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US Collection

Wood-Plastic Composite Decking: United States

February 2020



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About This Report

Scope

This report forecasts to 2023 US wood-plastic composite decking demand in lineal feet. Total demand is segmented by type in terms of:

- wood-polyethylene
- other wood-plastic composites such as polyvinyl chloride and polypropylene

Total demand is segmented by market as follows:

- residential buildings
- commercial buildings
- nonbuilding

Total demand is also segmented by surface treatment:

- capstock-coated
- uncoated

To illustrate historical trends, total demand is provided in annual series from 2008 to 2018; the various segments are reported at five-year intervals for 2008, 2013, and 2018.

Decks are defined as unroofed, floored areas that are attached to the exterior of a structure. Typically, they are located at the rear of a building. This report encompasses deck boards, which are used to make the floor of the deck, as well as railing systems (consisting of a top rail, spindles, and bottom rail) and other built-in accessories, such as stairs, benches, and planter boxes. Decking demand numbers do not include structural components of decking systems (e.g., posts and joints).

Competitive products to decking, which are excluded from the scope of this report, include:

- balconies, which are platforms protruding from an upper story of a building – either cantilevered or supported from below
- patios, which are ground-level, paved outdoor areas located at the rear of a structure and can be either uncovered or shaded
- porches, which can be open-sided, screened, or glass-enclosed; are also raised off the ground; and are typically roofed – porches are often located at the front of a building, although they can also wrap around an entire building

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 Decking: United States (FF60078) is based on *Wood & Competitive Decking*, 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:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental and non-governmental organizations
- 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 6 | NAICS & SIC Codes Related to Wood-Plastic Composite Decking

NAICS/SCIAN 2017		SIC	
North American Industry Classification System		Standard Industrial Classification	
325211	Plastics Material & Resin Manufacturing	2821	Plastics Materials, Synthetic Resins, & Nonvulcanizable Elastomers
326199	All Other Plastics Product Manufacturing	3089	Plastics Products, Not Elsewhere Classified

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

About This Report

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 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

Wood & Competitive Decking

Freedonia Industry Studies

Global Housing

Global Roofing

Global Siding (Cladding)

Global Windows & Doors

Landscaping Products

Low-Slope Roofing

Outdoor Furniture & Grills Market in the US

Outdoor Kitchen Equipment Market in the US

Paint & Coatings: US Market Forecasts

Roofing

Roofing Underlay Market in the US

Sheds & Other Residential Outdoor Storage

Siding

Windows & Doors

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Construction: United States

Fencing: United States

Fiber-Reinforced Plastic Composites: United States

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Polyvinyl Chloride: United States

Prefabricated Housing: United States

Residential Roofing: United States

Roofing: United States

Thermoplastic Resins: United States

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Professional Deck Builder

Agencies & Associations

International Code Council

National Association of Home Builders

North American Deck & Railing Association

Plastic Lumber Trade Association

Plastics Industry Association

United States Census Bureau

United States International Trade Commission