

# ISOROOF

MINERAL WOOL SLABS

## DESCRIPTION

Mineral wool slabs ISOROOF marked with the code in accordance with PN-EN 13162 MW-EN 13162-T3-DS(TH)-TR7,5-PL(5)400-WS-CS(10)50-MU1-WL(P) (d=50-99 mm) MW-EN 13162-T3-DS(TH)-TR7,5-PL(5)400-WS-CS(10)60-MU1-WL(P) (d=100-150 mm)

Mineral wool slabs as a natural non-organic product are obtained as a result of melting rocks - basalt, gabbro. They assure perfect thermal and acoustic insulation as well as high fire protection. Available slab dimensions: 1000x600 and 2000x1200 [mm].

\* Different dimensions can be produced upon customer request.



## PRODUCT APPLICATION

For thermal, acoustic and fire insulation of:

- non-ventilated flat roofing in steel or concrete constructions in one-layer system ISODACH MONO,
- floors under concrete,
- as an acoustic insulation in acoustic screens.

Very rigid mineral wool slabs ISOROOF 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  $R_D$  for respective thicknesses of the product

Thickness [mm]						
50	60	80	100	120	140	150
Thermal conductivity $R_D$ [m <sup>2</sup> K/W]						
1,25	1,50	2,05	2,55	3,05	3,55	3,80

## 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	Number of plates 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]	[pcs]	[m <sup>2</sup> ]	[m <sup>3</sup> ]
50	1000	600	6	3,60	0,180	16	24	57,60	2,880
	2000	1200							
60	1000	600	5	3,00	0,180	16	20	48,00	2,880
	2000	1200							
80	1000	600	3	1,80	0,144	20	15	36,00	2,880
	2000	1200							
100	1000	600	3	1,80	0,180	16	12	28,80	2,880
	2000	1200							
120	1000	600	2	1,20	0,144	20	10	24,00	2,880
	2000	1200							
140	1000	600	2	1,20	0,168	16	8	19,20	2,688
	2000	1200							
150	1000	600	2	1,20	0,180	16	8	19,20	2,880
	2000	1200							



## TECHNICAL DATA

Types of plates		ISOROOF				
Product code (indicates declared levels or classes of product properties)		MW-EN 13162-T3-DS(TH)-TR7,5-PL(5)400-WS-CS(10)50-MU1-WL(P)		MW-EN 13162-T3-DS(TH)-TR7,5-PL(5)400-WS-CS(10)60-MU1-WL(P)		
		50-99 mm		100-150 mm		
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
Length (class of dimensional tolerance)	PN-EN 822	[%]	[-]	± 2	[-]	± 2
Width (class of dimensional tolerance)		[%]	[-]	± 1,5	[-]	± 1,5
Thickness (class of dimensional tolerance)	PN-EN 823	[mm/%]	T3	- 3mm / + 10%	T3	-
		[%/mm]		-		- 3% / + 10mm
Rectangularity $S_b$	PN-EN 824	[mm/m]	[-]	≤ 5	[-]	≤ 5
Flatness $S_{max}$	PN-EN 825	[mm]	[-]	≤ 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)
		[mm/m]		± 1 (change of flatness)		± 1 (change of flatness)
Tensile strength perpendicular to faces	PN-EN 1607	[kPa]	TR7,5	≥ 7,5	TR7,5	≥ 7,5
The level of point load at 5mm deformation	EN 12430	[N]	PL(5)400	≥ 400	PL(5)400	≥ 400
The level of short-term water absorption	PN-EN 1609	[kg/m <sup>2</sup> ]	WS	≤ 1,0	WS	≤ 1,0
Compressive stress at 10% deformation	PN-EN 826	[kPa]	CS(10)50	≥ 50	CS(10)60	≥ 60
The value of the diffusion resistance of vapour	PN-EN 12086	[-]	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
Thermal conductivity coefficient $\lambda_D$	PN-EN 12667	[W/mK]	[-]	≤ 0,039	[-]	≤ 0,039
Reaction to fire	PN-EN 13501-1	A to F	Euroclass	A1	Euroclass	A1

  

Apparent density	PN-EN 1602	[kg/m <sup>3</sup> ]	[-]	150
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## OFFICIAL DOCUMENTATION

Certificate of Conformity EC NR 1434-CPR-0166

Declaration of Performance No. 08/2013 in accordance to standard PN-EN 13162

Declaration of Performance No. 08a/2013 in accordance to standard PN-EN 13162

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



# ISOROOF

ISOROC POLSKA S.A.  
ul. Leśna 30, 13-100 Nidzica  
phone: (+48 89) 625 03 01  
fax: (+48 89) 625 03 02  
e-mail: nidzica@isoroc.pl

CUSTOMER SERVICE DEPARTMENT  
ul. Leśna 30, 13-100 Nidzica  
phone: (+48 89) 625 03 11  
phone: (+48 89) 625 03 13  
fax (+48 89) 625 03 19  
e-mail: export@isoroc.pl