

# 4MAX™ FIBERGLASS REBAR

## PRODUCT TECHNICAL DATA

4MAX™ Fiberglass Rebar is a high-strength composite reinforcing bar from MSTBAR®. Engineered for concrete flatwork, 4MAX™ Fiberglass Rebar is made with code-compliant Vinyl Ester Resin & corrosion-proof ECR Glass Fibers to give your reinforced concrete centuries of serviceability.

 **4MAX™ 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 4X 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

<b>BAR DIMENSIONS</b>	0.45 in Diameter x 20 ft Length
<b>CROSS-SECTIONAL AREA</b>	0.16 in <sup>2</sup>
<b>BAR COMPOSITION</b>	Vinyl Ester Resin & ECR Glass Fiber
<b>BAR PROFILE</b>	Integral Rib Design (No Sand-Coating Required)
<b>TENSILE STRENGTH</b>	165 ksi (1140 MPa)
<b>ELASTIC MODULUS</b>	7550 ksi (52 GPa)
<b>SHEAR STRENGTH</b>	27 ksi (186 MPa)
<b>PULL-OUT CAPACITY</b>	2900 psi (20 MPa)

### APPLICATIONS

4MAX™ 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 4MAX™ Fiberglass Rebar to protect against fiberglass splinters. Avoid direct contact with skin. When cutting 4MAX™ Fiberglass Rebar, use a diamond blade for best results. Tie and chair 4MAX™ Fiberglass Rebar as you would steel rebar. Generally, minimum lap splice length of 15 inches is sufficient unless otherwise specified.

To learn more about 4MAX™ Fiberglass Rebar and other MSTBAR® Composite Rebar Products, or to request pricing, give us a call or visit us on the web.



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