



Advanced Building Materials for Sustainable Construction

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WoodSyn, an emerging leader in sustainable construction materials based in Arizona, is revolutionizing the construction industry with its OptimWall™ panelized building system and C3, a carbon-negative dimensional lumber alternative for external walls. WoodSyn utilizes proven wood fiber and mineral binder technology to transform small-diameter timber, a ladder fuel for wildfires, into a carbon-sequestering construction material. We address the critical issue of catastrophic forest fires and contribute to the fight against climate change through a Clean-Tech, advanced manufacturing process.



Transforming Low-Value Timber into High-Value Low-Carbon Construction Panels

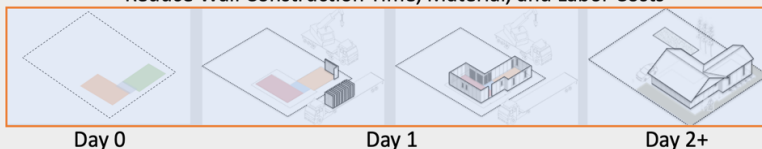
WoodSyn creates economic value by generating employment opportunities within its manufacturing facilities and through the construction of sustainable buildings. Additionally, WoodSyn's OptimWall™ addresses the pressing need for quality, attainable housing, filling a crucial gap in the U.S. market for Workforce and Affordable housing. WoodSyn's holistic approach embodies a triple-bottom-line philosophy, delivering economic, environmental, and social value by providing healthier, energy-efficient homes while promoting the adoption of sustainable construction materials across the construction industry.

Our Advanced Manufacturing plant will produce OptimWall™ building panels for 3000 homes per year. C3 has been developed with DOE HESTIA funding in collaboration between WoodSyn and three leading universities.

OptimWall™ Building System



Reduce Wall Construction Time, Material, and Labor Costs



C3 – Fire Resistant Dimensional Materials



Benefits of C3:

- Price Stability
- Stable Supply Chain
- Carbon-Negative Building Materials
- Fire Resistant
- Climate Change Resilient

**Reducing the Time and Cost to Build
Reducing the Time and Cost for the
Construction and Built Environments**

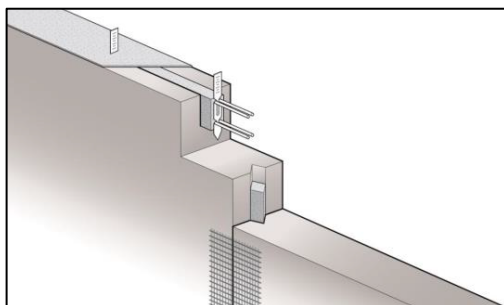
The OptimWall™ panels and C3 are resistant to moisture, mold, insects, and have a six-hour fire resistance. OptimWall™ provides excellent acoustic properties for healthy living conditions. The OptimWall™ panels meet the **European Environmental and Sustainability Standards** for Product Life Cycle and Indoor Climate Labelling.



Construction of Fire-Resistant Buildings, Including Homes, Schools, Community and Medical Centers

Our panelized building system enables efficient and rapid construction of single- and two-story houses, offices, public buildings, and multi-story apartment buildings. Builders can integrate OptimWall™ panels into cross-laminated timber, concrete, and steel-framed structures, or utilize our OptimWall™ Building System.

Typical OptimWall™ Panel dimensions are based on widths of 4, 6, and 8 feet, with a wall height of 8 to 10 feet. Wall thicknesses can vary depending on the requirements or region, ranging from 8 to 16 inches thick. OptimWall™ panels offer R-values ranging from R19 to R30 or higher, as required for passive structures.



OptimWall™ Building System

The **OptimWall™ Building System** includes a reinforced low-carbon concrete ring beam embedded in the grooved topside of the OptimWall™ panels and vertical concrete columns between the wall panels, giving the entire structure rigid stability. The load-bearing properties and integrated support for the roof trusses and support for the intermediate floor are present for the construction of multi-story structure.

- ✓ Low Production Costs
- ✓ Environmentally Safe
- ✓ Thermally Efficient – R 20+
- ✓ Water and Moisture Resistant

- ✓ Fire Resistant
- ✓ Carbon Sink
- ✓ Insect and Vermin Resistant
- ✓ Acoustically Efficient

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