

# Global Carbon Fiber Construction Repair Market Size Study & Forecast, by Type (Rebar, Fabric, Plate) by Application (Residential & Commercial Building, Infrastructure, Industrial) and Regional Forecasts 2025-2035

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## Abstracts

The Global Carbon Fiber Construction Repair Market is estimated at USD 0.12 billion in 2024 and is projected to expand at a CAGR of 10.0% over the forecast period 2025–2035. Carbon fiber construction repair materials are engineered to provide enhanced strength, corrosion resistance, and longevity in structural applications, serving as advanced solutions for repairing and reinforcing concrete, steel, and other building materials. These materials, available in forms such as rebar, fabric, and plates, are increasingly utilized to restore structural integrity, prevent deterioration, and extend the lifecycle of aging infrastructure. The market's momentum is propelled by rising urbanization, infrastructure modernization initiatives, and the urgent need to retrofit aging constructions while adhering to sustainability and safety standards.

The escalating emphasis on sustainable construction practices and resilience against environmental stressors is further accelerating adoption. Carbon fiber's lightweight yet high-strength characteristics enable engineers to reinforce structural elements without significant increase in load, thereby optimizing design efficiency. Furthermore, technological advancements in resin systems, bonding methods, and installation techniques are simplifying deployment and reducing labor costs, providing a compelling value proposition for residential, commercial, and industrial projects. Despite high material costs, growing regulatory support for resilient infrastructure is driving consistent market expansion.

**The detailed segments and sub-segments included in the report are:**

*Global Carbon Fiber Construction Repair Market Size Study & Forecast, by Type (Rebar, Fabric, Plate) by Applic...*

By Type:

Rebar

Fabric

Plate

By Application:

Residential & Commercial Building

Infrastructure

Industrial

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

Rest of Europe

Asia Pacific

China

India

Japan

South Korea

Australia

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

**Fabric Segment Expected to Dominate the Market**

Among product types, carbon fiber fabrics are expected to dominate the market, owing to their versatility, ease of installation, and suitability for reinforcing large surface areas such as walls, beams, and slabs. Fabrics offer uniform stress distribution and enhanced load-bearing capabilities while minimizing construction downtime. Rebar and plate products are also witnessing growing adoption in specific applications requiring localized reinforcement or heavy structural strengthening, highlighting a complementary growth trend across all types.

### **Rebar Segment Leads in Revenue Contribution**

From a revenue perspective, carbon fiber rebars currently generate the highest market share due to their widespread use in infrastructure projects, bridges, and commercial buildings where high tensile strength and corrosion resistance are critical. Fabric and plate segments, while smaller in revenue, are expanding rapidly in retrofit applications and industrial facilities, reflecting the diverse opportunities within the market.

North America captured the largest market share in 2025, driven by extensive infrastructure networks, stringent building codes, and the early adoption of advanced construction materials. Europe follows closely, with demand fueled by renovation projects, seismic retrofitting, and smart-city initiatives. Asia Pacific is projected to witness the fastest growth during 2025–2035, driven by rapid urbanization, industrial expansion, and large-scale infrastructure development in countries such as China and India. Latin America and the Middle East & Africa are gradually increasing their market presence, supported by government-funded construction upgrades and growing awareness of resilient building solutions.

### **Major market players included in this report are:**

SGL Carbon SE

Hexcel Corporation

Mitsubishi Chemical Corporation

Toray Industries, Inc.

Gurit Holding AG

Owens Corning

3B-The Fiberglass Company

Zoltek Companies, Inc.

Cytec Solvay Group

Formosa Plastics Corporation

Teijin Limited

SIGRAFIL GmbH

DowAksa Advanced Composites

Nippon Carbon Co., Ltd.

Saint-Gobain Performance Plastics

#### Global Carbon Fiber Construction Repair Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments and countries in recent years and to forecast the values for the coming years. The report incorporates both qualitative and quantitative analysis of the industry across the included countries. It provides actionable insights into drivers, restraints, and emerging opportunities, along with a comprehensive evaluation of competitive dynamics and product portfolios of leading players, supporting informed investment and strategic decisions.

**Key Takeaways:**

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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