

ZippMat™

Swift. Smart. Sustainable.

ISO 9001:2015 Certified Company

STRONGER THAN **STEEL**
SMARTER THAN **EVER**



 **EkoTM
Bar**

GFRP Rebars

www.ekobar.in



The Smarter Alternative to Steel.

EkoBar™ GFRP is ZippMat's cutting-edge, eco-conscious substitute for traditional steel. Engineered for the future of construction.

Features



80+ years
lifespan



20-35%
lower cost



~40% lower
lifetime emissions



2x Tensile
strength



Non-conductive to
heat and electricity



Theft
proof

4X

4x lighter



Easy and fast
Installation

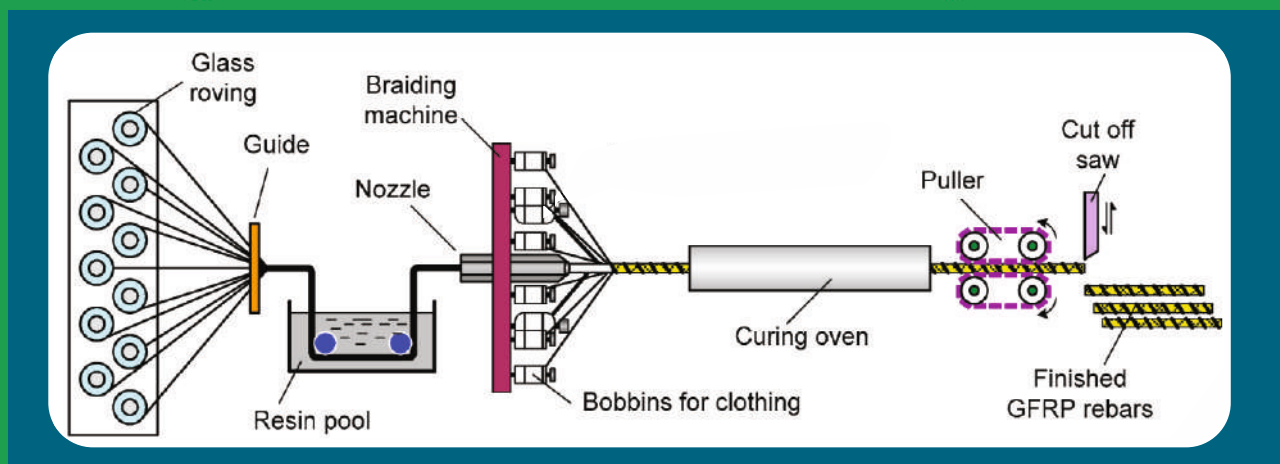


Non-magnetic
(transparent to
electrical fields)

What is GFRP?

GFRP (Glass Fiber Reinforced Polymer) rebar is a non-metallic construction material used to reinforce concrete structures. It's made by combining high-strength glass fibers with a polymer resin matrix. This results in a rebar that's lightweight, strong and highly resistant to corrosion, making it a promising alternative to **traditional steel TMT**.

EkoBar GFRP rebars are manufactured through a process called **pultrusion** where glass fibers are pulled through a resin bath and then through a heated die to form the desired shape.



Characteristics

Steel VS EkoBar GFRP

Property	Steel TMT Rebars	EkoBar GFRP Rebars
Density (Kg/m ³)	7.8	1.9
Tensile Strength (Mpa)	Up to 650	1000+
Shear Strength (Mpa)	120	170
Bond Strength (Mpa)	14	12.5
Compression (Mpa)	500	450
Modulus of Elasticity (Gpa)	160-200	65
Elongation (%)	25	4
Weight (Kg)	100%	25%
Corrosion Resistance	Low	High
Alkaline Resistance	Low	High
Service Life	40-50 years	80+ years



Lighter than steel - 75% lower weight

Diameter (mm)	Steel TMT Rebars (kg/meter)	EkoBar GFRP Rebars (kg/meter)
6	0.222	0.054
7	0.302	0.073
8	0.395	0.095
10	0.617	0.149
12	0.889	0.215
14	1.210	0.292
16	1.580	0.382
18	2.000	0.483
20	2.469	0.597
22	2.988	0.722
25	3.858	0.932

Economical than steel

Example cost comparison (per running meter basis)

Parameter	Steel Rebar	GFRP Rebar
Material Cost	₹ X	20-30% lower
Labor & Installaion	₹ X	20-30% lower
Maintenance over 10 years	₹ X	Nil
Transport cost	₹ X	75% lower

Actual savings range between **20% to 35%** depending on project size and environment.

Why EkoBar GFRP Stands Above the Rest



Superior Raw Materials

Crafted using high-grade E-glass fibers and resins, EkoBar GFRP ensures enhanced durability and consistent performance in demanding conditions.



Exceptional Tensile Strength

With a tensile strength of ≥ 1000 MPa, EkoBar outperforms typical GFRP products (700–1000 MPa range), making it ideal for high-load applications.



Certified and Compliant

Manufactured under strict quality standards — ISO 9001 certified, ASTM D7957 compliant, and BIS approved — EkoBar provides reliability you can trust.



Cost-Effective, Value-Driven

Priced **20-35%** lower than TMT bars, EkoBar offers real savings without compromising quality. Our after-sales technical team includes in-house engineers and consultants for expert support throughout your project.



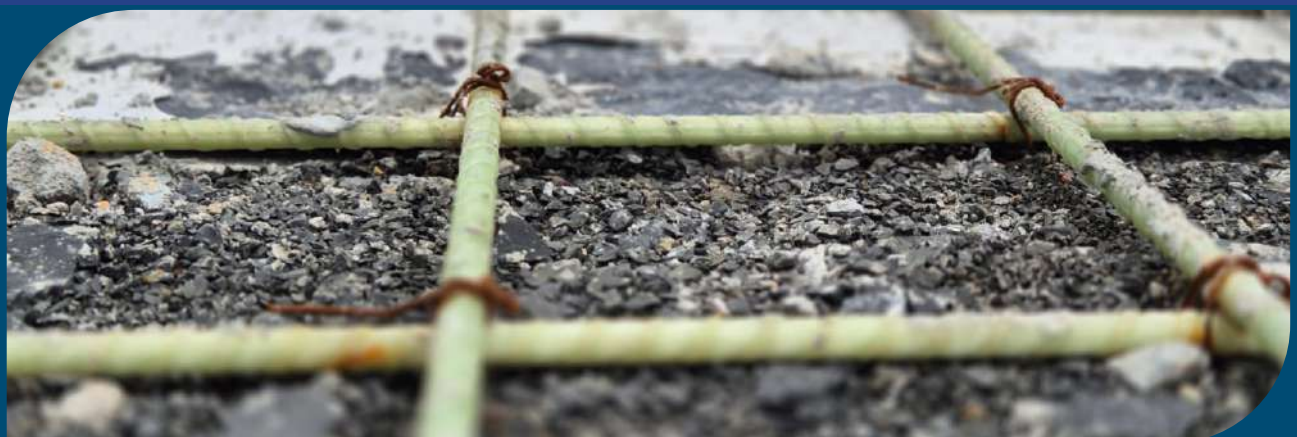
Custom Sizes & Finishes

Available in diameters from 3mm to 50mm and precision-cut to meet your exact project specifications — flexibility that fits your project needs.



Proven Track Record

EkoBar GFRP is trusted and deployed in major infrastructure projects, including those under NHAI (National Highways Authority of India), showcasing its credibility and performance at scale.



Suitable for...



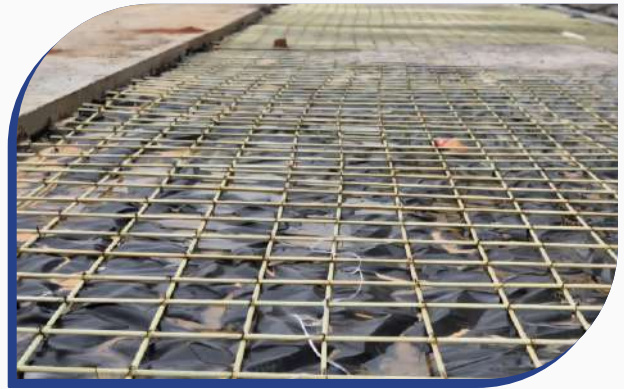
Warehouse Project



Precast



Crash Barriers



Concrete Road



Retaining Wall



Drain



Sewage / Water Treatment Plants



Swimming Pool



Pavements



MRI rooms

About ZippMat

Founded in 2021, ZippMat was born out of a bold vision: to eliminate delays, inefficiencies, and high costs in supply chains - while delivering innovative, eco-conscious products made from repurposed materials.

What began as a small team has grown into a dynamic group of 50+ professionals, all driven by a shared mission:

**Faster deliveries. Smarter systems. Lower costs.
Greener alternatives.**



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