



# 4MAX™ COMPOSITE REBAR

## PRODUCT TECHNICAL DATA



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



4MAX™ Composite Rebar is an ASTM D7957 Certified Building Material.



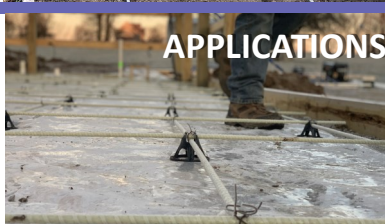
### ADVANTAGES

- **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 compared to 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
<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™ Composite Rebar replaces welded wire fabric, #3, #4, and #5 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™ Composite Rebar to protect against fiberglass splinters. Avoid direct contact with skin. When cutting 4MAX™ Composite Rebar, use a diamond blade for best results. Tie and chair 4MAX™ Composite Rebar as you would steel rebar. Generally, minimum lap splice length of 15 inches is sufficient unless otherwise specified.

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



Give us a call at any of our branch locations, email us at [info@formtechinc.com](mailto:info@formtechinc.com), or click on [formtechinc.com/quote](http://formtechinc.com/quote) to get a quote. Our experienced Form Tech representatives will answer your questions, and help you get your project started with some of the best concrete forming, shoring, and accessory products in the industry, backed by a professional and detail-oriented staff.

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