 Cost Lifettive Less \$\$ than epoxy coated and plain steel rebar. Rust-Proof Impervious to chloride ion and chemical attack. Nonconductive & Nonferrous Ideal for projects with electromagnetic 		 steel rebar due to high bond strength. Chemical Resistant / No Waterproofing Impervious to de-icing salts and corrosive chemicals and eliminates the need for costly waterproofing agents.
BAR DIMENSIONS	0.45 in. Diam	eter
CROSS-SECTIONAL AREA	0.16 in ²	
BAR COMPOSITION	Vinyl Ester Resin & ECR Glass Fiber	
BAR PROFILE	Integral Rib Design (No Sand-Coating Required)	
ULTIMATE TENSILE FORCE	18.1 kips (80.5 kN)	
ELASTIC MODULUS	9427 ksi (65 GPa)	
SHEAR STRENGTH	32.9 ksi (227 MPa)	
PULL-OUT CAPACITY	3600 psi (24.8 MPa)	

4EQ Structural Bar® is a high-strength composite reinforcing bar from MST-BAR®. It is the first GFRP rebar to pass all performance requirements of ICC-ES Acceptance Criteria AC454 and to be issued an ESR report by ICC-ES. 4EQ Structural Bar® is made with code-compliant Vinyl Ester Resin & corrosion-proof ECR Glass Fibers to give your reinforced concrete centuries of serviceability.

ASTM ASTM 4 D7957 J 4EQ Structural Bar[®] is an ASTM D7957 Certified Building Material.

ICC-ES ESR 4664

Meets all ACI standard for reinforcement under ACI 440.1.

• Code Compliant

Can be used in 2018 & 2021 IBC and IRC concrete reinforced designs.

Cost Effective

sensitivity.

 High Performance in All Climates Stronger reinforcement in freeze-thaw regions & guaranteed longevity in coastal regions compared to steel rebar.

• Superior Crack Control

80% less crack initiation compared to traditional

SHEAR STRENGTH	32.9 ksi (227 MPa)	
PULL-OUT CAPACITY	3600 psi (24.8 MPa)	
4EQ Structural Bar [®] replaces steel rebar for most structural design concrete elements. Design Manual (DM-4EQMST) is available with examples. AGS Concrete Design software is also available through the MST-BAR [®] manufacturer website. 4EQ Structural Bar [®] is not currently tested to support seismic elements in Seismic Design Category D & E.		

Always wear gloves when handling 4EQ Structural Bar® to protect against fiberglass splinters. Avoid direct contact with skin. When cutting 4EQ Structural Bar®, use a diamond blade for best results. Tie and chair 4EQ Structural Bar® as you would steel rebar. Generally, minimum lap splice length of 24 inches is sufficient unless otherwise specified.

To learn more about 4EQ Structural Bar® and additional high modulus of elasticity MST-BAR® composite rebar products, or to request pricing, give us a call or visit us on the web.

> TUF-N-LITE, LLC (513) 472-8400 info@tufnlite.com www.tufnlite.com















