

# ISOLIGHT

## MINERAL WOOL SLABS



### DESCRIPTION

Mineral wool slabs ISOLIGHT are marked with the code in accordance to PN-EN 13162 MW-EN 13162-T4-DS(TH)-CS(10)0,5-WS-MU1-WL(P)

Mineral wool slabs as natural non-organic product is obtained as a result of melting rocks - basalt, gabbro. They assure excellent thermal and acoustic insulation as well as high fire protection. Available slabs dimensions: 1000x500 mm.

\* Different dimensions can be produced upon customer request.

### PRODUCT APPLICATION

For thermal, acoustic and fire insulation:

- of attics, between rafters,
- of floors between joists,
- ceilings cladded from bottom (suspended ceilings),
- in internal structures of partition walls,
- in cavity walls with ventilated or non-ventilated air gap,
- for filling out of wooden or steel frame structures,
- in ventilated flat roofs.

Light mineral wool slabs ISOLIGHT 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	150	200
Thermal resistance $R_D$ [m <sup>2</sup> K/W]					
1,35	1,60	2,15	2,70	4,05	5,40

### DIMENSIONS AND PACKAGING

Thickness of slabs	Slabs dimensions		No. of slabs in a package	Surface covered by package	Package volume	No. of packages on a pallet	Surface covered by pallet	Mineral wool volume on a pallet
	Length	Width						
[mm]	[mm]	[mm]	[pcs]	[m <sup>2</sup> ]	[m <sup>3</sup> ]	[pcs]	[m <sup>2</sup> ]	[m <sup>3</sup> ]
50	1000	500	12	6,00	0,30	20	120	6,00
75			8	4,00			80	
100			6	3,00			60	
150			4	2,00			40	
200			3	1,50			30	



## TECHNICAL DATA

Slabs type		ISOLIGHT MW-EN 13162-T4-DS(TH)-CS(10)0,5-WS-MU1-WL(P)		
Declared properties of the product acc. to EN 13162	Test method	Unit of measurement	Levels or tolerances	
			Classes or levels codes	Values
Length (class of dimensional tolerance)	EN 822	[%]	[-]	± 2
Width (class of dimensional tolerance)		[%]	[-]	± 1,5
Thickness (class of dimensional tolerance)	EN 823	<100 mm [mm/%]	T4	-3mm / + 5%
		≥100 mm [%/mm]		- 3% / + 5mm
Dimensional stability under specified temperature and relative humidity conditions	EN 1604	[%]	DS(TH)	± 1,0 (change of thickness, length and width)
		[mm/m]		± 1 (change of flatness)
Compressive stress at 10% deformation	EN 826	[kPa]	CS(10)0,5	≥ 0,5
Short term water absorption	EN 1609	[kg/m <sup>2</sup> ]	WS	≤ 1,0
Water vapour diffusion resistance factor	EN 12086	[-]	MU1	≤ 1
Long term water absorption by partial immersion	EN 12087	[kg/m <sup>2</sup> ]	WL(P)	≤ 3,0
Thermal conductivity λ <sub>b</sub>	EN 12667	[W/mK]	[-]	≤ 0,037
Reaction to fire	EN 13501-1	A to F	Euroclass	A1
Apparent density	EN 1602	[kg/m <sup>3</sup> ]	[-]	35

## OFFICIAL DOCUMENTATION

Certificate of Conformity EC No. 1434-CPR-0166

Declaration of Performance No. 01/2015 in accordance to standard PN-EN 13162

Certificate of Hygiene No. HK/B/0146/01/2011 Short term water absorption



# ISOLIGHT

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