



BioFiber Wall Systems – Blocks & Panels

Sustainable. Durable. Carbon-Smart.

BioFiber Industries' wall solutions combine **plant-based bio composites** with precision manufacturing to deliver healthier, high-performance building materials. Designed to replace conventional drywall, insulation, and masonry units, BioFiber products meet the growing demand for sustainable, code-compliant alternatives.

Product Range

3" BioFiber Panels – Interior retrofit, partitions, acoustic walls

5" BioFiber Panels – Continuous insulation, exterior wall assemblies, modular builds

12" BioFiber Blocks – Masonry replacement, structural infill for residential & commercial

Attribute	3" Panels	5" Panels	12" Blocks
Thickness	3 in (76 mm)	5 in (127 mm)	12 in (305 mm)
Width x Height	3" x 16"	5" x 16"	12" x 16"
Weight (approx.)	4–6 lbs/sq ft	6–9 lbs/sq ft	12–14 lbs/block
R-Value	R-9	R-12	R-24
Fire Resistance	ASTM E84 Class A	ASTM E84 Class A	ASTM E84 Class A
Vapor Permeability	5–7 perms	5–7 perms	5–7 perms
Acoustic Rating (STC)	45–50	50–55	50+
Carbon Profile	Carbon-negative	Carbon-negative	Carbon-negative
Toxicity	Zero VOCs, no formaldehyde, no PFAS	Same	Same

Performance Benefits

Architects & Designers – Meets Washington State Buy Clean & Buy Fair standards, integrates with modern and historic aesthetics, vapor-open assemblies align with passive and healthy home design.

Procurement Managers – Competitive installed cost vs. drywall + insulation + soundproofing.

Single product reduces complexity and SKUs. EPD available upon request.

Builders & Contractors – Faster installation with large-format panels and modular blocks. Reduced callbacks from moisture, mold, and indoor air quality complaints.

Homeowners & Building Owners – Fire- and mold-resistant, energy-efficient, and non-toxic. Creates healthier, quieter living environments with long-term cost savings.

Technical Sales Managers – Ready to spec for commercial bids, federal and state projects, and high-performance building certifications (LEED, Passive House, Living Building Challenge).

Applications

New build and retrofit wall assemblies Multi-family housing, commercial interiors, ADUs, and modular construction Schools, healthcare, and public buildings requiring healthy, non-toxic materials Climate-smart procurement projects and state-funded housing initiatives

Sustainability & Compliance

Carbon Negative: Each product stores more CO₂ than it emits during production

Circular Sourcing: Made from U.S.-grown industrial hemp and agricultural byproducts

Compliant: ASTM E84, ASTM C518, and ISO environmental standards

Healthy Materials: Free of fiberglass, formaldehyde, PFAS, and toxic resins

Contact & Ordering

Bio Fiber Industries

Washington State, USA

biofiberindustries.com

info@biofiberindustries.com