

Why Choose GFRP-Tech's Flagship EnviraBar?

Innovative Strength for Modern Construction - Reshaping Reinforcement

Introducing GFRP EnviraBar—an advanced alternative to conventional steel reinforcement, designed to redefine strength in concrete structures. With a tensile strength starting at 850 MPa and reaching beyond 1500 MPa, EnviraBar vastly outperforms traditional steel, which typically offers only 450 MPa. This enhanced strength allows for greater flexibility in design specifications.

Lightweight and Cost-Efficient

EnviraBar's lightweight composition—just a quarter of conventional steel—simplifies handling and reduces transportation costs, resulting in a cleaner, more efficient application. Additionally, EnviraBar contributes to lower CO₂ emissions and offers the significant advantage of being non-corrosive, making it an ideal choice for enduring infrastructure projects.

Precision Manufacturing

At GFRP-Tech, we supply, cut, and bend GFRP materials to meet the latest industry standards, performing regular quality checks to ensure we exceed customer requirements.

Standard Specifications

EnviraBar matches the standard diameters and lengths of traditional reinforcing steel, ensuring easy integration into existing designs:

- **Conventional Steel Comparison:** Standard tensile steel (SANS 920:2011 - 450 MPa), denoted by "Y," with deformed bars available in diameters of 8, 10, 12, 16, 20, 25, and 32 mm.
- **GFRP EnviraBar Advantage:** EnviraBar matches these sizes, but with a tensile strength 3 to 5 times greater than steel, delivering superior performance in design calculations.

Standard Lengths: Available in 12 m and 13 m lengths, with custom sizes tailored to project specifications.

Note: Special diameters, lengths, and strength specifications are available upon request.

