

## TECHNICAL DATA SHEET



# PETRAFAS

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

### OFFICIAL DOCUMENTATION:

Declaration of Performance:  
No. PTRL-DoP/MW/15/03  
No. PTRL-DoP/MW/15/17  
No. PTRL-DoP/MW/15/16



### APPLICATION:

external and partition walls insulated by ETICS system

external monolithic, prefabricated and brick walls

floors above garages, passages and basements

fire insulation of attics (reaction to fire classification A1)

### FACTORY:

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## PRODUCT CODE

PETRAFAS MW-EN13162-T5-DS(70,90)-CS(10)20-TR10-WS-WL(P)-MU1 (d=30-99 mm)  
 PETRAFAS MW-EN13162-T5-DS(70,90)-CS(10)30-TR10-WS-WL(P)-MU1 (d=100-220 mm)  
 PETRAFAS MW-EN13162-T5-DS(70,90)-CS(10)20-TR10-WS-WL(P)-MU1 (d=221-250 mm)

## DECLARED THERMAL CONDUCTIVITY COEFFICIENT $\lambda_D$

$\leq 0,035$  [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	T5	-1 mm / +3 mm
			-1 % / +3 mm
Dimensional stability under 70 °C and 90% humidity	DS(70,90)	$\leq 1,0$	%
Compressive stress at 10% deformation	CS(10/Y)	CS(10)20 (d=30-99 mm) CS(10)30 (d=100-220 mm) CS(10)20 (d=221-250 mm)	[kPa]
Tensile strength perpendicular to faces	TR	$\geq 10,0$	[kPa]
Point load at 5mm deformation	PL(5)	NPD	[N]
Short time water absorption	WS	$\leq 1,0$	[kg/m <sup>2</sup> ]
Long time water absorption	WL(P)	$\leq 3,0$	[kg/m <sup>2</sup> ]
Water vapour transmission	MU	MU1	[-]
Air flow resistivity	AFr	NPD	[kPa s/m <sup>2</sup> ]
Reaction to fire	RtF	A1	Euroclass

## DECLARED THERMAL RESISTANCE $R_D$

d [mm]	50	60	80	100	120	140	150	160	180	200	220	240	250	-	-	-	-
$R_D$ [m <sup>2</sup> K/W]	1,40	1,70	2,25	2,85	3,40	4,00	4,25	4,55	5,10	5,70	6,25	6,85	7,10	-	-	-	-

## 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 <sup>2</sup> ]	[m <sup>3</sup> ]	[pcs.]	[m <sup>2</sup> ]	[m <sup>3</sup> ]
1000	600	50	6	3,60	0,180	16	57,60	2,880
		60	5	3,00	0,180	16	48,00	2,880
		80	5	3,00	0,240	20	60,00	4,800
		100	3	1,80	0,180	16	28,80	2,880
		120	2	1,20	0,144	20	24,00	2,880
		140	2	1,20	0,168	16	19,20	2,688
		150	2	1,20	0,180	16	19,20	2,880
		160	2	1,20	0,192	12+16	33,60	5,376
		180	2	1,20	0,216	12	14,40	2,592
		200	2	1,20	0,240	12	14,40	2,880
		220	1	0,60	0,132	20	12,00	2,640
		240	1	0,60	0,144	20	12,00	2,880
		250	1	0,60	0,150	16	9,60	2,400
-	-	-	-	-	-	-	-	-