

Trokote[®]
since 1987

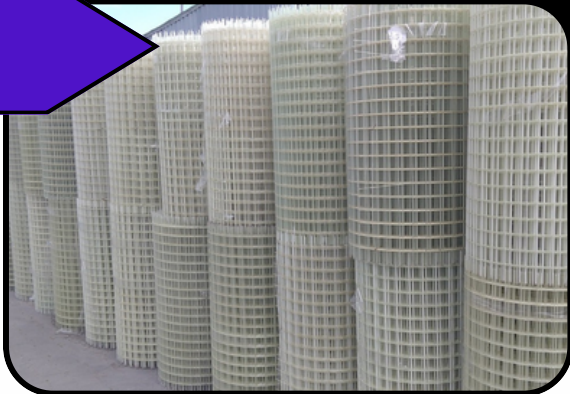


Mesh rebar

Trust Experience
Choose the Future.

Mesh rebar

TROKOTEX composite meshes are characterized by high strength already at the production stage. The rods are woven into the mesh structure and then bonded with epoxy resin.



Characteristics of TROKOTEX Composite Meshes

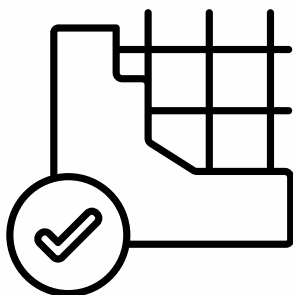
The meshes are made of composite rods with diameters of 3 and 4 mm, joined into grids with openings ranging from 50 to 150 mm.

The meshes are manufactured and supplied in rolls.

Composite mesh is intended for use in concrete structures as a substitute for traditional steel reinforcement.

Applications of TWS Meshes

TROKOTEX reinforcement meshes are primarily used in construction to strengthen reinforced concrete elements – such as screeds, floors, walls, and slabs – as well as in structural components like concrete pads, roads, and bridges.



**Looking for high-quality
reinforcement mesh?
Get in touch with us at:
siatki@trokotex.pl**

siatki@trokotex.pl

**Find out why you can
trust us – Trokotex**

**Trokotex is the only
certified company in
Poland with fully
documented production of
composite reinforcement.**

GRP Composite Meshes – CE
Marking, National Technical
Assessment



Why are GRP Composite Meshes a Great Solution?

It is the best way to extend the durability of **concrete structures.**

GRP composite meshes made from polymer for concrete reinforcement do not corrode, are resistant to moisture, chemicals, and varying weather conditions, significantly reducing the risk of damage and extending the lifespan of the entire structure.

Applications of GRP Composite Mesh

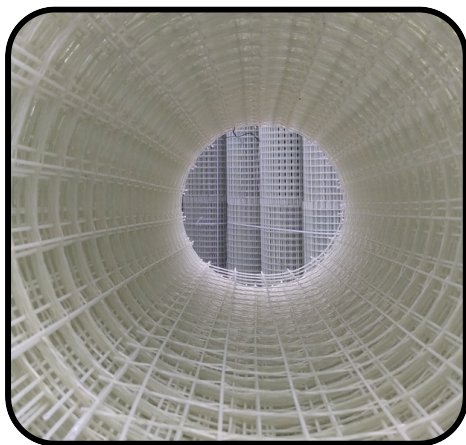
Its purpose is to enhance the strength of structures and substrates, ensure shrinkage resistance, and potentially protect underfloor heating systems.

Type of Mesh	Ø	Ø
Steel	5	6
Composite	3	4

Advantages of Composite Meshes

TWS/GRP Composite Reinforcement Meshes by TROKOTEX in the Polish construction market are designed for concrete structures as a substitute for traditional steel reinforcement. This is an innovative solution manufactured using the pultrusion process.

As a result of this process, a composite is created, consisting of a very large number of individual fibers arranged in parallel, embedded in a polymer matrix based on epoxy resin.



Benefits

Benefits of using TROKOTEX Meshes made from epoxy resin-based composites and fiberglass:

- **Cost Savings for the Investor** – due to the fully automated production system, composite meshes are cheaper than steel.
- **Fiberglass composite meshes** consist of rods with diameters of 3 and 4 mm, connected into grids with openings ranging from 50 to 150 mm. Most importantly, they are completely threadable with a 10-column configuration. The meshes are distributed in rolls and sheets, optimizing transportation costs.



100% Corrosion Resistance



9 times lighter than steel



Up to 30% cheaper than steel

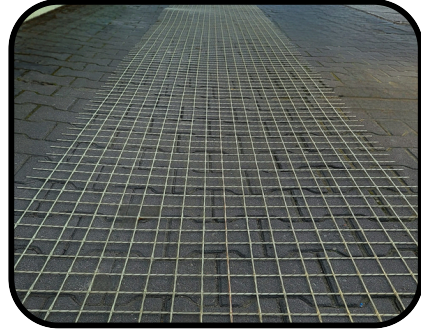


High adhesion to concrete

Applications of Composite Meshes

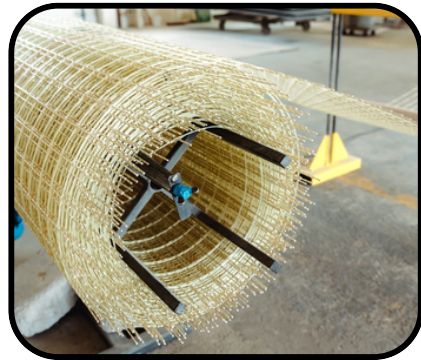
1: In civil engineering and construction, floors

Reinforcement of concrete structures. Stiffening of concrete and sandwich panels. Reinforcement of concrete, brick, and stone floors, as well as building walls.



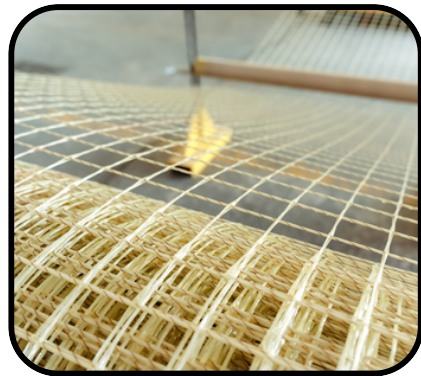
2: In industrial construction

Reinforcement of industrial floors. Reinforcement of floor screeds. Strengthening of dams and coastal structures. Corrosion-resistant reinforcement intended for the construction or renovation of swimming pools.



3: In road construction:

Reinforcement of road slabs, highways, and airports; stiffening of road and railway embankments; strengthening of bridges and bridge structures; stainless steel fences and barriers.



Visit our website to learn more about the applications.

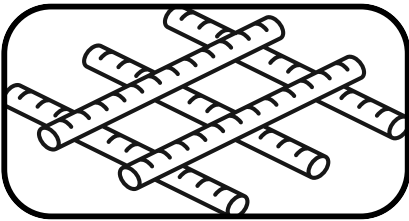
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Application of composite meshes.

Reinforced composite meshes are also used in construction and the repair of building walls.

In construction:

- Composite mesh for reinforcing walls and similar structures.
- Strengthening load-bearing walls of buildings.
- Reinforcement of concrete structures in tunnels.
- Strengthening foundations and structural supports.
- Application in reinforcing walls in basements and other moisture-prone areas.



Visit our website to learn more about the applications.

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Composite or Steel? comparison

Comparative characterization of physicochemical properties.

Material	Steel KL-AIII	Glass fiber impregnated with epoxy resin.
Tensile strength (MPa).	500	1250
Elastic modulus (MPa).	200000	55000
Susceptibility to deformation.	Elastic-plastic.	linear elastic.
Coefficient of linear expansion (%).	26	2,2
Thermal conductivity coefficient W/(mK).	46	0,35
Density kg/m³ – specific weight N/m³.	7880	1890
Corrosion resistance.	Corrodes.	Fully corrosion-resistant.
Electrical conductivity.	Conducts electricity.	dielectric.
Thermal conductivity.	High.	Low.
Produced diameters.	6 – 80	4 – 30
Impact on electromagnetic wave interference.	Disturbs the flow of waves.	Transparent to electromagnetic waves
Eco-friendliness	Non-eco-friendly.	Eco-friendly and easy to dispose of
Durability.	Compliant with building standards.	Projected lifespan – at least 100 years.

Request a quote

Our sales representatives will answer all your questions and will be happy to help you choose the right offer for you!

Call

+48 728 540 350

Write

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[Contact us](#)

