

To whom it may concern,

ETIZ Composite has produced and delivered composite reinforcements and the equipment for its production across Russia for 5 years.

The ETIZ composite reinforcement has a number of advantages over the standard steel reinforcement and similar composite materials. The products are manufactured with the unique ETIZ patented technology at the ETIZ Manufacturing Facility equipped with the ETIZ Composite designed and developed equipment. ETIZ Manufacturing Facility produces composite rebar with the world's only 4-rope fiberglass winding.

The ETIZ manufacturing equipment guarantees quality of the ETIZ composite reinforcement with:

- elastic modulus – not less than 50 GPa;
- tensile strength – not less than 1000 MPa;
- tensile adhesive strength between reinforcement and concrete – not less than 12 MPa;
- density – not less than 2.0 g/cm³;
- high content of reinforcing material – not less than 75% of total weight of composite rebar.

ETIZ Composite products satisfy the requirements of GOST 31938-2012 of the Russian Federation and exceed the requirements of the US ASTM International Standard (D7957/D7957M-17).

ETIZ Composite reinforcements can also be produced with basalt, carbon, or aramid fiber.

ETIZ Composite products are used in many areas including but not limited to:

- **structures on elastic foundations in civil and industrial construction** (mat and strip foundations, piles, and industrial flooring);
- **concrete structures in the corrosive environment of salt and water** (concrete wave breakers, swimming pools, harbor facilities, embankments, and mooring areas);
- **concrete structures for chemical and agricultural sectors used in acidic and alkali environments** (storage tanks and vessels, piping systems, including those used for transporting chemicals);
- **concrete structures located next to high intensity radiation fields** (high-voltage transformers and installation facilities, concrete structures next to high-voltage cables and substations);
- **non-conductive and radio transparent concrete structures** (outpatient wards with special equipment, military facilities, and the nuclear industry);
- **soft-eye tunneling** (retaining walls for subway tunnels, subways extensions, and shaft lining);

- **elastic foundations of road structures** (concrete bridge decks (permanent and portable bridges), concrete bridge railings, road and air-field slabs, and road foundation slabs)
- **low thermal conductivity building structures** (flexible connectors in triple-layer wall panels)

The advantages of the composite rebars over the steel ones:

- non-conductivity and radio transparency of concrete structures;
- reduced delivery, loading/unloading, and handling costs. Composite rebars are four times lighter and much more compact being produced in coils;
- increased life expectancy of concrete structures, especially in harsh acidic, alkali, salty, and water environments;
- low thermal conductivity, no cold bridges;
- cost savings in reinforcement materials for concrete structures on elastic foundation.

The ETIZ composite reinforcements are similar to traditional steel reinforcements in laying with standard tie wire. For convenience and cost reduction ETIZ Composite delivers the rebar of up to 10 mm in diameter in 100-meter coils.

ETIZ products are widely used in construction of industrial warehouses and manufacturing facilities, building foundations, and tunnels.

ETIZ Composite delivers the products to large-scale construction projects through the company's dealer network.

Please consider using ETIZ Composite LLC as your reliable supplier of composite reinforcement for all your construction projects.

Feel free to contact ETIZ Composite LLC office with all questions and requests for more information, materials and samples.

Looking forward to hearing from you,