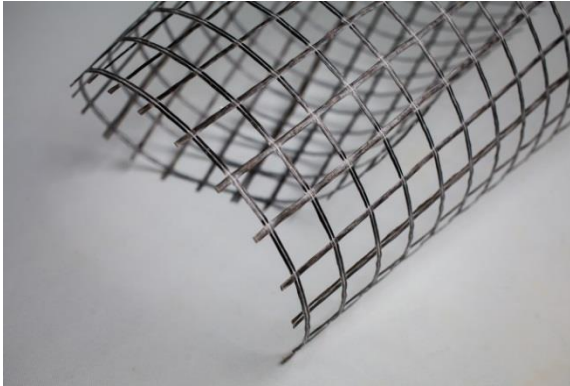


Technical Data Sheet BENSTEN K basalt masonry grid

Reinforcement of brickwork, foundations, for indoors water-proofing



BENSTEN K basalt masonry grid is a flat rolled reticulate material comprising elastic ribs of high-tensile basalt yarns bound together with a knitting yarn at the nodes to form rectangular mesh. The grid is impregnated with special agents to improve its properties and enhance its stability. Mesh size depends on intended purpose of a grid.

Typical application: BENSTEN K masonry grid is intended:

- for reinforcement of horizontal brickwork joints in order to increase their load-bearing capacity and integrity during construction (in new construction), as well as during repair, reinforcement or renovation of residential and municipal buildings which consist of various wall materials (calcium-silicate or ceramic bricks, foam concrete blocks, breeze blocks)
- for reinforcement of clay block walling systems with a hollowness exceeding 30% in order to save grout in mortar joints and ensure regulatory level of thermal conductivity of masonry walls
- as binding elements in multilayer brickworks while binding a layer of brick veneer with a main inner wall of various wall materials
- for reinforcement of foundations and floor cement screeds
- as reinforcement of waterproof finish in accommodation buildings (underground floors, swimming pools)

Advantages:

- Cheaper than metal mesh at equal tensile properties
- Basalt grids are easy to handle: the grids are lighter, space-saving, cause no injuries to hands, subject to high-level adherence to walls, cuttable to rolls of required width, effortlessly cuttable to required dimensions
- Not decayable, abrasion-resistant, resistant to rust, aggressive media which include alkali
- Dielectric – would not conduct electricity
- Thermally stable, absence of cold bridge effect
- Decreased masonry joint as compared to metal meshes.

Designation BENSTEN K 50/50-25 (100)

- BENSTEN K – designation of brand;
- 50/50 – designation of longitudinal/transverse tensile strength, kN/m;
- 25 – designation of mesh size, a × b, mm;
- 0.36 – designation of width of rolled materials, m;
- 0.36 – designation of length of rolled materials, m.

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Physical and mechanical properties

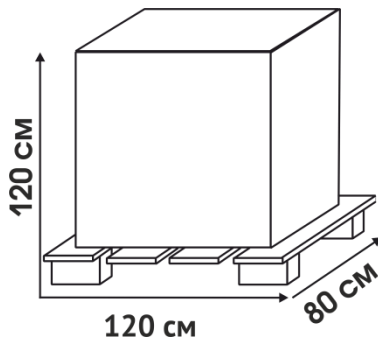
Property	Unit	BENSTEN K 25/25-50	BENSTEN K 50/50-25	BENSTEN K 100/100-25	Testing method
Type of fiber		basalt			
Color		dark brown			
Surface weight	g/m ²	120 (+20%/-15%)	200 (+20%/-15%)	450 (+20%/-15%)	GOST 6943.16
Mesh size	mm	50x50±2	25x25±2 50x50±2	25x25±2 50x50±2	TY23.99.19-035- 00205009-2017
Tensile strength, longitudinal	kN/m	≥25	≥50	≥100	GOST 34275- 2017 (EN 13496:2013)
Tensile strength, transverse	kN/m	≥25	≥50	≥100	GOST 34275- 2017 (EN 13496:2013)
Relative elongation, longitudinal	%	≤4	≤4	≤4	GOST 34275- 2017 (EN 13496:2013)
Relative elongation, transverse	%	≤4	≤4	≤4	GOST 34275- 2017 (EN 13496:2013)
Impregnation		Transparent, polymer dispersion			
Width of a roll	cm	100±2%	25/36/50/100±2%	100±2%	GOST 6943.16
Length of a roll	m	50±5%	20/50±5%	50±5%	GOST 6943.16
Diameter of a roll	cm	18	15/18	24	
Weight of a roll including core pipe, 50 running meters	kg	7	3,1/4,62/6,2/12,5*	24	
Weight of a roll including core pipe, 20 running meters	kg	--	1,15/1,7/2,3/4,6*		

*-depends on width of a roll 25/36/50/100±2% cm

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Manufacture of the material with other physical and mechanical properties is accepted upon agreeing about with a consumer.



Packaging:

The grid is supplied in 50 m rolls. Rolls of the grid are wrapped in polyethylene film and placed vertically in cardboard boxes. As much as 1500m² (30 rolls) can be placed on a single pallet.

Rolls of basalt mesh per pallet			
Nº	item	m ²	quantity of rolls
1	50/50-25 (1x20)	1100	55 шт.
2	50/50-25 (0,25x50)	1700	136 шт.
3	50/50-25 (0,25x20)	1400	230 шт.
4	50/50-25 (0,36x20)	1512	210 шт.
5	50/50-25 (0,36x50)	1836	102 шт.
6	50/50-25 (0,5x50)	1500	60 шт.
7	50/50-25 (1x50)	1500	30 шт.

Storage: store packed rolls vertically, max 3 pallets stacked, under a shelter or in a warehouse. Keep away from moisture, direct sunlight, atmospheric precipitation, and observe precautions against mechanical damage

Certificates:

- ✓ Certificate of conformity of the factory production control № 1488-CPR-0481/Z

Regulatory documents:

- Technical specification TU 23.99.19-035-00205009-2017
- State standard GOST R 57265

Manufactured by:

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Moscow office Profsoyuznaya 23, Moscow, 117997. Tel.: 8 800 500-07-22

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