

# ISOPANEL-D

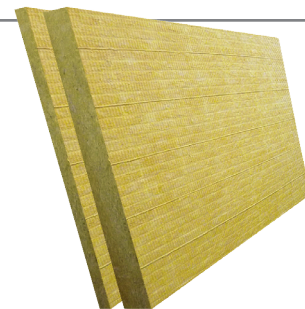
MINERAL WOOL SLABS

## DESCRIPTION

Mineral wool slabs ISOPANEL-D marked with the code in accordance to PN-EN 13162 MW-EN 13162-T4-DS(TH)-TR10-PL(5)250-WS-CS(10)30-MU1-WL(P)

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: 2000x1200 [mm].

\* Different dimensions can be produced upon customer request.



## PRODUCT APPLICATION

For thermal, acoustic and fire insulation of:

- non-ventilated flat roofs with concrete or steel structure as base layer in two-layer ISODACH insulation system together with a top layer ISOROOF-T.

Rigid mineral wool slabs ISOPANEL-D, 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]						
1,35	1,65	2,20	2,75	3,30	3,85	4,15

## DIMENSIONS AND PACKAGING

Thickness of plates	Format of plates		No. of plates in a package	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> ]
50	2000	1200	24	57,60	2,880
60	2000	1200	20	48,00	2,880
80	2000	1200	15	36,00	2,880
110	2000	1200	11	26,40	2,904
120	2000	1200	10	24,00	2,880
160	2000	1200	2	16,80	2,688



# ISOPANEL-D

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TECHNICAL DATA

Types of plates		ISOPANEL-D			
Product code (indicates declared levels or classes of product properties)		MW-EN 13162-T4-DS(TH)-TR10-PL(5)250-WS-CS(10)30-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	
Length (class of dimensional tolerance)	PN-EN 822	[%]	[-]	± 2	
Width (class of dimensional tolerance)		[%]	[-]	± 1,5	
Thickness (class of dimensional tolerance)	PN-EN 823	<100 mm [mm/%]	T4	- 3mm / + 5%	
		≥100 mm [%/mm]		- 3% / + 5mm	
Rectangularity $S_b$	PN-EN 824	[mm/m]	[-]	≤ 5	
Flatness $S_{max}$	PN-EN 825	[mm]	[-]	≤ 6	
Dimensional stability in specified conditions of temperature and relative humidity	PN-EN 1604	[%]	DS(TH)	± 1,0 (change of thickness, length and width)	
		[mm/m]		± 1 (change of flatness)	
Tensile strength perpendicular to faces	PN-EN 1607	[kPa]	TR10	≥ 10	
The level of point load at 5mm deformation	EN 12430	[N]	PL(5)250	≥ 250	
The level of short-term water absorption	PN-EN 1609	[kg/m <sup>2</sup> ]	WS	≤ 1,0	
Compressive stress at 10% deformation	PN-EN 826	[kPa]	CS(10)30	≥ 30	
The value of the diffusion resistance of vapour	PN-EN 12086	[-]	MU1	≤ 1	
The level of long-term water absorption at partial immersion	PN-EN 12087	[kg/m <sup>2</sup> ]	WL(P)	≤ 3,0	
Thermal conductivity coefficient $\lambda_p$	PN-EN 12667	[W/mK]	[-]	≤ 0,036	
Reaction to fire	PN-EN 13501-1	A to F	Euroclass	A1	
Apparent density		PN-EN 1602	[kg/m <sup>3</sup> ]	[-]	110

OFFICIAL DOCUMENTATION

Certificate of Conformity EC NR 1434-CPR-0166  
Declaration of Performance No. 06b/2013 in accordance to standard PN-EN 13162  
Certificate of Hygiene No. HK/B/0146/01/2011



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