

[BamCore](#) offers a new building framing solution. Their bamboo-based, studless wall system is said to exceed conventional framing solutions in strength, thermal performance, product health, environmental impact, and installation times. BamCore emphasizes ethically harvested timber bamboo, a strong and fast-growing structural fiber, and manufactures it into a customizable, code-compliant wall system, reducing the waste and carbon footprint of a conventional home or building.



BamCore's Supply Chain

BamCore is a vertically integrated design/build firm. They manage their supply of timber bamboo, manufacturing of bamboo sheet panels, and fabrication of custom and semi-custom wall assemblies.

BamCore has built a global supply chain for resilient and renewable structural timber bamboo, selectively harvesting to maintain a sustainable supply. BamCore now sources bamboo from 16 suppliers across four continents, working directly with farmers in countries such as Ecuador, Vietnam, Ghana, and India. They intentionally secure raw materials ethically, while helping uplift wages and export markets of developing countries.

The raw materials of round hollow timber bamboo is manufactured into structural panels in Ocala, Florida in a BamCore facility in a low embodied energy process that uses no chemicals nor water. Then the structural panels travel by train to their Windsor facility where they are fabricated specifically for each job and readied for field assembly.



Environmental Performance & Potential
BamCore's innovative wall system has the potential to lower the carbon footprint of buildings through:

- Selection of timber bamboo, a fast growing renewable resource over that of traditional wood timber
- Biogenic carbon storage in the bamboo timber inside the building envelope
- Reduction of jobsite construction waste through precision panels
- Increased building performance over time due to reduced air leakage
- Reduction of the thermal bridge in walls by foregoing the studs in BamCore's code-compliant wall system

BamCore serves the residential, low-rise multifamily, and commercial markets. They hope to expose and attract developers, engineers, architects, and policymakers to their new way of building, and in turn hopefully look to lower the carbon footprint of our low-rise built environments.

