



**НИЦ «строительство»**  
научно-исследовательский центр



АКЦИОНЕРНОЕ ОБЩЕСТВО «НАУЧНО-ИССЛЕДОВАТЕЛЬСКИЙ ЦЕНТР «СТРОИТЕЛЬСТВО»  
НАУЧНО-ИССЛЕДОВАТЕЛЬСКИЙ,  
ПРОЕКТНО-КОНСТРУКТОРСКИЙ  
И ТЕХНОЛОГИЧЕСКИЙ ИНСТИТУТ БЕТОНА  
И ЖЕЛЕЗОБЕТОНА ИМЕНИ А. А. ГВОЗДЕВА

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### A LETTER OF RECOMMENDATION

NIIZhB named after A. A. Gvozdev is working on the introduction of composite polymer reinforcement (AKP) in the construction industry of the Russian Federation. Our institute has accumulated extensive experience in both theoretical and practical research in this area, and currently we are working to provide the construction market with high-quality composite polymer reinforcement.

The performed tests of fiber-glass composite reinforcement of "BASIS Standard" and "BASIS Quartz" brands produced by HELP Composite JSC showed compliance with GOST 31938 requirements, which allows us to recommend this composite reinforcement for use in the following areas of the construction industry:

- **during the construction of road transport infrastructure facilities as follows:**
  - slabs, decking and fencing of pedestrian and automobile bridges;
  - concrete fences and blocks of dividing strips, curbs, road, tram and sidewalk slabs;
- **- in the construction of facilities operated in conditions of high electromagnetic fields and difference of electric potential exposed to leakage currents:**
  - boxes for the equipment of magnetic resonance, computer, nuclear magnetic tomography, research works;
  - light posts and power lines;
  - structures for electricity-generating units and transformer substations, railway sleepers, etc.;
- **- in the construction of chemical production facilities, burial sites, water preparation and water treatment, land reclamation;**
  - electrolysis baths, concrete tanks and storage facilities, agricultural tanks;
- **in structures made of concrete, which are characterized by a reduced protective effect against steel reinforcement;**
  - plain concretes on Portland cement with an alkali content of not more than 0.6 %, ironportland cement, trass concrete, cements with a high content of active mineral additives;
  - monolithic concretes with chloride-containing antifreeze additives;
  - macroporous concrete for drainage pipes, large-pore lightweight concrete, cellular concrete;

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