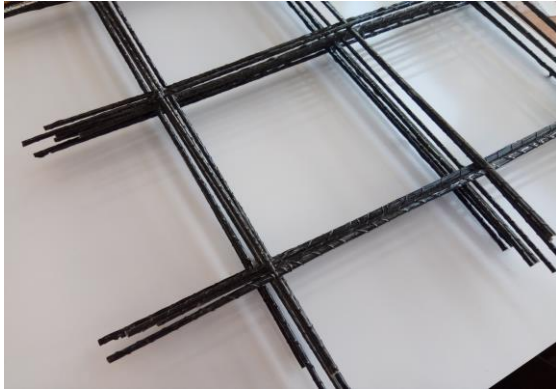


## Technical Data Sheet

### COMPOSITE POLYMER REINFORCING MESH

Reinforcement of prefabricated and monolithic ferro-concrete structures and articles



**STEKON composite reinforcing mesh** consists of glass composite (fiber-reinforced polymer) rods with a diameter of 2 to 6 mm inclusive, the rods are arranged in two mutually transverse directions. The rods comprise reinforcing fibers of Advantex- glass resistant to aggressive media, or of basalt, which are impregnated

with a polymer binding agent.

#### Typical application:

- reinforcement of sand cement screeds
- reinforcement of brickworks
- reinforcement of bilayer walls containing different materials (brick, gas-concrete- breeze-, claydite-concrete blocks and others)
- reinforcement of facing bricks
- reinforcement of ferro-concrete articles;
- reinforcement of thick plaster layer;
- reinforcement of asphalt concrete during construction of roads
- reinforcement of soil (embankments, slopes, retaining walls, sides of ditches and pits).

#### Physical and mechanical properties

Property	Value
Ultimate tensile strength, MPa, not less than	1000
Loss of tensile strength after conditioning in alkali medium, not more than	25%
Shearing strength, MPa, not less than	150
Resistance to direct pull, kg, not less than	15

#### An example of comparison to metal mesh in terms of weight and diameter of a rod\*

Reinforcing mesh CCK-2mm STEKON weight of 1m <sup>2</sup> = 0.13kg	Metal (BP-1) 3mm weight of 1m <sup>2</sup> = 1kg
Reinforcing mesh CCK-2.5mm STEKON weight of 1m <sup>2</sup> = 0.16kg	Metal (BP-1) 4mm weight of 1m <sup>2</sup> = 1.85kg

\* Recommended replacement of rod diameters is based on comparison of tensile parameters (1000 MPa in terms of tension). In basic fields of application, such as screeds, the mesh serves as construction reinforcement, so other parameters are not taken into account.

## Technical Data Sheet

# COMPOSITE POLYMER REINFORCING MESH

Reinforcement of prefabricated and monolithic ferro-concrete structures and articles

**STEKLONIT**

### Advantages of composite reinforcing meshes:



high durability of composite rods,



corrosive resistance,



low weight (more convenient and cost-effective to transport, safety during installation),



low thermal conductivity (no thermal bridge).

### Packaging:

The reinforcing mesh is supplied either on pallets or in roll form. Weight of a package is not more than 80 kg.

### Certificates:

- Certificate of conformity

### Regulatory documents:

- STO 00205009-011-2012

### Manufactured by:

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