



3MAX™ FIBERGLASS REBAR

PRODUCT TECHNICAL DATA



3MAX™ Fiberglass Rebar is a high-strength composite reinforcing bar from MSTBAR®. Engineered for concrete flatwork, 3MAX™ Fiberglass Rebar is made with code-compliant Vinyl Ester Resin & corrosion-proof ECR Glass Fibers to give your reinforced concrete centuries of serviceability.



3MAX™ Fiberglass Rebar is an ASTM D7957 Certified Building Material.

ADVANTAGES

- **Rust-Proof**
Completely eliminates cracks from spalling.
- **200+ Years Service Life**
Engineered to last for generations.
- **Quick & Simple Installation**
Save up to 50% labor compared to steel rebar.
- **Transportation Savings**
75% lighter than traditional steel rebar.
- **High Performance in All Climates**
Stronger reinforcement in freeze-thaw regions & guaranteed longevity in coastal regions. steel rebar.
- **Stronger Than Steel**
Over 3X stronger than Grade 40 rebar.
- **Nonconductive & Nonferrous**
Ideal for projects with electromagnetic sensitivity.
- **Superior Crack Control**
80% less crack initiation compared to traditional steel rebar.
- **Chemical Resistant / No waterproofing**
Impervious to de-icing salts and corrosive chemicals and eliminates the need for costly waterproofing agents.

PHYSICAL & MECHANICAL PROPERTIES

BAR DIMENSIONS	0.375 in Diameter x 20 ft Length
CROSS-SECTIONAL AREA	0.11 in ²
BAR COMPOSITION	Vinyl Ester Resin & ECR Glass Fiber
BAR PROFILE	Integral Rib Design (No Sand-Coating Required)
TENSILE STRENGTH	145 ksi (1000 MPa)
ELASTIC MODULUS	6675 ksi (46 GPa)
SHEAR STRENGTH	23.5 ksi (161 GPa)
PULL-OUT CAPACITY	2600 psi (18 MPa)

APPLICATIONS

3MAX™ Fiberglass Rebar replaces steel mesh and steel rebar for all (but not limited to) the following applications:

- Parking Lots
- Street Pavement
- Sidewalks
- Curb & Gutter
- Patios
- Decorative Concrete
- Slab on Grade
- Pool Decks
- Concrete Countertops

HANDLING & INSTALLATION

Always wear gloves when handling 3MAX™ Fiberglass Rebar to protect against fiberglass splinters. Avoid direct contact with skin. When cutting 3MAX™ Fiberglass Rebar, use a diamond blade for best results. Tie and chair 3MAX™ Fiberglass Rebar as you would steel rebar. Generally, minimum lap splice length of 15 inches is sufficient unless otherwise specified.



To learn more about 3MAX™ Fiberglass Rebar and other product lines from TUF-N-LITE, give us a call or visit us on the web.

TUF-N-LITE, LLC
(513) 472-8400
www.mstbarusa.com
www.tufnlite.com