

Transparent Wood Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

Market Report | 2024-11-25 | 220 pages | Global Market Insights

AVAILABLE LICENSES:

- Single User \$4850.00
- Multi User \$6050.00
- Enterprise User \$8350.00

Report description:

The Global Transparent Wood Market reached a value of USD 115 million in 2023 and is projected to expand at a compound annual growth rate (CAGR) of over 7.3% from 2024 to 2032. This growth is fueled by the increasing demand for sustainable and eco-friendly materials in industries like construction, automotive, and electronics. Transparent wood is gaining popularity due to its biodegradability and lower carbon footprint, positioning it as a promising alternative to traditional materials such as glass, plastic, and metal.

In terms of wood type, balsa wood led the market with a revenue of approximately USD 50 million in 2023 and is expected to grow at a CAGR of 7.6% from 2024 to 2032. Known for being one of the lightest and most buoyant woods, balsa wood is a top choice for producing transparent wood. Its light weight makes it easy to handle, transport, and apply, especially in industries like automotive and construction, where weight reduction is a key factor. Additionally, balsa wood's high porosity plays an important role in its processing. This porosity allows for the efficient removal of lignin essential in making the wood transparent while preserving its strength and durability.

In terms of application, the building and construction sector accounted for nearly 38% of the transparent wood market in 2023, and it is expected to grow at a CAGR of 7.6% from 2024 to 2032. As more stringent environmental regulations and green building standards are implemented, there is a growing shift toward sustainable materials in construction. Transparent wood's renewable and biodegradable qualities make it an attractive option for meeting these environmental goals. Its lower carbon footprint compared to traditional building materials further enhances its appeal. The increasing focus on sustainable construction is driving the adoption of transparent wood in eco-friendly building projects.

In the U.S., the transparent wood market exceeded USD 34 million in 2023 and is projected to grow at a CAGR of 7.7% from 2024 to 2032. Government policies and regulations that promote sustainability, such as the Green Building Standards, are encouraging the use of renewable materials in construction. Transparent wood fits well within these initiatives, thanks to its energy-efficient

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

properties and minimal environmental impact, making it an increasingly popular choice in the U.S. construction market.

Table of Contents:

Report Content

Chapter 1 Methodology & Scope

1.1 Market scope & definitions

1.2 Base estimates & calculations

1.3 Forecast calculations

1.4 Data sources

1.4.1 Primary

1.4.2 Secondary

1.4.2.1 Paid sources

1.4.2.2 Public sources

Chapter 2 Executive Summary

2.1 Industry synopsis, 2021-2032

Chapter 3 Industry Insights

3.1 Industry ecosystem analysis

3.1.1 Factor affecting the value chain

3.1.2 Profit margin analysis

3.1.3 Disruptions

3.1.4 Future outlook

3.1.5 Manufacturers

3.1.6 Distributors

3.2 Supplier landscape

3.3 Profit margin analysis.

3.4 Key news & initiatives

3.5 Regulatory landscape

3.6 Impact forces

3.6.1 Growth drivers

3.6.1.1 Growing demand for green building materials

3.6.1.2 Innovation In solar energy applications

3.6.2 Industry pitfalls & challenges

3.6.2.1 High production costs

3.7 Growth potential analysis

3.8 Porter's analysis

3.9 PESTEL analysis

Chapter 4 Competitive Landscape, 2023

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

Chapter 5 Market Estimates & Forecast, By Wood Type, 2021-2032 (USD Million) (Million/Square Feet)

5.1 Key trends

5.2 Balsa wood

5.3 Birch wood

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.4 Pine wood
- 5.5 Oak wood
- 5.6 Others (Basswood, Poplar, Etc)
- Chapter 6 Market Estimates & Forecast, By Transparency Type, 2021-2032 (USD Million) (Million/Square Feet)
- 6.1 Key trends
- 6.2 Fully transparent wood
- 6.3 Translucent wood
- Chapter 7 Market Estimates & Forecast, By Application, 2021-2032 (USD Million) (Million/Square Feet)
- 7.1 Key trends
- 7.2 Windows and skylights
- 7.3 Solar cells
- 7.4 Structural materials
- 7.5 Lighting panels
- 7.6 Furniture
- 7.7 Packaging materials
- 7.8 Others (Interior Partitions, Etc)
- Chapter 8 Market Estimates & Forecast, By End Use, 2021-2032 (USD Million) (Million/Square Feet)
- 8.1 Key trends
- 8.2 Building and construction
- 8.3 Automotive and transportation
- 8.4 Electronics
- 8.5 Consumer goods
- 8.6 Others (Healthcare, Etc)
- Chapter 9 Market Estimates & Forecast, By Distribution Channel, 2021-2032 (USD Million) (Million/Square Feet)
- 9.1 Key trends
- 9.2 Direct
- 9.3 Indirect
- Chapter 10 Market Estimates & Forecast, By Region, 2021-2032 (USD Million) (Million/Square Feet)
- 10.1 Key trends
- 10.2 North America
 - 10.2.1 U.S.
 - 10.2.2 Canada
- 10.3 Europe
 - 10.3.1 UK
 - 10.3.2 Germany
 - 10.3.3 France
 - 10.3.4 Italy
 - 10.3.5 Spain
 - 10.3.6 Russia
- 10.4 Asia Pacific
 - 10.4.1 China
 - 10.4.2 India
 - 10.4.3 Japan
 - 10.4.4 South Korea
 - 10.4.5 Australia
- 10.5 Latin America
 - 10.5.1 Brazil

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

10.5.2 Mexico

10.6 MEA

10.6.1 UAE

10.6.2 Saudi Arabia

10.6.3 South Africa

Chapter 11 Company Profiles

11.1 Aalto University

11.2 Alfa Aesar (Thermo Fisher Scientific)

11.3 Gurit Holding AG

11.4 Oak Ridge National Laboratory (USA)

11.5 Sappi Lanaken Mill (Sappi Group)

11.6 Stora Enso

11.7 Sumitomo Forestry Co., Ltd.

11.8 Tennessee Technological University

11.9 TreeTom (China)

11.10 UFP Technologies

11.11 University of Maryland (USA)

11.12 VTT Technical Research Centre of Finland

11.13 Woodoo

11.14 Xiamen Kandi Wood Co., Ltd.

□

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Transparent Wood Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

Market Report | 2024-11-25 | 220 pages | Global Market Insights

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

| Select license | License | Price |
|----------------|-----------------|-----------|
| | Single User | \$4850.00 |
| | Multi User | \$6050.00 |
| | Enterprise User | \$8350.00 |
| | | VAT |
| | | Total |

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

| | | | |
|---------------|----------------------|-------------------------------|---|
| Email* | <input type="text"/> | Phone* | <input type="text"/> |
| First Name* | <input type="text"/> | Last Name* | <input type="text"/> |
| Job title* | <input type="text"/> | | |
| Company Name* | <input type="text"/> | EU Vat / Tax ID / NIP number* | <input type="text"/> |
| Address* | <input type="text"/> | City* | <input type="text"/> |
| Zip Code* | <input type="text"/> | Country* | <input type="text"/> |
| | | Date | <input type="text" value="2026-03-10"/> |
| | | Signature | |

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

