

# ISOFAS-P

## MINERAL WOOL SLABS

### DESCRIPTION

Mineral wool slabs ISOFAS-P are marked with the code in accordance to PN-EN 13162 MW-EN 13162-T3-DS(TH)-TR10-CS(10)20-WS-MU1-WL(P) (ISOFAS-P d=20÷49 mm)  
MW-EN 13162-T4-DS(TH)-TR15-CS(10)40-WS-MU1-WL(P) (ISOFAS-P d=50÷99 mm)  
MW-EN 13162-T4-DS(TH)-TR15-CS(10)50-WS-MU1-WL(P) (ISOFAS-P d=100÷200 mm)

Mineral wool slabs as natural non-organic product is obtained as a result of melting rocks - basalt, gabbro.  
They assure perfect thermal and acoustic insulation as well as high fire protection.  
Available slabs dimensions: 1000x600 [mm].  
\* Different dimensions can be produced upon customer request.



### PRODUCT APPLICATION

For thermal, acoustic and fire insulation of:  
- external walls insulated by „light-weight“ method in so called seamless thermal insulation system (ETICS),  
- to expansion joint,  
- as an acoustic insulation in acoustic screens.

Rigid mineral wool slabs ISOFAS-P, should be stored in original packing till its application.  
Product should be stored in the way which protects them against moisture and precipitation.

Declared thermal resistance  $R_0$  for respective thicknesses of the product

Thickness [mm]										
20	30	40	50	60	80	100	110	120	140	150
Thermal conductivity $R_0$ [m <sup>2</sup> K/W]										
0,50	0,75	1,05	1,30	1,55	2,10	2,60	2,85	3,15	3,65	3,90

### DIMENSIONS AND PACKAGING

Thickness of plates	Format of plates		No. of plates in a package	Cover surface of one package	Volume of the package	No. of packages on a pallet	Cover surface of plates on the pallet	Volume of plates on the pallet
	Length	Width						
[mm]	[mm]	[mm]	[pcs]	[m <sup>2</sup> ]	[m <sup>3</sup> ]	[pcs]	[m <sup>2</sup> ]	[m <sup>3</sup> ]
20	1000	600	15	9,00	0,180	12+16	252,00	5,040
30			10	6,00	0,180	12+16	168,00	5,040
40			6	3,60	0,144	12+20	129,60	5,184
50			6	3,60	0,180	16	57,60	2,880
60			5	3,00	0,180	16	48,00	2,880
80			3	1,80	0,144	20	36,00	2,880
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



## TECHNICAL DATA

Types of plates		ISOFAS-P						
		Thickness						
		50-99 mm		20 - 49 mm		100-200 mm		
Product code (indicates declared levels or classes of product properties)		MW-EN 13162-T4-DS(TH)-CS(10)40-TR15-WS-MU1-WL(P)		MW-EN 13162-T3-DS(TH)-CS(10)20-TR10-WS-MU1-WL(P)		MW-EN 13162-T4-DS(TH)-CS(10)50-TR10-WS-MU1-WL(P)		
Declared properties of the product acc. to PN-EN 13162	Method of testing	Unit of measurement	Levels or tolerances					
			Codes of classes or levels	Values	Codes of classes or levels	Values	Codes of classes or levels	Values
Length (class of dimensional tolerance)	PN-EN 822	[%]	[-]	± 2	[-]	± 2	[-]	± 2
Width (class of dimensional tolerance)		[%]	[-]	± 1,5	[-]	± 1,5	[-]	± 1,5
Thickness (class of dimensional tolerance)	PN-EN 823	<100 mm [mm/%]	T4	- 3mm / + 5%	T3	- 3mm / + 10%	T4	-
		≥100 mm [%/mm]		-		-		-3% / +5 mm
Rectangularity $S_p$	PN-EN 824	[mm/m]	[-]	≤ 5	[-]	≤ 5	[-]	≤ 5
Flatness $S_{max}$	PN-EN 825	[mm]	[-]	≤ 6	[-]	≤ 6	[-]	≤ 6
Dimensional stability in specified conditions of temperature and relative humidity	PN-EN 1604	[%]	DS(TH)	± 1,0 (change of thickness, length and width)	DS(TH)	± 1,0 (change of thickness, length and width)	DS(TH)	± 1,0 (change of thickness, length and width)
		[mm/m]		± 1 (change of flatness)		± 1 (change of flatness)		± 1 (change of flatness)
Tensile strength perpendicular to faces	PN-EN 1607	[kPa]	TR15	≥ 15	TR10	≥ 10	TR15	≥ 15
Compressive stress at 10% deformation	PN-EN 826	[kPa]	CS(10)40	≥ 40	CS(10)20	≥ 20	CS(10)50	≥ 50
The level of short-term water absorption	PN-EN 1609	[kg/m <sup>2</sup> ]	WS	≤ 1,0	WS	≤ 1,0	WS	≤ 1,0
The value of the diffusion resistance of vapour	PN-EN 12086	[-]	MU1	≤ 1	MU1	≤ 1	MU1	≤ 1
The level of long-term water absorption at partial immersion	PN-EN 12087	[kg/m <sup>2</sup> ]	WL(P)	≤ 3,0	WL(P)	≤ 3,0	WL(P)	≤ 3,0
Thermal conductivity coefficient $\lambda_p$	PN-EN 12667	[W/mK]	[-]	≤ 0,038	[-]	≤ 0,038	[-]	≤ 0,038
Reaction to fire	PN-EN 13501-1	A to F	Euroclass	A1	Euroclass	A1	Euroclass	A1
Apparent density	PN-EN 1602	[kg/m <sup>3</sup> ]	[-]	130	[-]	130	[-]	130

## OFFICIAL DOCUMENTATION

Certificate of Conformity EC No. 1434-CPR-0166

Declaration of Performance No. 05a/2013 in accordance to standard PN-EN 13162 (ISOFAS-P d=20÷49 mm)

Declaration of Performance No. 05/2013 in accordance to standard PN-EN 13162 (ISOFAS-P d=50÷99 mm)

Declaration of Performance No. 05b/2013 in accordance to standard PN-EN 13162 (ISOFAS-P d=100÷200 mm)

Certificate of Hygiene No. HK/B/0146/01/2011



# ISOFAS-P

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