

MST
MAXIMUM STRENGTH FRP

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

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