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U.S. Pre-engineered Metal Building Market Size, Share & Trends Analysis Report By Application (Office, Warehouse, Healthcare, Education, Recreational, Manufacturing, Lodging & Restaurants), And Segment Forecasts, 2024 - 2030

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Abstracts

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U.S. Pre-engineered Metal Building Market Growth & Trends

The U.S. pre-engineered metal building market size is expected t%li%reach USD 21.03 billion by 2030, growing at a CAGR of 8.4% from 2024 t%li%2030, according t%li%a new report by Grand View Research, Inc. The growth is attributed t%li%the advantages of pre-engineered metal buildings over conventional steel buildings, including less erection time and costs, high seismic resistance, and lightweight. Growing inflation and increasing cost of raw materials are projected t%li%further enhance the necessity of pre-engineered metal buildings in the U.S. over the forecast period.

Increasingly prioritizing sustainability by governments, businesses, and consumers which is resulting in growing demand for green building solutions in the U.S. such as pre-engineered metal buildings. By aligning with sustainability initiatives and offering eco-friendly solutions, PEMB providers can not only drive the market but als%li%contribute positively t%li%environmental conservation efforts in the U.S.

Growing awareness regarding maintaining a clean environment has boosted the adoption of pre-engineered metal buildings as they d%li%not generate any on-site waste, and steel is recyclable. In addition, they provide various advantages, such as cost-effectiveness, reduced labor and maintenance costs, and a faster design &

construction process, which makes them preferable for making modular buildings.

Moreover, support for decarbonization has increased the demand for green steel, particularly from the end user market. This is consistent with the steel industry's growing shift toward environment-friendly steel production t%li%reach net-zer%li%emissions. With their goals t%li%employ sustainable steel products, many end-use industries, such as automotive, office, warehouse, education, healthcare, agriculture, and lodging & restaurants, are expected t%li%increase the demand for low-carbon steel and thus, propel the use of pre-engineered metal buildings over the forecast period.

The pre-engineered metal industry is progressive and provides numerous advantages t%li%consumers over traditional construction. However, the market faces certain challenges, which can hinder its growth. The demand for prefabricated construction is growing for apartment buildings and hotels, where every unit can be standardized and stacked over one another. But, in cases where the modules need t%li%be distinct and non-repetitive, pre-engineered construction loses its key advantages of cost and time t%li%a certain extent.

The value chain of the pre-engineered building market is characterized by the presence of raw material manufacturers/suppliers, manufacturers, and contractors/erectors. The designing of PEB structures is done using software, such as StaadPro, AutoCAD, MBS, and Tekla. The design is then sent t%li%the customer for approval, after which fabrication of the building is initiated.

The transporters of pre-engineered metal building must be careful with problems such as bridges, tight turns, traffic problems, crane setup, and any temporary road closure permits. Companies must plan module sizes in accordance with the size of the road and the capacity of the crane. Furthermore, skilled labor is required t%li%handle trailers and cranes. Thus, the transportation of prefabricated structures from off-site t%li%on-site is one of the challenges for the market.

U.S. Pre-engineered Metal Building Market Report Highlights

The demand for the product is expected t%li%increase at the fastest rate of 9.2% in manufacturing application over the forecast period. For manufacturing plants looking t%li%expand their operations or

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increase production capacity, pre-engineered metal buildings offer a flexible and scalable solution. Additional modules can be easily added t%li%existing structures, allowing businesses t%li%grow without significant downtime or disruption t%li%their operations

Major market players are continuously focusing on research and development activities t%li%improve the quality of steel during its processing for developing high-quality pre-engineered metal buildings

The fluctuations in steel prices are expected t%li%be a key concern for the suppliers. However, the presence of raw material suppliers in large numbers in the U.S. is projected t%li%ease raw material procurement. Furthermore, the availability of advanced transportation facilities in the U.S. is projected t%li%ensure low bargaining power of suppliers in the market over the forecast period

The U.S. pre-engineered metal building market is very competitive owing t%li%the presence of medium- t%li%large-scale players. Pre-engineered metal buildings are attractive alternatives t%li%traditional wood buildings owing t%li%their quick construction, high strength and versatility, and reduced costs. These buildings are developed offsite in specialized facilities and are primarily made by assembling components, such as walls, roofs, and staircases. Thus, pre-engineered metal buildings require additional capital investments and land availability for expansion purposes

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Contents

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CHAPTER 4. U.S. PRE-ENGINEERED METAL BUILDING MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

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CHAPTER 5. U.S. PRE-ENGINEERED METAL BUILDING MARKET: SUPPLIER INTELLIGENCE

CHAPTER 6. COMPETITIVE LANDSCAPE

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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