resistivity	AFr	5	[kPa s/m ²]
Reaction to fire	RTF	A1	Euroclass

DECLARED THERMAL RESISTANCE R_D													
d [mm]	50	75	100	120	150	180	200	-	-	-	-	-	-
R_D [m ² K/W]	1,40	2,10	2,85	3,40	4,25	5,10	5,70	-	-	-	-	-	-

DIMENSIONS AND PACKING									
FORMAT OF PLATES			PACKAGES			PALLETS			
Length	Width	Thickness	No. of plates in a package	Cover surface of a package	Volume of a package	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]	[pcs.]	[m ²]	[m ³]	
1000	600	50	12	7,20	0,360	24	172,80	8,640	
		75	8	4,80	0,360	24	115,20	8,640	
		100	6	3,60	0,360	24	86,40	8,640	
		120	5	3,00	0,360	24	72,00	8,640	
		150	4	2,40	0,360	24	57,60	8,640	
		180	3	1,80	0,324	24	43,20	7,776	
		200	3	1,80	0,360	24	43,20	8,640	
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-