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Windows:

United States

June 2017



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Table of Contents

1. Highlights	3
2. Market Environment	5
Historical Trends	5
Key Economic Indicators	7
Supply & Foreign Trade	8
Environmental & Regulatory Factors	10
Building Codes	10
Industry Standards & Specifications	10
Green Building Certification Programs	10
Other Environmental Considerations	11
3. Segmentation & Forecasts	12
Materials	12
Plastic	13
Wood	14
Metal	15
Markets	18
New Residential	19
Residential Improvement & Repair	20
New Commercial	21
Commercial Improvement & Repair	21
4. Industry Structure	23
Industry Characteristics	23
Market Share	24
Andersen Corporation	25
Ply Gem Holdings	26
Pella Corporation	26
5. About This Report	27
Scope & Method	27
Sources	28
Industry Codes	28
Resources	29

List of Tables & Figures

Figure 1 Key Trends in the US Window Market	4
Figure 2 US Window Demand Trends, 2006-2016	6
Table 1 Key Indicators for US Window Demand; 2006, 2011, 2016, 2021 (US\$ bil)	7
Table 2 US Window Supply & Demand; 2006, 2011, 2016, 2021 (US\$ mil)	8
Figure 3 US Window Demand by Material; 2006, 2011, 2016, 2021 (US\$ mil)	12
Table 3 US Window Demand by Material; 2006, 2011, 2016, 2021 (US\$ mil)	12
Figure 4 US Window Demand by Material; 2006, 2011, 2016, 2021 (%)	17
Figure 5 US Window Demand by Market; 2006, 2011, 2016, 2021 (US\$ mil)	18
Table 4 US Window Demand by Market; 2006, 2011, 2016, 2021 (US\$ mil)	18
Figure 6 US Window Demand by Market; 2006, 2011, 2016, 2021 (%)	22
Figure 7 US Window Market Share by Company, 2016	24
Table 5 Leading Suppliers to the US Window Market by Principal Product Line	25
Table 6 Industry Codes Related to Windows	28

About This Report

Scope & Method

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

- plastic
- wood
- metal.

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. Import totals exclude components (eg, vinyl profiles) imported by domestic window manufacturers for use in the assembly of their products. Also for the purposes of this report, windows classified as “energy efficient” are windows that meet current **Energy Star** criteria. 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.

Total demand is also segmented by market as follows:

- new residential
- residential improvement and repair
- new commercial
- commercial improvement and 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.

About This Report

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: United States (FF60100) is based on *Windows 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

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
321911	Wood Window and Door Mfg	2431	Millwork
326199	All Other Plastics Product Mfg	3089	Plastics Products, NEC
332321	Metal Window and Door Mfg	3442	Metal Doors, Sash, Frames, Molding, and Trim Mfg

Source: US Census Bureau

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Resources

The Freedonia Group

Windows Market in the US, June 2017

Freedonia Industry Studies

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 Insulation, July 2016

Wood-Plastic Composite & Plastic Lumber, May 2016

Mechanical Security Products, February 2016

Insulation, September 2015

Electronic Security Products, October 2015

Specialty Films, August 2015

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Fabricated Metal Products: United States

Housing: United States

Insulation: United States

Molding & Trim: United States

Nonresidential Building Construction: United States

Prefabricated Housing: United States

Residential Windows & Doors: United States

Thermoplastic Resins: United States

Window Coverings: United States

Wood Millwork: United States

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Door and Window Market Magazine

Glass Magazine

The Journal of Light Construction

Metal Architecture

Metal Construction News

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