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# Flat Glass

March 2018



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# About This Report

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## Scope & Method

This report forecasts to 2021 global demand for flat glass by market in square meters and nominal US dollars at the manufacturer level, and by major world region in US dollars.

Reported markets encompass:

- residential buildings
- nonresidential buildings
- motor vehicle original equipment manufacturer (OEM)
- motor vehicle aftermarket
- other markets such as solar energy, electronic display screens, and aerospace equipment glass

Major world regions include North America, Western Europe, Asia/Pacific, and all other regions.

To illustrate historical trends, world, market, and regional demand (including market segments) are provided for 2006, 2011, and 2016. Finally, global production in square meters is segmented by major world region and provided for 2006, 2011, 2016, and 2021.

Production data reflect primarily float glass, but also include sheet glass, rolled glass, plate glass, and specialty types of flat glass such as patterned glass.

Fabricated flat glass includes both basic glass as well as processed and value-added products such as laminated, tempered, and insulating glass. Thus, the dollar values presented per square meter of flat glass in each region include the inherent value added by fabrication.

This report quantifies trends in terms of compound annual growth rates (CAGRs), which, by definition, employ in their calculation only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the trend beginning in the base year and ending in the forecast year. Forecasts are developed via the identification and analysis of pertinent statistical relationships and other historical trends and events, as well as their expected impact over the forecast period. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

For any given historical year, US dollar amounts are obtained from values expressed in the applicable local currency. These local currency values are converted to US dollars at the average annual exchange rate for that year. For forecast years, the US dollar amounts assume the same annual exchange rate at that prevailing in 2016.

## About This Report

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

*Global Flat Glass* (FW60062) is based on 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 9 | Industry Codes Related to Flat Glass

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
327211	Flat Glass Mfg	3211	Flat Glass
327215	Glass Product Mfg Made of Purchased Glass	3231	Glass Products, Made of Purchased Glass
423390	Other Construction Material Merchant Wholesalers	5039	Construction Materials, NEC

Source: US Census Bureau

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## Resources

### The Freedonia Group

*Global Flat Glass Market*, March 2018

### Freedonia Industry Studies

*Siding Market in the US*, January 2018

*Global Windows & Doors*, December 2017

*Insulation Market in the US*, December 2017

*Global Housing Outlook*, October 2017

*World Industrial Silica Sand*, October 2016

*World Insulation*, July 2016

### Freedonia Focus Reports

*Construction: United States*

*Flat Glass: United States*

*Global Housing*

*Global Windows & Doors*

*Insulation: United States*

*Motor Vehicles: United States*

*Nonresidential Building Construction: United States*

*Prefabricated Housing: United States*

*Recovered Glass: United States*

*Windows & Doors: United States*

### Freedonia Custom Research

### Trade Publications

*Glass International*

*Glass Magazine*

*USGlass*

### Agencies & Associations

British Glass Manufacturers' Confederation

Eurostat

Federal State Statistics Service (Russia)

Flat Glass Manufacturers Association of Japan

Glass Alliance Europe

Glass for Europe

Instituto Brasileiro de Geografia e Estatística

Instituto Nacional de Estadística y Geografía (Mexico)

International Monetary Fund

## About This Report

Ministry of Economy, Trade and Industry (Japan)  
National Glass Association  
Organisation for Economic Co-operation and Development  
Statistics Canada  
Statistisches Bundesamt (Destatis – Germany)  
UN Comtrade  
United States Census Bureau  
United States International Trade Commission  
World Bank