

Product Specification for [fiberglass angle](#)

Parameter	Details
Material Composition	Resin: Isophthalic polyester/vinyl ester Reinforcement: E-glass fiber mats + multidirectional rovings Surface Treatment: UV-stabilized gel coat with anti-slip additives
Leg Length Range	50–200 mm (standard) Customizable up to 300 mm for structural applications
Leg Thickness	5–20 mm (adjustable based on load requirements)
Radius of Bend	5–15 mm (inner radius for corner reinforcement)
Tensile Strength	650–1,050 MPa (varies with fiber layup and resin formulation)
Flexural Strength	500–850 MPa
Compressive Strength	300–550 MPa
Chemical Resistance	Resistant to acids (H <sub>2</sub> SO <sub>4</sub> , HCl), alkalis (NaOH), hydrocarbons, and seawater
Temperature Range	Continuous: -50°C to +130°C Short-term peak: +160°C
Fire Retardancy	ASTM E-84 Class A (flame spread ≤25) UL94 HB compliant
Weight	1.7–2.3 g/cm <sup>3</sup> (60–70% lighter than steel)
Certifications	ISO 9001, ASTM D3918, DNV/GL marine standards, RoHS compliance
Color Options	Standard: Light Gray, Dark Green, Sandstone Customizable: RAL colors
Surface Texture	Smooth, grit-coated, or ribbed for enhanced grip