

Global Market Shift Toward Sustainable Materials Drives Demand for Carbonized Bamboo Decking

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EINPresswire.com/ -- The global building and construction sector is experiencing a notable shift toward sustainable, lower-impact materials as environmental responsibility becomes a central requirement across commercial and residential projects. Against this backdrop, [Fujian Golden Bamboo Industry Co., Ltd.](#), established in 2011 in Nanjing town, Zhangzhou city—a region known for its strong bamboo resources—has continued its development of outdoor bamboo materials under the REBO® brand. With a focus on resource efficiency and environmental considerations, the company manufactures strand woven bamboo products, including its carbonized bamboo decking, now increasingly supplied to international markets through global shipping.



The broader construction industry is in a period of adjustment as traditional material options encounter new challenges. Hardwoods, which require decades to mature, face mounting scrutiny due to deforestation concerns. Chemically treated anti-rot woods also raise questions regarding long-term ecological impact. Meanwhile, composite options such as Wood-Plastic Composites (WPC) have gained popularity for their stability, yet doubts persist regarding their recyclability, long-term environmental footprint, and aesthetic limitations.

This evolving landscape provides momentum for bamboo-based outdoor materials. Bamboo is among the world's fastest-renewing natural resources, generally reaching maturity within four to five years. Its rapid growth cycle makes it suitable for large-scale applications where sustainable

sourcing is essential. In addition, the processes of densification and carbonization used in strand woven bamboo significantly improve the material's structure, resulting in high density and improved stability.

Several industry trends continue to influence the uptake of carbonized bamboo decking:

Growing Demand for Durable Natural Materials

Developers and end-users increasingly seek materials that maintain a natural appearance while enduring harsh climates, UV exposure, and frequent use. Strand woven bamboo offers a combination of density and structural reliability that allows it to serve as an alternative to both WPC and traditionally processed anti-rot wood.

Higher Health and Safety Requirements

Stricter expectations regarding formaldehyde emissions have pushed the industry toward materials that meet low-emission standards such as E1. Fire performance classifications, including Bfl-s1, and slip-resistance ratings have also become essential for public facilities, hospitality environments, and school projects, where safety standards cannot be compromised.

Life-Cycle Considerations and Carbon Reduction Efforts

Construction companies are increasingly evaluating the environmental performance of materials across their life cycle. Bamboo, due to its growth rate and ability to contribute to carbon sequestration, aligns closely with the goals of reducing ecological impact and supporting long-term carbon management initiatives.

Within this context, carbonized strand woven bamboo has gained recognition as a viable option for outdoor structures where durability, environmental value, and long service life are required.

Fujian Golden Bamboo Industry Co., Ltd. maintains a consistent presence at major international and domestic industry exhibitions, reflecting its intention to engage with global markets and exchange knowledge on bamboo-based materials.

DOMOTEX HANNOVER and DOMOTEX ASIA/CHINAFLOOR

These trade fairs serve as major platforms within the global flooring and materials sectors. By participating in both events, the company presents its carbonized bamboo decking to distributors, architects, and project developers from Europe and Asia. These exhibitions allow for direct feedback, performance benchmarking, and discussion of regional market requirements.

The Canton Fair

As one of China's largest and longest-running trade events, the Canton Fair offers extensive access to international buyers across regions including North America, Europe, the Middle East, Australia, Asia, and South America. Participation in the fair assists the company in maintaining and expanding its overseas market presence and in supporting project-based procurement.

Research Collaboration with the International Centre for Bamboo and Rattan

In addition to trade events, long-term material development remains a core component of the company's operations. The collaboration with institutions such as the International Centre for Bamboo and Rattan contributes to ongoing research focused on material optimization, durability improvement, and performance stability. The R&D team—comprised of researchers, designers, and technicians—continues to integrate scientific advancements into manufacturing processes. To date, the company has obtained a broad portfolio of national invention and utility model patents, which reflect continuous refinements in strand woven bamboo production.

The strand woven bamboo decking manufactured under the REBO brand is developed with a focus on stability, safety, and suitability for extended outdoor exposure. The material has undergone multiple standardized tests and has achieved several technical classifications that support its use in demanding environments.

Durability and Certification Overview

Durability Class 1: This classification indicates high resistance to fungal and insect activity, contributing to long material lifespan.

Use Class 4 (EN 335): This designation confirms suitability for direct ground contact or prolonged moisture exposure.

Fire Reaction Class Bfl-s1: A key requirement for many public and commercial environments, indicating restricted flame spread and low smoke generation.

Formaldehyde Emission E1: Compliance with low-emission standards supports healthier indoor and outdoor environments.

Slip Resistance Certification: This property is especially relevant for settings exposed to rain or humidity, such as parks, pool decks, or waterfront facilities.

Application Scenarios and Project Examples

Due to its structural strength and climatic adaptability, carbonized bamboo decking is used across various public, commercial, and residential contexts.

Public and commercial spaces, including parks, hotel walkways, and school outdoor platforms, often select bamboo decking for its combination of durability and natural appearance. One example includes its installation in an EU coastal resort, where the decking was chosen to replace earlier timber materials that performed poorly in high-humidity conditions.

Residential users adopt the material for garden terraces, patio flooring, and balcony surfaces, where low maintenance and uniform appearance are preferred.

Beyond decking, the company also manufactures bamboo-based wall cladding, horse stable panels, beams, joists, and fencing materials, supporting additional architectural and structural applications.

Through its combination of research-driven development, certifications, and broad applicability, the company contributes to the wider use of bamboo as a practical option in sustainable construction.

To explore additional information about carbonized bamboo decking and related outdoor materials, please visit the official website:

<https://www.goldenbamboo.cn/>

Fujian Golden Bamboo Industry Co., Ltd

Fujian Golden Bamboo Industry Co., Ltd

+86 181 5071 6576

oliver@fjgoldenbamboo.com

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