

**MAIN ADVANTAGES**



Dielectricity and antimagnetism



Eco friendly



Easy assembly



Low weight



High tensile strength



Corrosion resistance

**APPLICATION**

Our materials are perfect for construction and geotechnical applications such as: foundation slabs, industrial floors, parking lots and manoeuvring yards, diaphragm walls, retaining walls, concrete bridge slabs, for reinforcing and strengthening tram slabs, pavement slabs, for prefabricated concrete elements, as reinforcement of embankment and road transmission layers, for reinforcing tram and railway slabs and tracks; GFRP rebars are used in tunnel works as temporary reinforcement for TBM (tunnel boring machine), as ground anchors, etc.



**DIMENSIONS**

Mesh in rolls	Mesh in sheets	Rebars
<b>Bar diameter:</b> 2,2 mm, 3 mm, 4 mm, 5 mm	<b>Bar diameter:</b> 5 mm, 6 mm, 8 mm	<b>Bar diameter:</b> 6 mm - 18 mm
<b>Roll width:</b> 15 m, 2 m.	<b>Sheet dimensions:</b> 1,4 m x 4 m, 2 m x 3 m	<b>Coiled rods length:</b> 150 m - 350 m
<b>Length of mesh on a roll:</b> 25 mb, 50 mb		



The product has a National Technical Assessment with a positive assessment of its performance characteristics.

We offer professional technical advice and efficient execution of each order placed.

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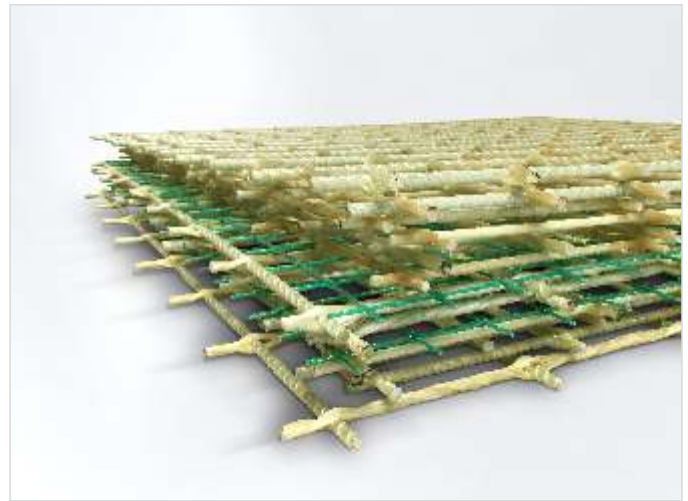
High tensile strength



Corrosion resistance

## ADVANTAGES OF COMPOSITE REINFORCEMENT

- **18% cheaper storage** (bars from 6 mm to Ø 12 mm inclusive can be packed in coils from 150 to 350 m, which minimises the need for overlapping and waste), and also facilitates transport
- **4 times lighter construction** (compared to steel bars of the same diameter)
- **2,5 times more tensile strength** (compared to steel bars)
- **full resistance to corrosion, aggressive and difficult environments**
- **dielectricity and antimagnetism**
- **concrete structures reinforced with composite bars or meshes** do not require subsequent maintenance, repairs or renovations, which meets the requirements of design taking into account the life cycle cost (LCC)
- **in the production of GFRP materials, CO<sup>2</sup> emissions are almost 10 times lower** and the carbon footprint is minimal



## COMPARISON OF COMPOSITE AND STEEL TECHNOLOGY

Material	Steel	Composite
1. Tensile strength [Rm]	440-550	1000 - 1100
2. Elastic modulus [MPa]	200000	55000
3. Coefficient of linear thermal expansion [%]	10-25	2,2
4. Corrosion resistance	corrodes	complete resistance to corrosion
5. Thermal conductivity	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Electrical conductivity	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Manufactured diameters [mm]	6-80	4-30
8. Length [M.]	sections 6 or 12	coiled rods with a length of 50
9. Ecology	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Lifespan	as per standars	min 100 years