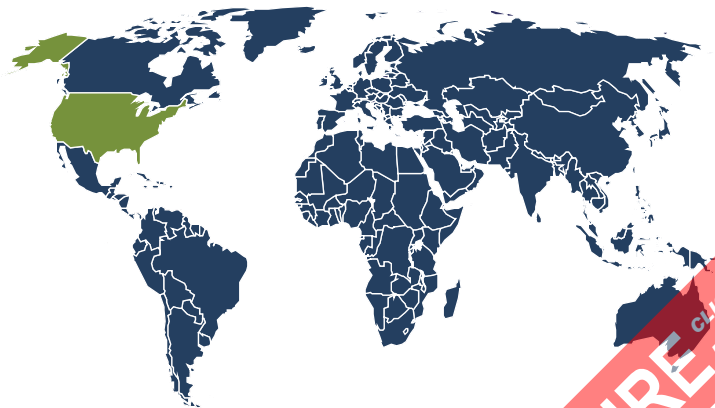




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US Collection

Wood-Plastic Composite & Plastic Lumber: United States

September 2020



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About This Report

Scope

This report forecasts to 2024 US wood-plastic composite (WPC) and plastic lumber demand in nominal US dollars at the manufacturer level. Total demand is segmented by application in terms of:

- decking
- moulding and trim
- fencing
- windows and doors
- landscaping and other outdoor applications
- other applications such as railroad ties, hot tubs, marine, and flooring

Total demand is also segmented by market as follows:

- residential
- commercial
- nonbuilding construction
- agricultural

To illustrate historical trends, total demand is provided in annual series from 2009 to 2019; the various segments are reported at five-year intervals for 2009, 2014, and 2019.

This report does not address applications for plastic lumber in which plastics (primarily vinyl) are not in competition with wood or in which they have already attained substantial market share. Applications falling under these categories include plastic siding, extruded plastic windows and doors, plastic playground equipment not competing with traditional lumber, vinyl patio furniture, and vinyl flooring. Cellulose-resin products, such as plywood, strawboard, and oriented strand board, are also excluded from demand considerations for WPC lumber.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading companies, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Wood-Plastic Composite & Plastic Lumber: United States (FF60033) is based on [WPC & Plastic Lumber](#), a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

About This Report

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 5 | NAICS & SIC Codes Related to Wood-Plastic Composite & Plastic Lumber

NAICS/SCIAN 2017		SIC	
North American Industry Classification System		Standard Industrial Classification	
325211	Plastics Material & Resin Manufacturing	2821	Plastics Materials, Synthetic Resins, & Nonvulcanizable Elastomers Plastics Products, NEC
326199	All Other Plastics Product Manufacturing	3089	Plastics Products, NEC

Source: US Census Bureau

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global

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data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Resources

The Freedonia Group

WPC & Plastic Lumber

Freedonia Industry Studies

Building Envelope in North America

Commercial Roofing

Commercial Windows & Doors

Fencing

Global Flooring

Global Housing

Global Pools & Spas

Global Roofing

Global Siding (Cladding)

Global Windows & Doors

Landscaping Products

Low-Slope Roofing

Moulding & Trim

Outdoor Living Products 2020

Prefabricated Housing

Residential Roofing

Residential Windows & Doors in the US

Roofing

Siding

Window & Door Components

Windows & Doors

Wood & Competitive Decking

Wood Panels

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Commercial Building Construction: United States

Commercial Roofing: United States

Construction: United States

Housing: United States

Precast Architectural Building Components: United States

Residential Roofing: United States

Roofing: United States

Wood Decking: United States

Wood Fencing: United States

Freedonia Custom Research

Trade Publications

Builder

Home Channel News

Journal of Light Construction

Plastic News

Professional Remodeler

Agencies & Associations

American Fence Association

Moulding & Millwork Producers Association

National Association of Home Builders

North American Deck & Railing Association

Southern Forest Products Association

Stairbuilders and Manufacturers Association

United States Census Bureau

United States Department of Agriculture

United States International Trade Commission

Vinyl Institute

Wood Component Manufacturers Association

Wood Products Manufacturers Association

World Millwork Alliance