

Construction Composites Market worth \$13.45 billion by 2030 - Exclusive Report by 360iResearch

The Global Construction Composites Market to grow from USD 7.48 billion in 2022 to USD 13.45 billion by 2030, at a CAGR of 7.60%.

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EINPresswire.com/ -- The "[Construction Composites Market](#) by Resin (Polyester, Polyethylene, Polypropylene), Fiber Type (Carbon Fibers, Glass Fibers, Natural Fibers), Application - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.



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Construction composites refer to materials that are a combination of two or more unique constituents having enhanced properties. Construction composites offer superior strength, durability, and lightweight characteristics compared to traditional materials such as steel, aluminum, and concrete. Construction composites are used in architectural applications for cladding and roofing purposes and in civil infrastructure to build pipes, tanks, and towers. Global urbanization trends have driven the demand for new infrastructure projects that require durable materials with extended service life in harsh environmental conditions. Additionally, the increasing adoption of green building practices and smart building initiatives creates opportunities for environmentally friendly composite products made from renewable raw materials or recycled content. However, high initial production and installation costs of

construction composites can be a barrier to entry for smaller construction projects. Additionally, the susceptibility of construction composites to adverse environmental factors can hinder the adoption of the materials in certain regions. Major players are constantly investing efforts to improve construction composite materials to tackle such challenges. Continuous advancements in material science technology that result in the development of innovative composite formulations tailored to specific application requirements present newer avenues of opportunities for construction composite manufacturers.

Application: Need for materials that can withstand extreme conditions in industrial settings
Commercial applications of construction composites primarily focus on office buildings, retail centers, hotels, and other commercial properties. These structural buildings require composites that offer advanced durability, aesthetics, energy efficiency, and ease of maintenance. Industrial applications encompass manufacturing plants, warehouses, and power generation facilities, among others, where safety, corrosion resistance, and fire resistance are crucial factors driving the need-based preference for composites. Public applications mainly involve infrastructure projects such as bridges, roads, public transportation systems, and recreational facilities. The key preferences in this segment are focused on long service life and low maintenance costs. The residential segment includes single-family homes, apartment buildings, and condominiums, where priorities are mainly centered on thermal insulation, aesthetics, strength-to-weight ratio and cost-effectiveness.

Fiber type: Growing preference for natural and biodegradable fibers in construction projects
Carbon fibers are known for their high strength-to-weight ratio, stiffness, and resistance to corrosion and fatigue, making them a preferred choice for numerous construction applications that require enhanced structural reinforcement. Carbon fiber is widely utilized for the construction of bridge load-bearing structures, carbon fiber cables, and decks and for refurbishing existing structures, such as roads and bridges. Glass fibers have been widely adopted in the construction sector due to their high tensile strength, resistance to chemicals and corrosion, and cost-effectiveness compared to carbon fibers. Natural fibers have recently gained popularity in construction composites due to their eco-friendly nature, lower weight than synthetic counterparts, biodegradability, and lower embodied energy. These fibers are extracted from plant-based sources such as coir, sisal, flax, straw, jute, and cane and are used in various construction applications.

Resin: Beneficial properties of polyester construction composites for various applications
Polyester refers to a synthetic resin in which the polymer units are joined together by an ester functional group. Polyester composites are used in civil infrastructure applications due to their high strength-to-weight ratio. Polyethylene construction composite is made up of the monomer ethylene and is known for its excellent impact resistance and durability. Polypropylene refers to a thermoplastic polymer characterized by toughness, flexibility, lightweight, and heat resistance. Vinyl ester resins containing a methacrylate monomer are particularly effective in construction composites due to their high resistance to water, chemicals, and corrosion. They are often employed in applications such as piping systems, chemical storage tanks, and marine structures.

that demand a long service life and minimal maintenance.

Regional Insights:

In Asia, there is a high demand for construction composites due to the increase in infrastructure development projects such as residential buildings, highways, bridges, and tunnels, which drives the use of composite materials. Government initiatives to promote energy-efficient green buildings contribute to the adoption of advanced composite materials in Asian markets. Asia has significant global production for composites by volume, with China and India being major players. Asian manufacturers are quickly strengthening their positions, driven by regional demand and cost advantages. America's more mature industry holds a significant share of global consumption due to its developed infrastructure sector. Americas have established factories producing numerous types of polymeric matrix composites. Europe has a well-established market for construction composites thanks to its strong focus on sustainability and energy efficiency. In terms of innovation and R&D, Europe demonstrates strong capabilities in the development of advanced construction composites. In Europe, companies emphasize innovation and sustainability within their products while adhering to strict EU regulations.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Construction Composites Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Construction Composites Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Construction Composites Market, highlighting leading vendors and their innovative profiles. These include 3A Composites, Advanced Environmental Recycling Technologies, Inc., Airex AG, Avient Corporation, BASF SE, Compagnie de Saint-Gobain S.A., Construction Composites Limited, DuPont de Nemours, Inc., Euroresins International GmbH, Exel Composites PLC, Gurit Services AG, Hexcel Corporation, Huntsman International LLC, Hyosung Corporation, Johns Manville, LAMILUX Heinrich Strunz Holding GmbH & Co. KG, LANXESS AG, LyondellBasell Industries N.V., Mar-Bal, Inc., Mitsubishi

Chemical Corporation, Owens Corning, PPG Industries, Inc., Scott Bader Company Ltd., SGL Carbon, Solvay S.A, Strongwell Corporation, Teijin Limited, Toray Industries, Inc., Trex Company, Inc., and UPM-Kymmene Corporation.

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Market Segmentation & Coverage:

This research report categorizes the Construction Composites Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Resin, market is studied across Polyester, Polyethylene, Polypropylene, and Vinyl Ester. The Vinyl Ester is projected to witness significant market share during forecast period.

Based on Fiber Type, market is studied across Carbon Fibers, Glass Fibers, and Natural Fibers. The Glass Fibers is projected to witness significant market share during forecast period.

Based on Application, market is studied across Commercial, Industrial, Public, and Residential. The Residential is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Europe, Middle East & Africa commanded largest market share of 38.13% in 2022, followed by Asia-Pacific.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Construction Composites Market, by Resin
7. Construction Composites Market, by Fiber Type
8. Construction Composites Market, by Application
9. Americas Construction Composites Market

10. Asia-Pacific Construction Composites Market
11. Europe, Middle East & Africa Construction Composites Market
12. Competitive Landscape
13. Competitive Portfolio
14. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Construction Composites Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Construction Composites Market?
3. What is the competitive strategic window for opportunities in the Construction Composites Market?
4. What are the technology trends and regulatory frameworks in the Construction Composites Market?
5. What is the market share of the leading vendors in the Construction Composites Market?
6. What modes and strategic moves are considered suitable for entering the Construction Composites Market?

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