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# Precast Structural Building Components: United States

July 2018



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# About This Report

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## Scope & Method

This report forecasts to 2022 US precast structural building component demand in nominal US dollars at the manufacturer level. Total demand is segmented by product in terms of:

- precast concrete slabs
- prefabricated building systems
- structural supports
- precast foundations
- other products such as stairs, steps, and ramps

Total demand is also segmented by market as follows:

- commercial
- residential
- other markets such as agricultural and nonbuilding

To illustrate historical trends, total demand is provided in annual series from 2007 to 2017; the various segments are reported at five-year intervals for 2007, 2012, and 2017.

Excluded from the scope of this report are site-poured concrete; concrete blocks, bricks, and pavers; and concrete pipe.

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

*Precast Structural Building Components: United States* (FF60082) is based on [Precast Concrete Products 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 5 | NAICS & SIC Codes Related to Precast Structural Building Components

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
238110	Poured Concrete Foundation and Structure Contractors	1771	Concrete Work
238120	Structural Steel and Precast Concrete Contractors	1791	Structural Steel Erection
327390	Other Concrete Product Manufacturing	3272	Concrete Products, Except Block and Brick

Source: US Census Bureau

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## Resources

### The Freedonia Group

*Precast Concrete Products in the US*, July 2018

### Freedonia Industry Studies

*Siding Market in the US*, January 2018

*Global Windows & Doors*, December 2017

*Global Housing Outlook*, October 2017

*Global Hard-Surface Flooring*, September 2017

*Roofing: US Forecasts*, September 2017

*Windows & Doors Market Forecasts*, September 2017

*Global Flooring Market*, January 2017

*Roofing Underlay Market in the US*, November 2016

*Cement & Concrete Additives*, October 2016

*Fencing*, September 2016

### Freedonia Focus Reports

*Cement & Concrete Additives: United States*

*Construction: United States*

*Engineering Services: United States*

*Housing: United States*

*Nonresidential Building Construction: United States*

*Precast Concrete Products: United States*

*Prefabricated Housing: United States*

*Roofing: United States*

*Siding: United States*

### Freedonia Custom Research

### Trade Publications

*Ascent*

*Aspire*

*The Concrete Producer*

*Concrete Products*

*PCI Journal*

*Precast Inc.*

*Precast Solutions*

### Agencies & Associations

Architectural Precast Association

Cast Stone Institute

## About This Report

International Code Council  
National Precast Concrete Association  
Occupational Safety and Health Administration  
Precast/Prestressed Concrete Institute  
United States Census Bureau  
United States Green Building Council  
United States International Trade Commission