

# **Structural Truss Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Type (Simple Truss, Complex Truss), By Material (Steel, Aluminum), By Application (Residential Construction, Commercial Construction), By Load Type (Dead Load, Live Load), By Region, By Competition, 2020-2030F**

<https://marketpublishers.com/r/S3ECB368392AEN.html>

Date: June 2025

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: S3ECB368392AEN

## **Abstracts**

### Market Overview

The Global Structural Truss Market was valued at USD 5.98 Billion in 2024 and is projected to reach USD 8.91 Billion by 2030, growing at a CAGR of 6.71% during the forecast period. Structural trusses are integral frameworks composed of interconnected triangular units formed using straight elements—commonly wood, steel, or aluminum—that efficiently distribute weight and enhance structural integrity. These systems are widely utilized across residential, commercial, industrial, and infrastructure projects due to their ability to span large areas while minimizing material usage and construction time. With rising emphasis on efficient, sustainable construction solutions, trusses are increasingly adopted for their modularity, strength-to-weight advantages, and compatibility with modern design approaches such as prefabrication and green building practices.

### Key Market Drivers

#### Growing Demand for Sustainable and Prefabricated Construction Solutions

The structural truss market is witnessing substantial growth fueled by the rising

preference for sustainable and prefabricated construction approaches. Trusses made from wood and light-gauge steel are central to modular building systems, offering high structural strength with reduced material waste. These components are pre-manufactured in controlled factory settings, ensuring precision, reducing on-site labor requirements, and supporting faster construction timelines—all aligning with the global drive toward eco-conscious development. Sustainable forestry practices and the use of certified lumber have further boosted the appeal of timber trusses, especially in LEED-aligned projects. Moreover, favorable regulatory frameworks promoting energy-efficient and environmentally responsible construction continue to accelerate demand for prefabricated truss systems.

## Key Market Challenges

### Fluctuations in Raw Material Prices

A key challenge in the structural truss market lies in the instability of raw material costs, particularly for steel and timber. These materials are heavily influenced by global supply chain dynamics, including geopolitical events, trade regulations, and market demand volatility. Sudden price increases can disrupt procurement plans and compress profit margins, especially in projects with fixed budgets. This unpredictability complicates pricing strategies and poses risks to manufacturers and contractors alike. Moreover, material shortages or export restrictions can hinder timely production and delivery, impacting project schedules and increasing operational risk for stakeholders involved in large-scale or long-duration construction projects.

## Key Market Trends

### Increasing Adoption of Prefabricated and Modular Construction Techniques

The adoption of prefabricated and modular construction methods is a defining trend shaping the structural truss market. Off-site truss manufacturing ensures higher quality control, reduced waste, and faster project delivery compared to traditional on-site assembly. Trusses designed for modular systems help reduce framing time and streamline project execution, particularly in time-sensitive sectors such as residential housing, commercial developments, and infrastructure expansion. Enhanced coordination enabled by Building Information Modeling (BIM) further supports this trend by allowing accurate design and clash detection, ultimately improving efficiency. As the construction sector seeks greater scalability and sustainability, prefabricated truss systems continue to gain traction globally.

## Key Market Players

UFP Industries, Inc.

Simpson Manufacturing Co., Inc.

Severfield plc

Goodwin plc

Vallourec S.A.

Weyerhaeuser Company

Nucor Corporation

Gerdau S.A.

ITW Inc.

MiTek Industries, Inc.

## Report Scope:

In this report, the Global Structural Truss Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Structural Truss Market, By Type:

Simple Truss

Complex Truss

### Structural Truss Market, By Material:

Steel

Aluminum

### Structural Truss Market, By Application:

Residential Construction

Commercial Construction

### Structural Truss Market, By Load Type:

Dead Load

Live Load

### Structural Truss Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

## Asia-Pacific

China

India

Japan

Australia

South Korea

## South America

Brazil

Argentina

Colombia

## Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Structural Truss Market.

### Available Customizations:

Global Structural Truss Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
  - 2.5.1. Secondary Research
  - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
  - 2.6.1. The Bottom-Up Approach
  - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
  - 2.8.1. Data Triangulation & Validation

### **3. EXECUTIVE SUMMARY**

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

### **4. VOICE OF CUSTOMER**

### **5. GLOBAL STRUCTURAL TRUSS MARKET OUTLOOK**

- 5.1. Market Size & Forecast

- 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Type (Simple Truss, Complex Truss)
  - 5.2.2. By Material (Steel, Aluminum)
  - 5.2.3. By Application (Residential Construction, Commercial Construction)
  - 5.2.4. By Load Type (Dead Load, Live Load)
  - 5.2.5. By Region
- 5.3. By Company (2024)
- 5.4. Market Map

## **6. NORTH AMERICA STRUCTURAL TRUSS MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Type
  - 6.2.2. By Material
  - 6.2.3. By Application
  - 6.2.4. By Load Type
  - 6.2.5. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States Structural Truss Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Type
      - 6.3.1.2.2. By Material
      - 6.3.1.2.3. By Application
      - 6.3.1.2.4. By Load Type
  - 6.3.2. Canada Structural Truss Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Type
      - 6.3.2.2.2. By Material
      - 6.3.2.2.3. By Application
      - 6.3.2.2.4. By Load Type
  - 6.3.3. Mexico Structural Truss Market Outlook
    - 6.3.3.1. Market Size & Forecast

- 6.3.3.1.1. By Value
- 6.3.3.2. Market Share & Forecast
  - 6.3.3.2.1. By Type
  - 6.3.3.2.2. By Material
  - 6.3.3.2.3. By Application
  - 6.3.3.2.4. By Load Type

## **7. EUROPE STRUCTURAL TRUSS MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Type
  - 7.2.2. By Material
  - 7.2.3. By Application
  - 7.2.4. By Load Type
  - 7.2.5. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Structural Truss Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Type
      - 7.3.1.2.2. By Material
      - 7.3.1.2.3. By Application
      - 7.3.1.2.4. By Load Type
  - 7.3.2. United Kingdom Structural Truss Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Type
      - 7.3.2.2.2. By Material
      - 7.3.2.2.3. By Application
      - 7.3.2.2.4. By Load Type
  - 7.3.3. Italy Structural Truss Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Type

- 7.3.3.2.2. By Material
- 7.3.3.2.3. By Application
- 7.3.3.2.4. By Load Type
- 7.3.4. France Structural Truss Market Outlook
  - 7.3.4.1. Market Size & Forecast
    - 7.3.4.1.1. By Value
  - 7.3.4.2. Market Share & Forecast
    - 7.3.4.2.1. By Type
    - 7.3.4.2.2. By Material
    - 7.3.4.2.3. By Application
    - 7.3.4.2.4. By Load Type
- 7.3.5. Spain Structural Truss Market Outlook
  - 7.3.5.1. Market Size & Forecast
    - 7.3.5.1.1. By Value
  - 7.3.5.2. Market Share & Forecast
    - 7.3.5.2.1. By Type
    - 7.3.5.2.2. By Material
    - 7.3.5.2.3. By Application
    - 7.3.5.2.4. By Load Type

## **8. ASIA-PACIFIC STRUCTURAL TRUSS MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Type
  - 8.2.2. By Material
  - 8.2.3. By Application
  - 8.2.4. By Load Type
  - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
  - 8.3.1. China Structural Truss Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Type
      - 8.3.1.2.2. By Material
      - 8.3.1.2.3. By Application
      - 8.3.1.2.4. By Load Type

### 8.3.2. India Structural Truss Market Outlook

#### 8.3.2.1. Market Size & Forecast

##### 8.3.2.1.1. By Value

#### 8.3.2.2. Market Share & Forecast

##### 8.3.2.2.1. By Type

##### 8.3.2.2.2. By Material

##### 8.3.2.2.3. By Application

##### 8.3.2.2.4. By Load Type

### 8.3.3. Japan Structural Truss Market Outlook

#### 8.3.3.1. Market Size & Forecast

##### 8.3.3.1.1. By Value

#### 8.3.3.2. Market Share & Forecast

##### 8.3.3.2.1. By Type

##### 8.3.3.2.2. By Material

##### 8.3.3.2.3. By Application

##### 8.3.3.2.4. By Load Type

### 8.3.4. South Korea Structural Truss Market Outlook

#### 8.3.4.1. Market Size & Forecast

##### 8.3.4.1.1. By Value

#### 8.3.4.2. Market Share & Forecast

##### 8.3.4.2.1. By Type

##### 8.3.4.2.2. By Material

##### 8.3.4.2.3. By Application

##### 8.3.4.2.4. By Load Type

### 8.3.5. Australia Structural Truss Market Outlook

#### 8.3.5.1. Market Size & Forecast

##### 8.3.5.1.1. By Value

#### 8.3.5.2. Market Share & Forecast

##### 8.3.5.2.1. By Type

##### 8.3.5.2.2. By Material

##### 8.3.5.2.3. By Application

##### 8.3.5.2.4. By Load Type

## 9. SOUTH AMERICA STRUCTURAL TRUSS MARKET OUTLOOK

### 9.1. Market Size & Forecast

#### 9.1.1. By Value

### 9.2. Market Share & Forecast

#### 9.2.1. By Type

- 9.2.2. By Material
- 9.2.3. By Application
- 9.2.4. By Load Type
- 9.2.5. By Country
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Structural Truss Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Type
      - 9.3.1.2.2. By Material
      - 9.3.1.2.3. By Application
      - 9.3.1.2.4. By Load Type
  - 9.3.2. Argentina Structural Truss Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Type
      - 9.3.2.2.2. By Material
      - 9.3.2.2.3. By Application
      - 9.3.2.2.4. By Load Type
  - 9.3.3. Colombia Structural Truss Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Type
      - 9.3.3.2.2. By Material
      - 9.3.3.2.3. By Application
      - 9.3.3.2.4. By Load Type

## **10. MIDDLE EAST AND AFRICA STRUCTURAL TRUSS MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Type
  - 10.2.2. By Material
  - 10.2.3. By Application
  - 10.2.4. By Load Type

#### 10.2.5. By Country

### 10.3. Middle East and Africa: Country Analysis

#### 10.3.1. South Africa Structural Truss Market Outlook

##### 10.3.1.1. Market Size & Forecast

###### 10.3.1.1.1. By Value

##### 10.3.1.2. Market Share & Forecast

###### 10.3.1.2.1. By Type

###### 10.3.1.2.2. By Material

###### 10.3.1.2.3. By Application

###### 10.3.1.2.4. By Load Type

#### 10.3.2. Saudi Arabia Structural Truss Market Outlook

##### 10.3.2.1. Market Size & Forecast

###### 10.3.2.1.1. By Value

##### 10.3.2.2. Market Share & Forecast

###### 10.3.2.2.1. By Type

###### 10.3.2.2.2. By Material

###### 10.3.2.2.3. By Application

###### 10.3.2.2.4. By Load Type

#### 10.3.3. UAE Structural Truss Market Outlook

##### 10.3.3.1. Market Size & Forecast

###### 10.3.3.1.1. By Value

##### 10.3.3.2. Market Share & Forecast

###### 10.3.3.2.1. By Type

###### 10.3.3.2.2. By Material

###### 10.3.3.2.3. By Application

###### 10.3.3.2.4. By Load Type

#### 10.3.4. Kuwait Structural Truss Market Outlook

##### 10.3.4.1. Market Size & Forecast

###### 10.3.4.1.1. By Value

##### 10.3.4.2. Market Share & Forecast

###### 10.3.4.2.1. By Type

###### 10.3.4.2.2. By Material

###### 10.3.4.2.3. By Application

###### 10.3.4.2.4. By Load Type

#### 10.3.5. Turkey Structural Truss Market Outlook

##### 10.3.5.1. Market Size & Forecast

###### 10.3.5.1.1. By Value

##### 10.3.5.2. Market Share & Forecast

###### 10.3.5.2.1. By Type

- 10.3.5.2.2. By Material
- 10.3.5.2.3. By Application
- 10.3.5.2.4. By Load Type

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS & DEVELOPMENTS**

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

## **13. COMPANY PROFILES**

- 13.1. UFP Industries, Inc.
  - 13.1.1. Business Overview
  - 13.1.2. Key Revenue and Financials
  - 13.1.3. Recent Developments
  - 13.1.4. Key Personnel/Key Contact Person
  - 13.1.5. Key Product/Services Offered
- 13.2. Simpson Manufacturing Co., Inc.
- 13.3. Severfield plc
- 13.4. Goodwin plc
- 13.5. Vallourec S.A.
- 13.6. Weyerhaeuser Company
- 13.7. Nucor Corporation
- 13.8. Gerdau S.A.
- 13.9. ITW Inc.
- 13.10. MiTek Industries, Inc.

## **14. STRATEGIC RECOMMENDATIONS**

## **15. ABOUT US & DISCLAIMER**

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