

TECHNICAL DATA SHEET

PETRALAMELA



Slabs of stone wool with lamella fibres for internal and external building objects for thermal, acoustic and fire insulation

OFFICIAL DOCUMENTATION:

Declaration of Performance:
No. PTRL-DoP/MW/15/30



1454-CPR-1021

APPLICATION:

external and internal walls insulated by ETICS system

external monolithic, prefabricated and brick walls

walls on the set of the arc

floors above garages, passages and basements

fire insulation of attics (reaction to fire classification A1)

FACTORY:

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PRODUCT CODE

PETRALAMELA MW-EN13162-T5-DS(70,90)-CS(10)50-TR80-WS-WL(P)-MU1

DECLARED THERMAL CONDUCTIVITY COEFFICIENT λ_D

$\leq 0,040$ [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)	$\leq 1,0$	%
Compressive stress at 10% deformation	CS(10)	CS(10)50	[kPa]
Tensile strength perpendicular to faces	TR	$\geq 80,0$	[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	NPD	[kPa s/m ²]
Reaction to fire	RfF	A1	Euroclass

DECLARED THERMAL RESISTANCE R_D

d [mm]	50	80	100	120	140	150	160	180	200	220	240	250	300	350	-	-	-
R_D [m ² K/W]	1,25	2,00	2,50	3,00	3,50	3,75	4,00	4,50	5,00	5,50	6,00	6,25	7,50	8,75	-	-	-

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]
1200	200	50	8	1,92	0,096	30	57,60	2,880
		80	6	1,44	0,115	25	36,00	2,880
		100	4	0,96	0,096	30	28,80	2,880
		120	4	0,96	0,115	25	24,00	2,880
		140	4	0,96	0,134	20	19,20	2,688
		150	4	0,96	0,144	20	19,20	2,880
		160	4	0,96	0,154	15	14,40	2,304
		180	4	0,96	0,173	15	14,40	2,592
		200	4	0,96	0,192	15	14,40	2,688
		220	4	0,96	0,211	10	9,60	2,112
		240	4	0,96	0,230	10	9,60	2,304
		250	4	0,96	0,240	10	9,60	2,400
		300	2	0,48	0,144	20	9,60	2,880
350	2	0,48	0,168	15	7,20	2,520		