

SUSTAINABILITY IN PRACTICE



Freres has earned its place as an industry leader in sustainable practices by investing in innovative products and processes, controlling its environmental impact and being stewards of the land.

SUSTAINING TIMBERLAND

Freres Engineered Wood has provided high-quality wood products for more than 100 years, while ensuring that future generations receive the same. Our 17,000 acres of timberland are harvested on a **sustained yield basis**, meaning that as those trees are harvested, we replenish the resource.

Freres also follows a **Zero Waste business model**, using 100 percent of every log we produce. Our veneer products are made with a lathe that peels thin layers from logs as large as 48 inches, or as small as 6 inches. Additionally, we produce and sell remnants such as bark dust, chips and sawdust, which are used in a variety of markets such as residential construction, farms, nurseries and a wide range of paper products.

Finally, Freres uses any residual wood to produce energy and carbon-reducing byproducts. By burning the waste from the on-site production of timber products, we're able to create biomass energy. Our cogeneration plant produces enough electricity to power more than 5,000 households, as well as thermal energy for our manufacturing facilities.

This same process also produces biochar, which helps climate-conscious companies decrease their carbon footprint by enhancing soil and retaining carbon for hundreds, even thousands, of years. Freres is certified as a Carbon Removal Supplier through the Puro.earth marketplace for our biochar product.

“ We believe wood products are a key element to combating climate change and have a three-pronged approach to respecting our environment: develop sustainable and recyclable construction products, adhere to sustainable forest management practices and produce energy and carbon-reducing byproducts from wood products that have reached the end of their usable lives.

— Kyle Freres, VP of Operations

WE STAND AMONG THE BEST WOODLAND STEWARDS IN AMERICA

Freres is certified by the Pacific Lumber Inspection Bureau (PLIB) under ASTM D7612 as “Responsibly Sourced.” Freres is also certified by the American Tree Farm System (ATFS), which assures consumers that the products they purchase originate from sustainably managed forests that protect economic, social and environmental benefits.



SUSTAINED YIELD BASIS

Sustained yield of natural resources is the ecological yield that can be harvested without depleting that resource. This approach is important in ensuring the long-term replacement of our resources by regrowth and reproduction.



BUILDING THE FUTURE

After nearly 60 years of producing veneer products, Freres has engineered a monumental mass timber product: **Mass Ply**.

Assembled by combining extremely thin layers of wood veneers, Mass Ply is a major contributor to the mass timber movement, a growing worldwide effort to construct multi-story buildings out of wood rather than less eco-conscious alternatives, like steel and concrete.



MASS PLY



MASS BENEFITS

- ◆ Mass Ply is strong and lightweight, and it gets excellent marks in seismic integrity and fire resistance.
- ◆ The dense layering of wood veneers in Mass Ply can result in high levels of thermal insulation.
- ◆ Mass Ply is produced primarily from small-diameter trees, which is ideally suited to mitigating overstocked forests in the Northwest.
- ◆ Traditional building materials — such as concrete, steel and iron — are among the largest sources of industrial CO2 emissions in the U.S., while wood products like Mass Ply absorb and retain CO2.
- ◆ According to Tallwood Design Institute, Mass Ply has the ability to provide much lower embodied energy than concrete and steel.
- ◆ Mass Ply uses 20–30% less wood than cross-laminated timber (CLT) and is as strong as, or stronger than, other structural composite lumber (SCL) products.



ZERO WASTE
business model



Mass Ply is
4X LIGHTER
than concrete &
steel construction



Wood is
100% NATURAL
renewable &
recyclable

