

### General description

"Sandwich" type basalt mineral wool heat insulation panels apply to any type of roof bearing structure. They are mainly used for roofs and walls of buildings which require fireproof and soundproof special resistance

They are used for external and internal walls and for construction of roofs and ceilings of residential buildings, industrial buildings, commercial buildings, farms, office buildings, warehouses, production facilities and other special buildings.

Mineral wool filling is known for its high fireproof resistance, noise absorption capacities and heat insulating properties. As a difference from simple installation of the mineral wool insulation under the roof, assembly of mineral wool insulating panels ensure 2.5 higher heat protection.

### Production Specifications

- basalt mineral wool wall panels BILKA are manufactured in two options: with concealed fastening offering a special esthetic aspect and with visible fastening.
- basalt mineral wool wall panels BILKA are manufactured in two options: with 3 corrugations and with 5 corrugations.
- the panel thickness varies from 50 to 100 mm, based on the intended purpose.
- the thickness of the exterior layers of steel varies from 0.5 to 0.6 mm.
- the exterior layers of steel can be produced in various color options.
- the standard length of the panel ranges from 2.5 and 12 m. Execution of the panels with different lengths from the standard ones will be made after prior consultation with the technical specialist from BILKA.

### Advantages

- fire propagation resistance and flame resistant
- quick and easy assembly
- good soundproof and heatproof properties
- long endurance
- it has no negative effects on the environment, basalt mineral wool is a fully natural and recoverable material

## 1. Mineral wool roof panels

Panel thickness	Thickness exterior layer	Weight	U		Distance between supports in m																
					One opening								Multiple openings								
mm	mm	Kg/sqm	w/sqmK		1,5	2	2,5	3	3,5	4	4,5	5	1,5	2	2,5	3	3,5	4	4,5	5	5,5
			EN 14509	EN ISO 6946	Maximum evenly distributed loading in kg/sqm steel																
50	0,6/0,5	15,85	0,81	0,70	198	140	105	85	63	-	-	-	233	165	125	102	80	62	-	-	-
80	0,6/0,5	18,85	0,52	0,47	267	198	160	130	109	88	65	-	306	230	185	152	130	110	90	70	-
100	0,6/0,5	20,85	0,42	0,38	285	211	168	140	118	102	88	73	320	246	196	162	136	118	105	90	79

### 2. Mineral wool wall panel

Panel thickness	REI	Thickness exterior layer	Weight	U		Distance between supports in m																			
						One opening										Multiple openings									
mm		mm	Kg/sqm	w/sqmK		2	2,5	3	3,5	4	4,5	5	5,5	2	2,5	3	3,5	4	4,5	5	5,5	65,5			
				EN 14509	EN ISO 6946	Maximum evenly distributed loading in kg/sqm steel																			
50	15	0,6/0,5	15,40	0,78	0,76	98	78	66	52	-	-	-	-	109	87	73	62	49	-	-	-	-			
80	60	0,6/0,5	18,40	0,50	0,49	156	127	105	80	61	49	-	-	168	141	107	100	77	60	50	40	-			
100	120	0,6/0,5	20,40	0,41	0,40	183	157	131	101	77	60	49	40	193	170	147	124	96	76	61	52	43			

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