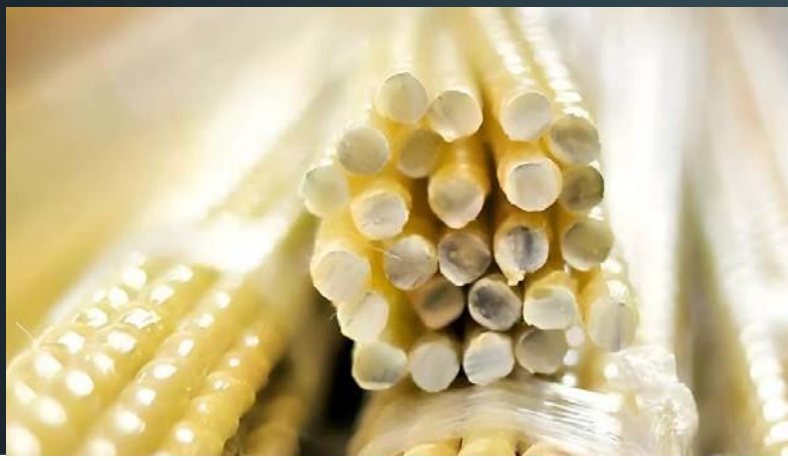
REBAR X
REINFORCING THE FUTURE
MADE IN THE USA
FIBERGLASS REBAR

PRODUCT DATA SHEET

FIBERGLASS REBAR

Rebar X products provide a durable, corrosion-resistant alternative to traditional steel rebar, offering excellent strength and longevity even in harsh environments. Made entirely in the USA, our FRP rebar is competitively priced with steel, lightweight, and easy to handle—ideal for projects demanding high performance.



APPLICATIONS

RESIDENTIAL CONSTRUCTION ENGINEERING

- Building foundations
- Repair and reinforcement of load-bearing capacity in masonry and reinforced concrete structures.

HIGHWAY CONSTRUCTION

- Strengthening of roadbeds
- Pavements, airfields, and gray Portland cement slabs.

MEDICAL/DATA CENTERS

- Non-ferromagnetic, so won't distort the MRI's static field —preserving image quality and patient safety.
- Electrically non-conductive, \ won't pick up induced currents or create inadvertent Faraday cages—ensuring reliable wireless coverage and zero EMI-related data errors in secure data centers.

BRIDGE CONSTRUCTION AND REHABILITATION

- Building foundations.
- Repair and reinforcement of load-bearing capacity. in masonry and reinforced concrete structures.

FEATURES AND BENEFITS

CORROSION RESISTANCE
FRP rebar doesn't rust, ideal for coastal, marine, and chemical environments.

HIGH STRENGTH-TO-WEIGHT RATIO
Stronger yet lighter than steel, cutting transport and handling costs. (25% of weight of steel!)

LONG TERM DURABILITY
Extended service life with reduced maintenance and lower long-term costs.

NON-CONDUCTIVE & NON-MAGNETIC
Perfect for applications needing electromagnetic neutrality, like MRI or electrical facilities.

CHEMICAL RESISTANCE
Resistant to chemicals and salts, ideal for aggressive environments.

EASE OF INSTALLATION
Lightweight and easy to cut, speeding up installation and reducing labor costs.

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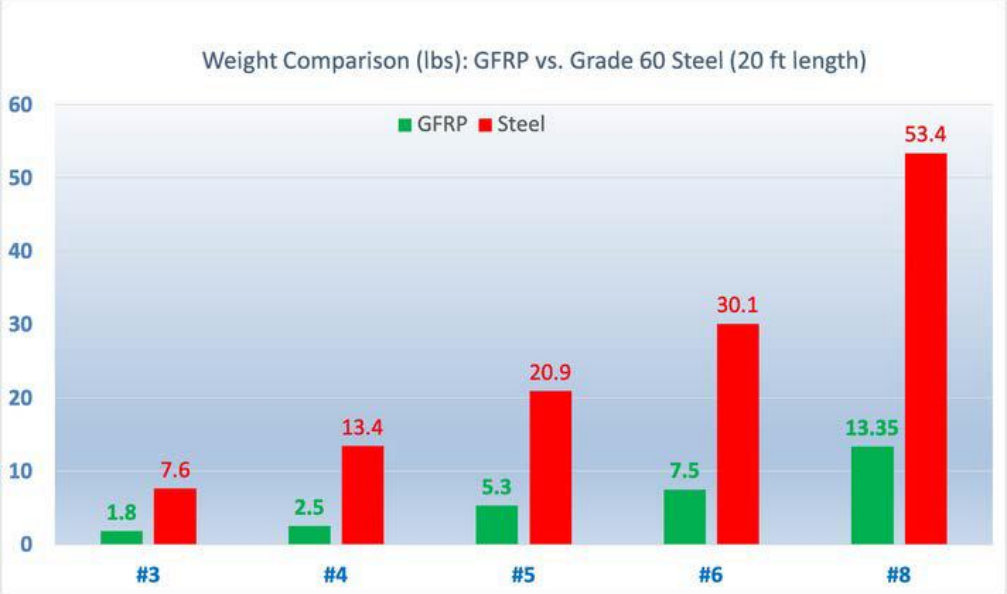
	Units	#3	#4	#5	#6	#7	#8
Tensile Strength	kN	80	130	200	280	380	490
	MPa	1123	1008	1010	982	980	967
Weight	g/m	89	179	279	410	547	714
	lb/ft	0.06	0.12	0.19	0.28	0.37	0.48
Diameter (without ribs)	mm	10	13	16	20	22	25
	in	3/8	1/2	5/8	3/4	7/8	1
Nominal Cross Sectional Area	mm^2	71	129	198	285	388	507
	in^2	0.110	0.200	0.307	0.442	0.601	0.785
Transverse Shear Capacity	psi	14200	14200				
	MPa	98	98				

Characteristic	Test Method
Tensile Testing	ASTM D7205-21
Transverse Shear	ASTM D7617-11(2017)
Linear Thermal Expansion	ASTM E831-24
Bond Strength	ASTM D7913-14(2020)
Ignition Loss	ASTM D2584-18

Material	Epoxy System
Void Content	No continuous voids
Modulus of Elasticity	6.65 MSI
Glass Fiber Content	> 77% by weight
Cross-Sectional Area Tolerance	– 0% / + 20%
Ultimate Elongation	2.28%
Transition Temperature (Tg)	> 235°F (113°C)
Moisture/Water Absorption	≤ 0.20% at 23 °C 24 h immersion (ASTM D570)
Bond Stregth to Concrete (D7913-14)	1,291 psi (2.5 in bonded length, 0.5 in diameter)

Disclaimer: Physical and mechanical properties, including tensile strength, modulus, and strain data, are subject to change without notice.

FRP to Steel Weight Comparison



Professional Engineer Certifications

- **Rebar X** sizes #3 and #4 may replace steel rebar sizes #4 and #5, respectively, in typical residential and commercial foundation elements.

- Structural Compliance currently in **Alabama, Arkansas, Colorado, Florida, Georgia, Kentucky, Louisiana, North Carolina, South Carolina, Tennessee, Texas** - others pending

Pricing

Description	Each price not full truck	Truckload Qty.	Unit Weight LBS.	Full Truck weight LBS.	Full Truck each	Truckload total
#3 20 Piece	$5.44	17,500	1.8	31,500	$5.23	$91,525.00
#4 20 Piece	$9.66	10,000	2.75	27,500	$9.28	$92,800.00
#5 20 Piece	$14.50	6,400	4	28,160	$13.92	$89,088.00
150'x 6.5' Roll 6"x6" square	$255.00					

Plus applicable sales tax Plus shipping **info@rebar-x.com**

****Disclaimer:** Specifications and features may be subject to change without notice.