



## Fiberglass Reinforcement

Corrosion-Proof Longevity & High-Tensile Composite Engineering

## Key Features

**Total Corrosion Resistance:** 100% rust-proof material, ideal for high-salinity coastal areas (like Kilifi) and chemical processing plants.

**Superior Tensile Strength:** Boasts a tensile strength up to 3x higher than standard Grade 500 steel rebar.

**Ultra-Lightweight:** 4x lighter than steel, significantly reducing transport costs and on-site manual handling fatigue.

**Non-Conductive & Non-Magnetic:** Ideal for MRI rooms, electrical substations, and sensitive electronic environments.

**Thermal Neutrality:** Does not create thermal bridges, enhancing the energy

## Technical Specifications

Parameter	Details
Diameter Range	4mm to 32mm (Straight & Custom Bent)
Mesh Grid Sizes	50mm x 50mm up to 200mm x 200mm
Tensile Strength	600 - 1100 MPa (depending on diameter)
Elastic Modulus	>40 GPa
Density	1.9 - 2.1 g/cm³
Bond Strength	Sand-coated surface for superior concrete adhesion

## Benefits

**Zero Maintenance:** Eliminates the risk of "concrete cancer" (spalling) caused by rusting steel reinforcement.

**Ease of Cutting:** Can be easily cut with standard saws, eliminating the need for heavy-duty rebar shears.

**Sustainability:** Longer service life (100+ years) reduces the need for structural repairs and material replacement.

**Bent Shapes:** Factory-customized bends (links, stirrups, and corners) ensure precision without the micro-cracking associated with

## Applications

**Coastal Infrastructure:** Sea walls, piers, and foundations exposed to salt spray.

**Precast Elements:** Reinforcement for thin-wall panels where concrete cover is minimal.

**Swimming Pools & Water Tanks:** Continuous exposure to water and chlorine requires rust-proof reinforcement.

**Flatwork & Pavements:** Mesh reinforcement for driveways and industrial floors to control shrinkage cracking.

## Why Choose WEB Housing Fiberglass Reinforcement?

**High-Tech Composite:** Our reinforcement uses premium glass fibers and vinyl ester resins for maximum chemical resistance.

**Custom Fabrication:** We provide pre-bent stirrups and custom-sized mesh rolls to match your structural drawings perfectly.

**Certified Performance:** Every batch is tested for tensile properties to ensure it meets international composite