



400 BIO

Silica sand, also known as silicon dioxide (SiO_2), is a compound that is in the form of free quartz or a combination of silicates that is found in nature in high quantities and widely used in many industries. Biowool is an insulation material obtained by melting the locally supplied silica sand at about 1250°C and transforming it into fibers. Biowool does not undergo dimensional deformations such as swelling, blistering or shrinkage even when subjected to heat and humidity. Its water vapour diffusion resistance factor $\mu = 1$ and its declared thermal conductivity is $0,031 \leq \lambda \leq 0,044 \text{ W/mK}$. (at 10°C).

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Biowool provides maximum insulation by preventing you from problems such as deterioration, decay, mold retention, corrosion and rusting. Insects and microorganisms can not harm Ravaber Biowool products. Depending on the product type, the temperature of use is in the range of -50 /+250°C. Noncohesive Biowool products can be used up to 500 °C. Biowool products are classified as "A1" group noncombustible materials and are used in the range of -20 + 400 °C according to the application area. Ravaber, the only manufacturer that can produce all mineralwool insulation materials under the same roof, offers a wide range of products

with new Biowool according to various application areas. With the usage of international patented phenol formaldehyde free binder, the fibers are stable and standard. Biowool products are nature-friendly, non-itching and do not create dust.

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TECHNICAL DATA SHEET

15.01.2019/003

TYPE	BIO 400 ROOF MAT			EN STANDARD				TS EN 13162
	PROPERTIES	SYMBOL	UNIT	TOLERANCE				STANDARD
Material	MW			Mineral Wool (Biowool)				TS EN 13162
Thickness	dN	mm		80	100	120	140	TS EN 823
Width	b	cm		120	120	120	120	TS EN 822
Length	l	cm		1000	800	600	600	TS EN 822
Organic Content	%	%		4,5				TS EN 13820
Average fiber diameter	mm - μ)	micron		5				
Declared Thermal Conductivity (10 °C)	λ _{ort}	W/mK		0,044				TS EN 12667
Thermal Resistance	RD	m²K/W		2	2,5	3	3,5	TS EN 12667
Average breaking strength	kPa			10				ISO 10635
Reaction to fire		°C		A1				TS EN 13501-1
Max. Usage Temperature				250				
Facing	Without Facing							
Compression Ratio	4.5/1							
Product feature and application: It is used in insulation of roofs and laying on floor.								

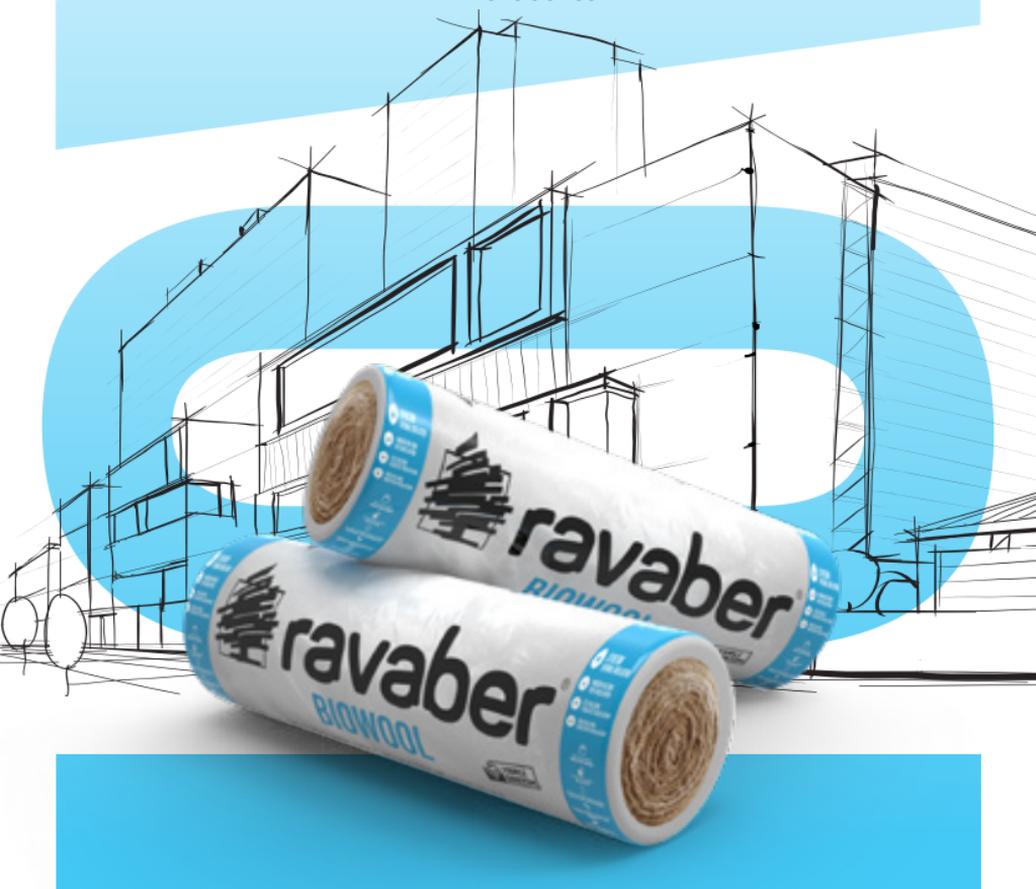




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TECHNICAL DATA SHEET

15.01.2019/003

TYPE	BIO 350 ROOF MAT			EN STANDARD						TS EN 13162
PROPERTIES	SYMBOL	UNIT	TOLERANCE							STANDARD
Material	MW			Mineral Wool (Biowool)						TS EN 13162
Thickness	dN	mm		80	100	120	140	160	180	TS EN 823
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Length	l	cm		1000	800	600	600	500	500	TS EN 822
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