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US Glass Fiber Reinforced Plastic Composites (GFRP) for Bridge Construction Market Size and Forecasts (2020 - 2030), Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: By Resin Type (Epoxy, Vinyl Ester, Polyester, and Others), Technology (Injection Molding, Filament Winding, Spray-up, Pultrusion, Compression Molding, Resin Infusion, and Others), Bridge Type (Vehicular Bridge, Railway Bridge, and Pedestrian Bridge), and Application (Deck and Decking Components, Bridge Railings, Approach Slabs, and Others)

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Abstracts

The US glass fiber reinforced plastic composite (GFRP) for bridge construction market accounted for US$ 86.64 million in 2022 and is expected to reach US$ 134.40 million by 2030; the market is estimated to record a CAGR of 5.6% from 2022 to 2030.

Glass fiber reinforced plastic composites are made from materials, including glass fiber; resins such as epoxy, vinyl ester, polyester, and others; additives; modifiers; and others. Glass fiber reinforced plastic composites are used to construct different types of bridges, such as vehicular bridges, railway bridges, and pedestrian bridges. The composites have advantages such as mechanical strength, lightweight, high durability, high resistance, and others. The high strength and low weight of composites make them an attractive material for the construction industry.

Based on application, the US glass fiber reinforced plastic composite (GFRP) for bridge

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construction market is segmented into deck and decking components, bridge railings, approach slabs, and others. The deck and decking components segment accounted for the largest the US glass fiber reinforced plastic composite (GFRP) for bridge construction market share in 2022. Deck is a crucial component of bridge infrastructure, as it provides a road surface for vehicles, pedestrians, and cyclists. It supports the weight of vehicles, pedestrians, and other loads. Bridge decks are constructed from various materials, such as steel, concrete, and composite materials. Construction of a bridge involves consideration of bridge span length, type of traffic, and environmental conditions, which further influence the choice of construction material. Decking components include stringers, beams, girders, and utilities. Girders and beams are structural components supporting the deck, as these components transfer load from the deck to the substructure of the bridge.

Bridge construction companies, and engineers utilize GFRP composites to enhance or add capacity to existing bridge structures as well as for new construction. GFRP installation in bridge construction is achieved by adhering to guidelines published by the US Department of Transportation Federal Highway Administration. The organizations recognize GFRP composite bridge decks, rebars and other structures as lightweight and corrosion resistant solutions for new construction projects. The government of the US is highly focused on the development of infrastructure for easy commute, safety of residents and reducing traffic congestion. In April 2023, the US Department of Transportation’s Federal Highway Administration declared US$ 300 million investment for 9 bridge projects for rural and urban areas in several states of the country. The investment includes repair, replacement and rehabilitation of bridges across the country.

Dextra Asia Co Ltd, Enduro Composites Inc, Ensinger GmbH, Exel Composites Oyj, Jiangsu Chemlead New Material Co Ltd, Krempel GmbH, Owens Corning, Rochling SE & Co KG, Tencom Ltd, and Strongwell Corp are among the players operating in the US glass fiber reinforced plastic composite (GFRP) for bridge construction market. Players operating in the US glass fiber reinforced plastic composite (GFRP) for bridge construction market focus on providing high-quality products to fulfill customer demand. Also, they focus on adopting various strategies such as new product launches, partnerships, and collaborations to stay competitive in the market.

The overall US glass fiber reinforced plastic composite (GFRP) for bridge construction market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants

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to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the US glass fiber reinforced plastic composite (GFRP) for bridge construction market.

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