

North America Mass Timber Fasteners Market Size, Share & Trends Analysis Report By Product (Structural Screws, Bolts & Threaded Rod Systems, Nails & Pins), By End Use (Residential, Commercial, Industrial, Infrastructural), By Region (U.S., Canada, Mexico), And Segment Forecasts, 2026 - 2033

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Abstracts

The North America mass timber fasteners market size was estimated at USD 23.0 million in 2025 and is projected to reach USD 43.0 million by 2033, growing at a CAGR of 8.2% from 2026 to 2033. The demand for mass timber fasteners in North America is rising rapidly as mass timber construction is rapidly adopted across residential and commercial sectors.

As developers shift toward low-carbon building materials, engineered wood products such as cross-laminated timber (CLT) and glulam are replacing steel and concrete in mid- and high-rise structures. This transition directly increases the need for specialized fasteners that can withstand structural loads, meet seismic performance requirements, and provide durability.

In addition, the growing emphasis on faster construction timelines is boosting the use of prefabricated timber systems, which rely heavily on high-performance fastening solutions. The expansion of urban housing and institutional infrastructure further supports this trend. Increasing awareness of sustainability and the benefits of carbon sequestration is also influencing material selection.

Key drivers include strong regulatory support and evolving building codes in the U.S. and Canada that now permit taller timber buildings, thereby increasing structural

complexity and fastening requirements. Government-backed green building certifications and incentives are encouraging developers to adopt mass timber, which indirectly drives demand for advanced fastening systems. Technological advancements such as Building Information Modeling (BIM), CNC machining, and prefabrication techniques are enabling precision-based construction, increasing reliance on engineered fasteners. Rising investments in sustainable real estate and infrastructure projects are also accelerating market growth. Furthermore, the growing popularity of hybrid structures (timber-concrete or timber-steel) requires innovative fastening technologies for multi-material integration.

The market is witnessing continuous innovation in fastening technologies to meet the structural and safety requirements of mass timber buildings. Advanced self-drilling screws, concealed fastening systems, and high-strength connectors are being developed to improve load-bearing capacity and fire resistance. Automation and robotics in prefabrication processes are enabling precise placement of fasteners, reducing installation time and labor costs. There is also a growing trend toward customized fastening solutions designed for specific timber products such as CLT and glulam. In addition, digital design integration is allowing engineers to simulate fastening performance, improving efficiency and reducing material wastage. These innovations are enhancing the overall performance and scalability of mass timber construction in North America.

North America Mass Timber Fasteners Market Report Segmentation

This report forecasts revenue growth at regional & country levels and provides an analysis on the industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the North America mass timber fasteners market report based on product, end use, and region:

Product Outlook (Revenue, USD Million, 2021 - 2033)

Structural Screws

Bolts & Threaded Rod Systems

Nails & Pins

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Residential

Commercial

Industrial

Infrastructural

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

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