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Global Leading Market Report Publisher

Thermally Modified Wood Boards Industry Research Report 2026

Industry	Published	Pages	Format
Chemical & Material	2025-12-29	124	PDF

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Description

Thermally Modified Wood is referring to a wood which is modified by a controlled pyrolysis process. In this process, the wood is heated up to 180°Celcius, in the absence of oxygen. This process helps the chemical to change its cell structure of cell wall components in the wood in order to increase its durability. During this process, the low oxygen content prevents the wood from burning even at the high temperature. There are five thermal modification processes: Thermowood, Retification Process, Les Bois Perdure, Plato Process, and Oil Heat Treatment.

Thermal modification uses heat to remove organic compounds from the wood cells, so it will not absorb water, expand, contract, or provide nourishment for insects or fungi. The high heat produces a naturally durable wood that is permanently resistant to water, insects, and decay. Because the wood is not absorbing chemicals to be treated, but rather removing moisture, the wood is lightweight.

Thermally modified lumber is also more dimensionally stable because it is less susceptible to cupping and warping. The wood has increased heat resistance and weather resistance as well. When properly maintained, it will not chip, rot, or warp over the years. Many products offered in this category are rated for 20 or 25 years of exterior use.

This thermally modified wood is eco-friendly since harsh chemicals are never used in the development of this product. Unlike pressure-treated lumber, it will not corrode metals. As previously mentioned, it is also dimensionally stable with incredible durability.

Since thermally modified wood does not absorb or hold moisture as it would prior to treatment, species that typically do not perform well in outdoor or wet environments can now be used in a variety of applications, such as decking, siding, or flooring. It can also be used in environments that are less stable in moisture content, such as basements (with proper sub-flooring).

Currently, there are many players in the market of Thermally Modified Wood, Stora Enso, Thermory AS, Oy Lunawood Ltd, Oy SWM-Wood Ltd and Thermoarena OÜ are playing important roles in Thermally Modified Wood Boards industry. Top three players took 44% market value share in 2019, the market is not so concentrated for now and is seeing to be more dispersed.

Report Scope

This report quantifies the global Thermally Modified Wood Boards market in revenue (US$ million) and, where applicable, sales volume (m3), using 2025 as the base year and providing annual historical and forecast data for 2021–2032.

It standardizes definitions of types and applications, harmonizes vendor attribution, and presents comparable time series by company, type, application, and region/country, including indicative price bands (US$/m3) and concentration ratios (CR5/CR10).

The outputs are intended to support strategy development, budgeting, and performance benchmarking for manufacturers, new entrants, channel partners, and investors; the report also reviews technology shifts and notable product introductions relevant to Thermally Modified Wood Boards.

Key Companies & Market Share Insights

This section profiles leading manufacturers, combining 2021–2025 results with a 2026–2032 outlook. It reports revenue, market share, price bands, product and application mix, regional and channel mix, and key developments (M&A, capacity additions, certifications). It also provides global revenue, average price, and—where applicable—sales volume by manufacturer, and calculates CR5/CR10 and rank changes to support comparative benchmarking.

Thermally Modified Wood Boards Market by Company

Arbor Wood

Oy Lunawood Ltd

Oy SWM-Wood Ltd

Stora Enso

Thermory AS

Cambia by NFP

Timura Holzmanufaktur GmbH

Novawood

Kärävä Oy

Thermoarena OÜ

Bingaman & Son Lumber, Inc.

AHC Hardwood Group

Thermally Modified Wood Boards Segment by Type

Thermo-S

Thermo-D

Thermally Modified Wood Boards Segment by Application

Commercial

Residential

Thermally Modified Wood Boards Segment by Region

North America

United States

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Spain

Netherlands

Switzerland

Sweden

Poland

Asia-Pacific

China

Japan

South Korea

India

Australia

Taiwan

Southeast Asia

South America

Brazil

Argentina

Chile

Middle East & Africa

Egypt

South Africa

Israel

Türkiye

GCC Countries

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Thermally Modified Wood Boards market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of Thermally Modified Wood Boards and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market

5. This report helps stakeholders to gain insights into which regions to target globally

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Thermally Modified Wood Boards.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1:

Research objectives, research methods, data sources, data cross-validation;

Chapter 2:

Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so

on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3:

Detailed analysis of Thermally Modified Wood Boards manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4:

Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5:

Production/output, value of Thermally Modified Wood Boards by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6:

Consumption of Thermally Modified Wood Boards in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7:

Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8:

Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9:

Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10:

Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11:

The main points and conclusions of the report.

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