REBAR

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GFRP BENT ELEMENTS

Due to the dielectric properties of fiberglass rebars, welding is not possible. Therefore, bent elements should be used for angle reinforcement.

GFRP bent elements are made of glass fibers embedded in the resin, and they can take any size and shape: circles, rhombuses, triangles, and squares.

The possibility of using fiberglass bent elements opens up various possibilities for its use in construction and engineering projects.

Properties	**Glass fiber**
Rod diameter	4-32mm
Fiber content	83-86 percent
Density	2.1 * 103 kg / m3
Service life	80-100 years
Electrical conductivity	Non-conductive
Aggressive environment resistance	Non-corrosive and acid-resistant

Production process
Usually, it is made according to the customer's sizes using chemically resistant E-glass fiber, a special composition of epoxy resins and hardeners using coating technology. The spiral is formed by pulling the rod in the dies, winding with an anchoring layer, applying a quartz coating, winding on the mold and polymerizing the product, which determines its excellent physical, and mechanical characteristics. Due to the applied coating, the element has excellent adhesion to concrete.

Advantages
- Non-corrosive
- Non-conductive
- Non-magnetizable
- Lifespan of up to 80 years
- 6 times lighter than steel

Download application standards