

**Joint Action Project**

# Mass Timber Design Standardization and Volume Procurement

Mass timber can reduce embodied carbon emissions compared to steel and concrete buildings due primarily to 1) avoidance of carbon-intensive processes associated with concrete and steel production, and 2) carbon sequestration from the atmosphere during timber growth that remains stored in the building material. The Mass Timber joint action project focuses on standardization of mass timber components that will work in a variety of building types, and development of a volume procurement program to signal suppliers to increase production. Standardized demand and volume purchasing are intended to increase availability and implementation of mass timber, reduce costs for owners and developers, and demonstrate a path to deep reductions in lifecycle building carbon emissions.

## Why this project matters

- Mass timber can reduce building embodied carbon emissions approximately 40-60% per building (dependent on building size).
- Widespread adoption of mass timber is limited by lack of standardization and constrained supply (NA manufacturing capacity is estimated at less than 70% utilization).
- Standardized design of multi-use components is necessary to achieve economies of scale in production and reduce costs.

## Expected results

- Develop a standardized set of components or dimensions that work in multiple building types
- Volume purchasing program framework based on standardized component design to signal suppliers and manufacturers to increase production, ideally reducing costs
- Align industry stakeholders around responsible timber sourcing and traceability criteria to maximize forest health

## The big picture

The Climate Pledge launched a series of collaborative projects to help tackle some of the planet's biggest climate change challenges alongside the best in the business. These joint action projects bring signatories together to enable and scale a solution that aligns with the pillars of the Pledge and leads to measurable results.

Learn more at [theclimatepledge.com/jointaction](https://theclimatepledge.com/jointaction).

## Join this project

Scan the QR code or visit [amzn.to/joinaproject](https://amzn.to/joinaproject) to let the Pledge team know you are interested in this project.

Have questions? Contact us at [ccr-sustainability-spp@amazon.com](mailto:ccr-sustainability-spp@amazon.com).

