GFRP Rebar — Technical Data Sheet

NANTONG ZEALL (ZeAllgrate) · glass-fibre reinforced polymer composite rebar · indicated typical values for preliminary design. Confirm every figure against the factory test report and the order drawing.

1. Standard diameter range (typical values)

Nominal diameter (mm)	6	8	10	12	16	20	25

Diameters listed are the standard stocked / produced range; other sizes on request.

2. Mechanical and physical properties (typical values)

Property	Typical value
Tensile strength	650 – 1,100 MPa
Elastic modulus	55 – 65 GPa
Density	1.7 – 2.0 g/cm<super>3</super>
Coefficient of thermal expansion (CTE)	1.5 – 3 x 10<super>-6</super> / °C

3. Geometry and installation notes

Item	Typical value
Minimum bending radius	3 – 6 x bar diameter (db)
Lap length	40 – 60 x bar diameter (db), per project design

4. Surface finish and resin system

Surface finish	Grit (sand-coated) surface / wound (ribbed) surface / smooth surface — selected to suit bond and application
Resin system	Isophthalic polyester / vinyl ester / epoxy — selected according to the chemical medium and exposure conditions

5. Reference standards

ASTM D7957	Standard specification for solid glass fiber-reinforced polymer composite bars for concrete reinforcement
CSA S807	Fibre-reinforced polymers
ISO 10406-1	Fibre-reinforced polymer (FRP) reinforcement of concrete — test methods

6. Quality and certification statement

ISO 9001	GB/T19001-2000 idt ISO9001:2000 · registration 01708Q11888R0S
Third-party reports	We do not claim any SGS test report and do not claim any other third-party product certification, other than the ISO 9001 registration number shown above.

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