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# Windows & Doors: United States

September 2017



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# About This Report

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## Scope & Method

This report forecasts US window and door demand and shipments in US dollars at the manufacturers' level to 2021. Total demand is segmented by product in terms of:

- metal windows
- wood windows
- plastic windows
- metal doors
- wood doors
- plastic doors.

For the purposes of this report, the value of installed glazing is included in the demand estimates for all window products, with the exception of curtain wall, which includes only the framing materials. Windows with multiple openings (eg, bay and bow types) that are sold as one unit are considered one window. Wood windows include only those products in which all the framing components (eg, jambs, sills, stiles, rails, and mullions) are made of wood. This segment includes wood windows with metal or plastic cladding.

Demand excludes the value of features added between the manufacturer and end user, eg, door hanging and finishing not offered by the door slab manufacturer. The value of installed glazing, sidelites, and/or transoms is included if sold by the manufacturer as part of the framed door system. Excluded are doors for automobiles or other transportation equipment, cabinets, fencing gates, shower doors and bathroom stall doors, elevator doors, pet doors, molding and trim, and separately sold replacement hardware (eg, knobs, locks, doorstops, hinges, and garage door openers). However, the value of these products is included in the scope when sold as part of an integrated new door unit.

Engineered wood products include those manufactured from particleboard, plywood, medium density fiberboard (MDF), and laminated veneer lumber (LVL). The wood segment includes wood doors clad with metal or plastic materials, but which have a wood interior.

Import totals exclude components (eg, vinyl profiles) imported by domestic manufacturers for use in the assembly of their products. Windows and doors classified as “energy efficient” are products that meet current **ENERGY STAR** criteria.

Total demand is also segmented by market as follows:

- new residential
- residential improvement & repair

## About This Report

- new commercial
- commercial improvement & repair.

To illustrate historical trends, total demand is provided in annual series from 2006 to 2016; shipments and the various segments are reported at five-year intervals for 2006, 2011, and 2016.

This report 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.

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

## Sources

*Windows & Doors: United States* (FF60041) is based on [Windows & Doors Market in the US](#), 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 including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international 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 | Industry Codes Related to Windows & Doors

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
321911	Wood window & door manufacturing	2431	Millwork
332321	Metal window & door manufacturing	3089	Plastic products, NEC
326199	All other plastics product manufacturing	3442	Metal doors, sash, frames, molding, & trim manufacturing

Source: US Census Bureau

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## Resources

### The Freedonia Group

*Windows & Doors Market Forecasts*, September 2017

*Doors Market in the US*, August 2017

*Windows Market in the US*, June 2017

### Freedonia Industry Studies

*Electronic Security Products*, September 2017

*Fiber-Reinforced Plastic Composites Market in the US*, January 2017

*Prefabricated Housing Market in the US*, January 2017

*Molding & Trim in the US*, November 2016

*World Flat Glass*, August 2016

*World Insulation*, July 2016

*Wood-Plastic Composite & Plastic Lumber*, May 2016

*Insulation*, September 2015

*Specialty Films*, August 2015

*World Housing*, July 2015

*World Windows & Doors*, July 2015

### Freedonia Focus Reports

*Construction: United States*

*Doors: United States*

*Fabricated Metal Products: United States*

*Housing: United States*

*Insulation: United States*

*Molding & Trim: United States*

*Nonresidential Building Construction: United States*

*Prefabricated Housing: United States*

*Thermoplastic Resins: United States*

*Window Coverings: United States*

*Windows: United States*

*Wood Millwork: United States*

### Freedonia Custom Research

### Trade Publications

*Door and Window Market Magazine*

*Glass Magazine*

*The Journal of Light Construction*

*Metal Architecture*

*Metal Construction News*

## About This Report

*Plastics News*

*Professional Remodeler*

*Window & Door*

### **Agencies & Associations**

American Architectural Manufacturers Association

American National Standards Institute

Florida Green Building Coalition

Green Building Initiative

International Code Council

National Association of Home Builders

National Fenestration Rating Council

United States Census Bureau

United States Department of Energy

United States Environmental Protection Agency

United States Green Building Council

United States International Trade Commission

Window and Door Manufacturers Association