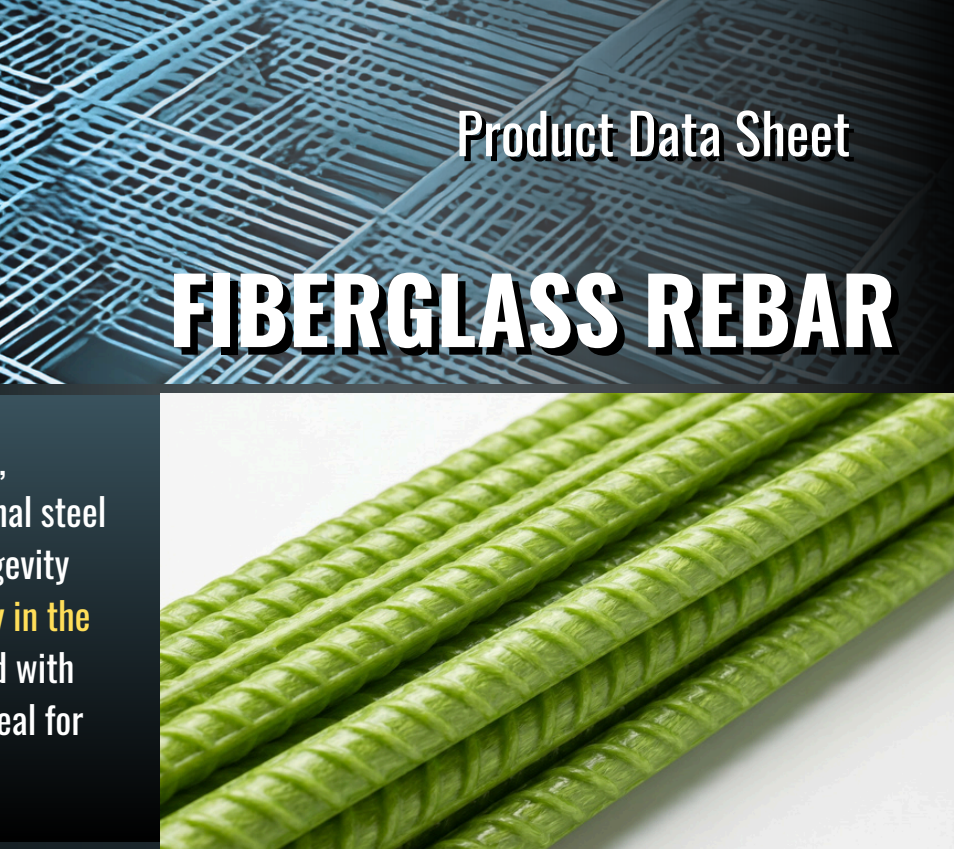




# FIBERGLASS REBAR



Pirate Rebar 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



### COMMERCIAL CONSTRUCTION

- Accelerate commercial projects with ASTM and code compliant GFRP rebar



### 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.



### INDUSTRIAL ENGINEERING

- Reinforcement of concrete tanks, treatment facility storage, and sewage well covers.
- Components for chemical manufacturing facilities.
- Strengthening of concrete flooring.
- Water resource development facilities.



### 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.

### 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.

### COLOR CODED SIZES

The **ONLY** manufacturer globally that color codes for ease of identification and prevent errors

### 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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For more  
**INFO**



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## Physical / Mechanical Properties

	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 <sup>2</sup>	71	129	198	285	388	507
	in <sup>2</sup>	0.110	0.200	0.307	0.442	0.601	0.785
Transverse Shear Capacity	psi	>30,000					
	MPa	207					

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

## Property

## Specification

<b>Material</b>	USA Manufactured Resin Systems
<b>Modulus of Elasticity</b>	6.65 MSI
<b>Glass Fiber Content</b>	> 80% by weight
<b>Cross-Sectional Area Tolerance</b>	- 0% / + 20%
<b>Ultimate Elongation</b>	2.28%
<b>Transverse Shear Strength</b>	> 30,000 psi (207 MPa)
<b>Bond Strength to Concrete (D7913-14)</b>	1291 psi
<b>Moisture / Water Absorption</b>	≤ 0.20% at 23 °C 24 h immersion (ASTM D570)

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

