

MST-BAR® High-Mod™

High Modulus Glass Fiber
Reinforced Polymer (GFRP) Rebar

Higher Strength = Cost Saving

Over 2x stronger tensile strength than grade 60 steel rebar allows for less bar with same performance

Corrosion-Proof Reinforcement

Zero rust, zero spalling, eliminates costly rehabilitation and maintenance

200+ Years Service Life

Engineered to extend the service life of your reinforced concrete for centuries

Quick & Simple Installation

Up to 50% labor savings compared to installing traditional steel rebar

Transportation Savings

25% the weight of steel rebar. One truck of MST-BAR® replaces four truckloads of steel

High Performance in All Climates

Stronger reinforcement in freeze-thaw regions & guaranteed longevity in coastal regions

Save On Concrete

No corrosion inhibitor, use chloride-based accelerants, reduced footing volumes

No Waterproofing

Eliminates need for costly waterproofing agents and epoxy coating necessitated by rust-prone steel rebar

MST-BAR BEND™ Technology

Fastest turnaround time for factory fabricated bent bars. Our proprietary corrugated sleeve achieves any bend possible

Nonconductive & Nonferrous

Ideal for projects with electro-magnetic sensitivity

High Chemical Resistance

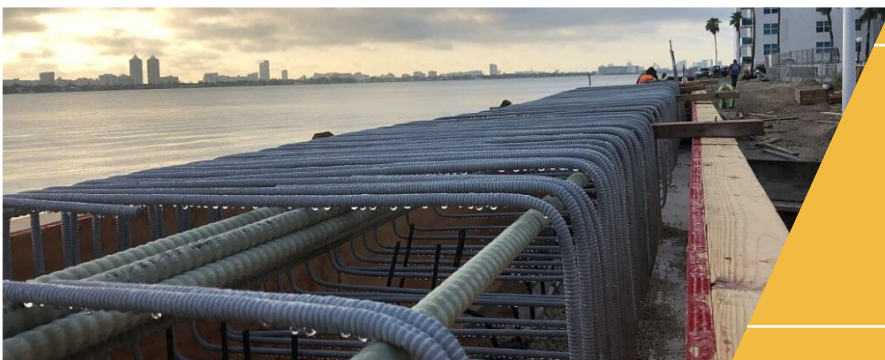
High alkaline resistance. Impervious to de-icing salts and other harsh chemical attacks

Environmental Sustainability

Up to 70% less embodied carbon than recycled black steel rebar

High Fatigue Resistance

20x higher resistance under cyclical loading compared to traditional steel rebar



2X
STRONGER &
CODE APPROVED

75%
LESS WEIGHT,
LOWER LABOR COSTS,
FEWER DELIVERIES



BAR SIZE DESIGNATION	#2	#3	#4	#5	#6
NOMINAL DIAMETER	0.25 in (6mm)	0.375 in (10mm)	0.5 in (13mm)	0.625 in (16mm)	0.75 in (20mm)
NOMINAL AREA	0.05 in ² (32 mm ²)	0.11 in ² (71 mm ²)	0.20 in ² (129 mm ²)	0.31 in ² (199 mm ²)	0.44 in ² (284 mm ²)
WEIGHT	0.18 lb/ft	0.33 lb/ft	0.52 lb/ft	0.74 lb/ft	1.04 lb/ft
MINIMUM TENSILE FORCE	7.42 kips (33 kN)	16.0 kips (71.2 kN)	30.4 kips (135 kN)	45.0 kips (200 kN)	65.0 kips (289 kN)
BENT BARS AVAILABLE	✓	✓	✓	✓	✓

BAR SIZE DESIGNATION	#7	#8	#9	#10	#11
NOMINAL DIAMETER	0.875 in (22mm)	1 in (25mm)	1.128 in (29mm)	1.250 in (32mm)	1.50 in (36mm)
NOMINAL AREA	0.60 in ² (387 mm ²)	0.79 in ² (510 mm ²)	1.00 in ² (645 mm ²)	1.27 in ² (819 mm ²)	1.66 in ² (1071 mm ²)
NOMINAL WEIGHT	1.34 lb/ft	1.82 lb/ft	2.08 lb/ft	2.56 lb/ft	3.20 lb/ft
MINIMUM TENSILE FORCE	87.68 kips (390 kN)	114.0 kips (507 kN)	145.0 kips (645 kN)	184.0 kips (818 kN)	226.0 kips (1005 kN)
BENT BARS AVAILABLE	✓	✓	✓	✓	✓

CUSTOM LENGTHS AND DIAMETERS AVAILABLE

GUARANTEED TENSILE STRENGTH	145 ksi (1000 MPa)			
ELASTIC MODULUS (YOUNG'S MODULUS)	8702 ksi (60 GPa)	GUARANTEED BOND STRENGTH	3000 psi (21 MPa)	
TRANSVERSE SHEAR STRENGTH	31.9 ksi (220 MPa)	GUARANTEED BEND STRENGTH (Radius of >4x Bar Diameter)	87 ksi (600 MPa)	

MST-BAR meets the criteria for all of (but not limited to) the following Design Codes:

ACI 440.1R ACI 440.4R ACI440.5 AASHTO LRFD ACI 440.11 ASTM D8505 ASTM D7957

APPLICATIONS:

Seawalls, Water and Wastewater, Bridges, Commercial Construction, and Tunnels (stray current)... AND MORE

