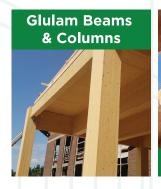
What is mass timber?

Mass timber is an umbrella term for a variety of large-format engineered wood construction materials made from layers of dimensional lumber or veneer.

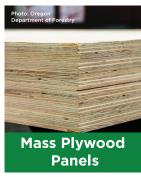
Mass = massive which is why the materials are most frequently used in big commercial buildings and apartment buildings.

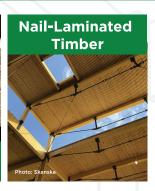
Types of mass timber











What are mass timber's benefits?

Building with mass timber can **speed up** construction timelines.

Manufacturing it can create **new jobs** and economic development opportunities.

People who live and work in mass timber buildings may be more productive or happier due to **biophilia**—the benefits of bringing nature indoors.

Mass timber offers powerful sustainability benefits:

Made from a renewable resource: Mass timber construction reduces reliance on finite resources, promoting long-term ecological balance.

Stores carbon long term: The mass timber stored in MSU's STEM Teaching and Learning Facility stores an amount of carbon equivalent to the emissions of driving a car 4.7 million miles.

Can reduce the carbon footprint of buildings:

Replacing carbon-intensive materials with mass timber in large buildings can significantly decrease their carbon footprints.

Can support healthy forest management: The demand for sustainably sourced timber supports responsible forest management practices

The MI Healthy Climate Plan cites mass timber as a tool in the State's toolkit to achieve net-zero carbon by 2050.

MassTimber@MSU



Mission & Partners

MassTimber@MSU leverages research, education, communications, outreach, policy, and collaboration to advance sustainable mass timber manufacture and construction. This work is in close collaboration with the State of Michigan and a wide range of stakeholders from multiple sectors – architecture, engineering, and construction (AEC), forestry and forest products; mass timber manufacturing; labor and workforce; NGOs; local and regional government; academia, and more.

Outreach & Engagement

Fostering a multi-faceted mass timber community by:

MSU STEM Facility Tours and Presentations:

~2300+ participants have participated in these mass timber-focused tours and presentations.

Michigan Mass Timber Community of Practice:

Quarterly, virtual technical assistance and peer-learning gathering for mass timber-engaged professionals in Michigan.

Michigan Mass Timber Update: An annual year-end gathering of more than 150 Michigan-based mass timber stakeholders. Produced in partnership with Michigan Department of Natural Resources (MI DNR).

Research & Education:

Michigan Mass Timber Supply Chain Analysis and Great Lakes Demand Survey: Providing critical insights for prospective mass timber manufacturers; funded by DNR. Developing Lignin-Based Mass Timber Adhesives: Lignin is an extract from trees and plants; these adhesives can offer biodegradable, sustainable alternatives to fossil fuel-based products.

Mass Timber Curriculum Development: Developing modular mass timber design, engineering, and construction curriculum for two- and four-year institutions nationally.



