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China Bio-based Construction Materials Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The China Bio-based Construction Materials Market was valued at USD 6.4 billion in 2024 and is estimated to grow at a CAGR of 7.2% to reach USD 12.8 billion by 2034.

This growth is largely driven by China's increasing dedication to sustainability in construction, with bio-based materials gaining strong momentum due to their low carbon impact and renewable nature. These materials—sourced from organic resources like natural fibers, bio-polymers, and plant-based compounds—are becoming an essential part of green building strategies. With the government emphasizing carbon neutrality and environmentally responsible development, developers and construction companies are becoming more conscious of the long-term benefits of sustainable building solutions. This shift is being supported by favorable regulations, rapidly growing urban areas, and rising public awareness about environmental impact.

The Ministry of Housing and Urban-Rural Development continues to emphasize global standards and sustainability in urban infrastructure, fueling the transition toward eco-friendly building materials. Green construction is becoming a standard rather than a trend, with demand escalating from both developers and consumers across residential and commercial segments. Southern China is seeing particularly fast expansion, thanks to urbanization, infrastructure projects, and proactive government support promoting bio-based building practices. These combined dynamics are creating the right climate for bio-based construction solutions to thrive.

The wood-based materials segment generated USD 1.3 billion in 2024. These products remain favored for their long-standing role in traditional construction, along with their mechanical strength, versatility, and ease of integration into standard building

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frameworks. China continues to lead globally in the import of industrial wood resources, including fibreboard, sawnwood, plywood, and particleboard. The consistent rise in imports highlights the strong demand for wood-based alternatives in structural and design elements across residential and commercial builds.

The structural applications segment held a 39.8% share in 2024. Structural-grade bio-based materials are foundational to the construction sector in China, where strength, durability, and sustainability converge. Engineered wood, bio-composites, and green concrete alternatives are gaining serious traction, driven by rising interest in reducing the environmental footprint of major infrastructure projects. These materials offer excellent performance for load-bearing components, and their adoption is encouraged by construction codes that now lean heavily toward sustainable materials.

Eastern China Bio-based Construction Materials Market generated USD 2.2 billion in 2024, attributed to concentrated urban growth and an active construction pipeline that spans residential, commercial, and public infrastructure. The area benefits from advanced production hubs, strong supply chains, and higher awareness about sustainable building among developers. Eastern China's booming metropolitan zones—especially high-growth urban centers—are supporting continuous retrofitting and greenfield development, further increasing demand for bio-based solutions.

Key companies active in the China Bio-based Construction Materials Market include Dasso Group, Covestro, Mitsui Chemicals, Suzano, Holcim, China Resources Cement Holdings Limited, Tangshan Jidong Cement Co., Ltd., Huaxin Cement Co., Ltd., and China National Building Material Company Limited. These firms are playing a central role in advancing sustainable building technologies across the country. To secure long-term dominance in the China bio-based construction materials market, leading companies are heavily focused on product innovation, sustainability integration, and localized manufacturing. Players such as Holcim, Dasso Group, Mitsui Chemicals, and Suzano are investing in R&D to develop high-performance, durable, and low-emission materials tailored for modern construction needs. Companies like Covestro and China National Building Material are also aligning their offerings with China’s strict environmental regulations and green construction guidelines.

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