REBARMAT

REBARMAT PRO 8mm CE

GFRP REBAR FOR FUTURE INFRASTRUCTURE

REBARMAT PRO 8mm C

Resilience Redefined:

Durable, Corrosion-Resistant & Cost-Effective Structures!









REBARMAT rebars are lightweight high-performance reinforcement bars offering superior strength, durability, and cost-effectiveness compared to traditional reinforcement bars. Specifically engineered for demanding applications, they provide exceptional mechanical stability and superior corrosion-resistance.

REBARMAT® PRO CHARACTERISTICS*

Tensile Strength

≥ 1100 MPa

Modulus of elasticity

≥ 50 **GPa**

Compressive strength

≥ 550 MPa

Rebar density

2,2 g/cm³

Bond strength, Concrete C20/25

≥ 10 MPa

Service Life

100 years

^{*} Test reports available on request



REBARMAT® PRO advantages



Economy

Switching from traditional metal rebar to modern GFRP alternatives can cut overall costs by as much as 50%.



Strength & Reliability

Tensile strength three times greater than that of traditional steel reinforcement bars.



Sustainable & Durable

Superior resistance to chemicals and corrosion, providing a service life of up to 100 years—significantly outlasting metal reinforcement.



Non conductive

Fiberglass rebar does not cause radio interference, magnetize, or conduct electricity.



Easy shipping

The reduced weight of rebar allows for easy transportation, whether in a car trunk for residential use or in an HGV for larger-scale projects.



Easy installation

The lighter weight and easy handling of rebar simplify and speed up the installation process for your projects.

CO2 Neutral

REBARMAT GFRP rebars are produced with a CO2-neutral footprint, achieved through the integration of renewable energy in the manufacturing process. This sustainable innovation positions us as a leading choice for eco-conscious construction projects, reflecting our commitment to advancing environmentally responsible building solutions.





REBARMAT GFRP rebars are manufactured using an energy-efficient process that substantially lowers the carbon footprint compared to traditional steel reinforcement production.

Durability and Longevity

GFRP rebars provide exceptional corrosion resistance, significantly extending the lifespan of concrete structures while reducing the frequency of repairs or replacements. This durability minimizes material waste and energy use over time, reinforcing their importance in sustainable construction practices.



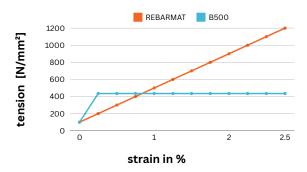


COMPARISON WITH METAL REBARS B500

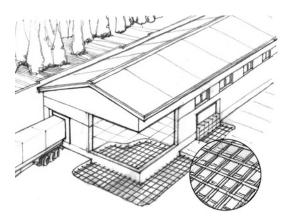
Steel rebar B500		REBARMAT® PRO	
Nominal diameter *	Tensile force	Nominal diameter *	Tensile force
9 mm	32kN	6 mm	36kN
12 mm	56kN	8 mm	60kN
14 mm	77kN	10 mm	93kN
18 mm	127kN	12 mm	141kN



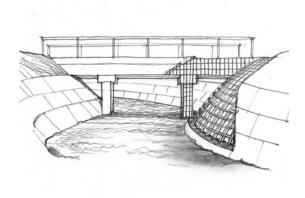
D1 - nominal diameter



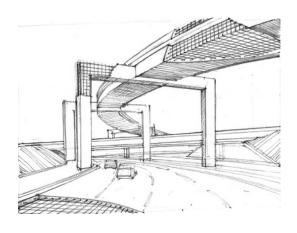
REBARMAT® PRO USE CASES



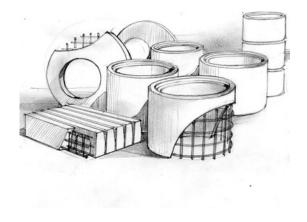
Reinforcement of foundations and floors



Shore and water object reinforcement



Road and bridge construction



Precast technology

Rebar's high tensile strength makes it suitable for diverse applications, such as ground-level construction, floor screeds, foundations, roads, sidewalks, and retaining structures.

NOTE: Rebar has a low melting point. Take it into consideration during planning phase of your project.



PRODUCTION

Produced in our 2,000 m² facility in Latvia with 15 years of expertise, REBARMAT® manufactures CE-marked GFRP rebars certified under EAD 260023-00-0301—the first European standard for GFRP reinforcement. Our production process, powered by solar energy and utilizing high-quality European materials, ensures minimal environmental impact. The lightweight design of GFRP rebars further reduces transportation emissions and simplifies on-site handling, contributing to a significantly lower carbon footprint across their lifecycle.

Our strength lies in our independence from external disruptions, sustained through the exclusive use of European materials sourced from trusted partners. Combined with eco-friendly, solar-powered operations, our facility delivers a production capacity of 6,500,000 meters of composite rebar annually, ensuring reliable supply for diverse construction needs.



USE CASES

REBARMAT is setting new standards in building driveways, patios, sidewalks, curbs, industrial floors, parking lots and many other concrete functions that surround us.

Packaging



Standard bar length

1-12m, other - on request



Meters Per Pallet (coils)

Up to 6500m



Standard Coil Size

800mm, 1000mm, 1300mm



Bar diameter

6mm - 24mm



Standard Length Coils

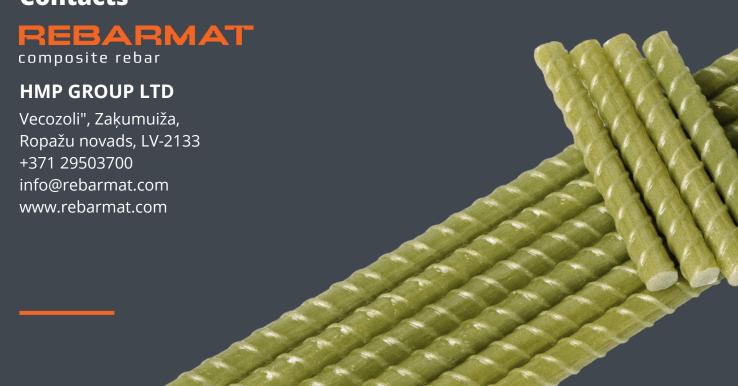
50m, 100m, other - on request



Bars Per Pack

Up to 500pcs

Contacts



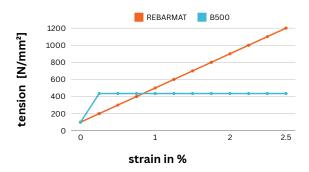


COMPARISON WITH METAL REBARS B500

Steel rebar B500		REBARMAT® PRO	
Nominal diameter *	Tensile force	Nominal diameter *	Tensile force
8 - 10 mm	25kN - 39kN	6 mm	36kN
10 mm - 12 mm	39kN - 56kN	8 mm	60kN
12 mm - 16 mm	56kN - 100kN	10 mm	93kN
16 mm - 20 mm	100kN - 157kN	12 mm	141kN



D1 - nominal diameter





FRP REBARMAT® PRO REBARS AND STEEL REBARS

Parameters	REBARMAT® PRO	Other FRP rebar manufacturers	Steel rebar B500
Nominal diameter (Core diameter)	8 mm	6,5 - 8 mm	8 mm
Nominal cross sectional area	53,60 mm2	48-51 mm2	50 mm2
Weight	0,112 kg/m	0,086 – 0,110 kg/m	0,420 kg/m
Tensile Strength, MPa	≥ 1100 MPa	800 – 1100 MPa	500 MPa
Young's modulus (N/mm2)	≥50,000	45,000 – 50,000	200,000
Tensile force (kN)	60,7 kN	48 - 55 kN	25,14 kN