

Treated Wood Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product Type (Pressure-treated wood, Fire-retardant treated wood, Borate-treated wood, Creosote-treated wood, Oil-borne treated wood), By Wood Type (Softwood, Hardwood), By Application (Residential, Commercial, Industrial, Agricultural, Marine), By Region & Competition, 2020-2030F

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Abstracts

Market Overview

The Global Treated Wood Market was valued at USD 5.85 billion in 2024 and is expected to reach USD 8.74 billion by 2030 with a CAGR of 6.76% during the forecast period.

The Treated Wood Market refers to the industry focused on manufacturing, distributing, and utilizing wood that has been chemically or physically treated to enhance its durability, resistance to decay, insects, moisture, and fire. Treated wood is commonly used in outdoor and structural applications such as decking, fencing, framing, utility poles, marine construction, and landscaping. The treatment process involves infusing preservatives like copper-based compounds, fire retardants, or borates into the wood through methods such as pressure treatment or chemical soaking. This process significantly extends the life span of wood products, making them suitable for demanding environmental conditions.

The Treated Wood Market is poised for steady growth, driven by rising global

construction activities, especially in the residential and infrastructure sectors. Increasing demand for affordable and long-lasting building materials, particularly in regions prone to harsh weather conditions, is boosting the use of treated wood. The product's widespread application in decks, pergolas, agricultural fences, and railway sleepers continues to expand as consumers and developers prioritize materials that offer both structural performance and cost-effectiveness. Moreover, the growing popularity of outdoor living spaces, especially in North America and Europe, is further fueling demand for treated wood in landscaping and recreational construction.

Key Market Drivers

Growing Demand for Durable and Weather-Resistant Construction Materials

The Treated Wood Market is experiencing significant growth due to the increasing demand for durable and weather-resistant construction materials across residential, commercial, and infrastructure projects. Treated wood, chemically processed to resist moisture, insects, and fungal decay, is widely used in applications such as decking, fencing, utility poles, and structural components, offering a cost-effective alternative to materials like steel or concrete. Its enhanced durability extends the lifespan of structures, reducing maintenance costs and appealing to developers seeking long-term value.

Rapid urbanization, particularly in emerging economies like India, Brazil, and Southeast Asia, has driven construction activities, boosting the need for reliable materials that withstand diverse environmental conditions. In residential settings, treated wood is favored for outdoor applications like patios, pergolas, and siding, where exposure to rain, UV rays, and pests is a concern. Commercial projects, including warehouses and retail spaces, utilize treated wood for its strength and affordability in non-load-bearing structures. The material's versatility also extends to infrastructure projects like bridges, railway ties, and marine applications, where resistance to harsh conditions is critical.

In developed markets like North America and Europe, the trend toward sustainable construction has increased the adoption of treated wood sourced from certified forests, aligning with environmental standards like FSC (Forest Stewardship Council) certification. Additionally, advancements in treatment technologies, such as non-toxic preservatives and eco-friendly processes, enhance the material's appeal in green building initiatives. The global rise in home improvement projects, driven by increasing disposable incomes and consumer interest in outdoor living spaces, further fuels demand for treated wood. As construction activities expand and environmental

regulations tighten, the Treated Wood Market benefits from the material's ability to deliver durability, cost-efficiency, and sustainability, positioning it for sustained growth across diverse applications.

In 2024, global construction spending reached USD11.8 trillion, with 35% allocated to durable materials. Treated wood accounted for 20% of outdoor construction applications globally. In North America, 60% of residential decking projects in 2023 used treated wood, driving a 15% market increase. Emerging economies saw a 12% rise in infrastructure projects, with treated wood used in 40% of utility pole installations, contributing to a 10% market growth.

Key Market Challenges

Environmental and Regulatory Constraints on Chemical Treatments

One of the most significant challenges confronting the Treated Wood Market is the increasing scrutiny of the environmental and health impacts associated with wood treatment chemicals. Traditional preservatives, such as chromated copper arsenate, creosote, and pentachlorophenol, have long been under regulatory pressure due to their toxicity and potential risks to human health and the environment. Many of these chemicals have been either banned or severely restricted in key markets such as the European Union, North America, and parts of Asia, compelling manufacturers to seek alternative treatment solutions. While newer treatment formulations such as copper azole and alkaline copper quaternary are considered safer, they often come with higher production costs and shorter lifespan, affecting their competitiveness in price-sensitive markets.

Furthermore, environmental regulations such as the United States Environmental Protection Agency's wood preservative guidelines, and the European Union's REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) legislation, continue to evolve, creating uncertainty for manufacturers regarding compliance standards. These regulatory frameworks impose not only strict limits on chemical composition but also mandate labeling, documentation, and safe handling requirements throughout the supply chain. As a result, smaller market players may struggle to adapt due to resource constraints, reducing competition and innovation in the industry.

Public perception is another layer of challenge, as environmentally conscious consumers are increasingly rejecting chemically treated wood in favor of more sustainable alternatives such as composite materials, thermally modified wood, or

recycled plastic lumber. This shift in consumer preference could further suppress demand unless treated wood manufacturers proactively invest in environmentally responsible innovations and transparent communication regarding product safety. Therefore, while regulations are designed to protect public and environmental health, they also impose a considerable compliance and innovation burden that may restrict the growth potential of the Treated Wood Market.

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they also impose a considerable compliance and innovation burden that may restrict the growth potential of the Treated Wood Market.

Key Market Players

West Fraser Timber Co. Ltd.

Weyerhaeuser Company

Georgia-Pacific LLC

Universal Forest Products, Inc. (UFP Industries)

Stella-Jones Inc.

Lonza Group AG (now Arxada)

Koppers Inc.

Green Treated Wood Products Inc.

Shuqualak Lumber Co.

Mets? Wood

Report Scope:

In this report, the Global Treated Wood Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Treated Wood Market, By Product Type:

Pressure-treated wood

Fire-retardant treated wood

Borate-treated wood

Creosote-treated wood

Oil-borne treated wood

Treated Wood Market, By Wood Type:

Softwood

Hardwood

Treated Wood Market, By Application:

Residential

Commercial

Industrial

Agricultural

Marine

Treated Wood Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Treated Wood Market.

Available Customizations:

Global Treated Wood Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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