

TECHNICAL DATA SHEET

Name: «ROCKMESH®» composite mesh

Marking: SK (2.2- 50)/(2.2-50) x 300 x 200*

* For standard dimensions

Structure: «ROCKMESH®» composite mesh is manufactured from «ROCKBAR®» rebars arranged to each other in the perpendicular pattern and securely fixed at cross points.

Delivery: in rolls or sheets, which increases the rates of construction works.

Intended use: replacement of traditional steel mesh for reinforcement of various construction structures

Areas of application:

Residential and civil construction:	<ol style="list-style-type: none"> 1. Reinforcement of concrete structures: internal and external wall panels, including reinforcement of multilayer panels, floor slabs, beams 2. Reinforcement of concrete floors 3. Reinforcement of brick and masonry walls of buildings and structures 4. Reinforcement of decorative concrete and plaster elements. 5. Reinforcement of other construction elements from concrete, plaster
Industrial engineering:	<ol style="list-style-type: none"> 1. Reinforcement of concrete structures: internal and external wall panels, including reinforcement of multilayer concrete wall panels, beams 2. Reinforcement of concrete floors 3. Reinforcement of hydraulic structures, waterside structures 4. Reinforcement of brick and masonry walls of buildings and structures 5. Reinforcement of decorative plaster articles 6. Reinforcement of other construction materials manufactured from concrete, plaster
Road construction:	<ol style="list-style-type: none"> 1. Reinforcement of road slabs 2. Reinforcement of automobile roads, bridges 3. Road and railroad safety guardrails
Construction of bridges and hydraulic structures	<ol style="list-style-type: none"> 1. Reinforcement of bridge deck slabs 2. Reinforcement of pedestrian footpaths 3. Reinforcement of onshore facilities. 4. Construction of berths, dams, reservoirs, fountains, etc.

Besides the civil and industrial construction, the use of the mesh is worthwhile in aggressive and moisture conditions, chemical manufacturing facilities, treatment facilities, in agriculture, retention basins, reservoirs, hydraulic structures

Properties:

High strength, corrosion and chemical resistance, light weight, low thermal conductivity, reliability and durability, high bond strength with concrete, dielectric properties, non-magnetic properties, eco-friendliness.

Standards and regulatory documents:

Certificate of conformance № POCC RU.AГ98.H12469,

TU 5714-011-13101102-2012,

Certificate of trademark registration № 483878 «ROCKMESH®»

Weight and dimensions* :

- Weight.....0.361 kg;
- Opening dimensions50 x 50, mm;
- Bar (wire) diameter.....2.0 2.2 mm;
- Width.....from 500 to 2000 mm;
- Lengthany.

* For standard dimensions

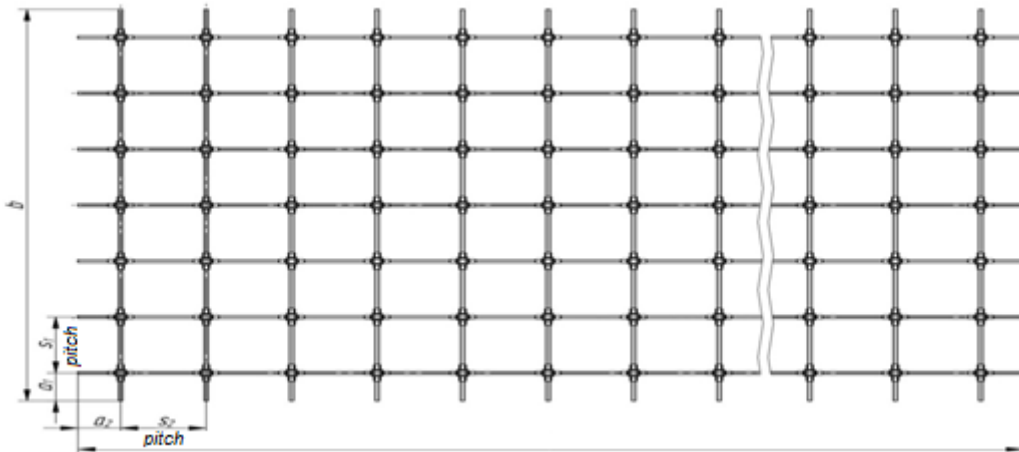
Technical data:

Comparison chart

Property	ROCKMESH composite mesh		Metal wire mesh Bp-1 GOST 23279	
	Bar tensile strength, MPa	1550		550
Bar (wire) tensile force , kgf	600	760	400	720
Elongation, %	2.50		2.00	2.50
Thermal conductivity coefficient, W/(m ⁰ C)	0.46		56.00	
Weight per unit area, g/m ²	360		2220	
Conductivity	non-conductive		conductive	
Corrosion and chemical resistance	very high		low	
Magnetic characteristics	non-magnetic		magnetic	
Bonding strength, kgf	30		not rated	
- shear				
- break off	20		not rated	

Drawing:

Identification of mesh dimensions is shown in Figure 1.



where a_1 , a_2 - dimensions of free ends of longitudinal and transverse bars correspondingly

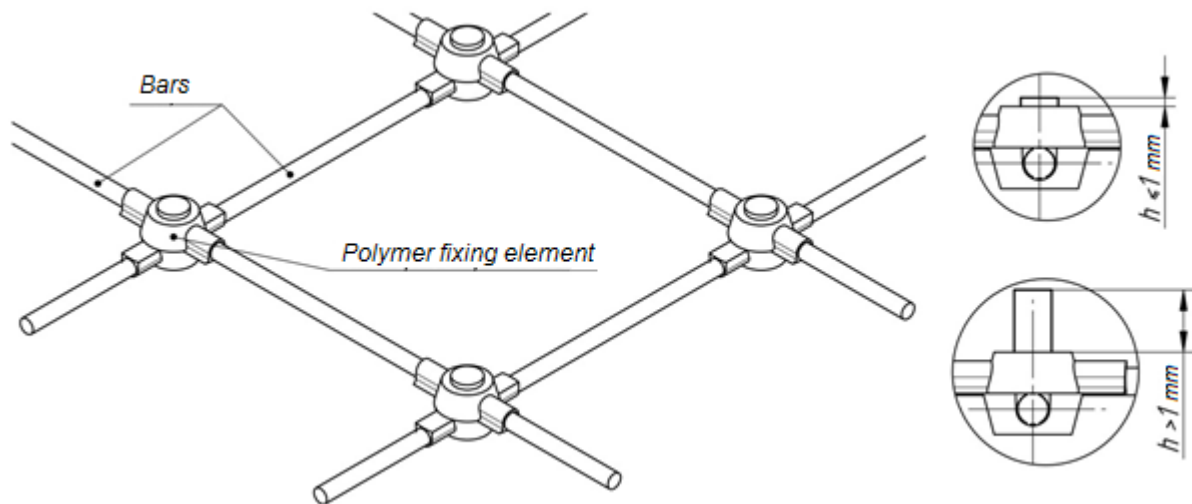
b – mesh width

l – mesh length

S_1 , S_2 - distance between bars (in axes) – pitch of longitudinal and transverse bars correspondingly

Figure 1 – Identification of mesh dimensions

Connection of the transverse and longitudinal bars is shown in Figure 2.



where h – height of a fixing element

Figure 2 – Cross points of transverse and longitudinal bars