

SmartLam, LLC

Whitefish, Montana

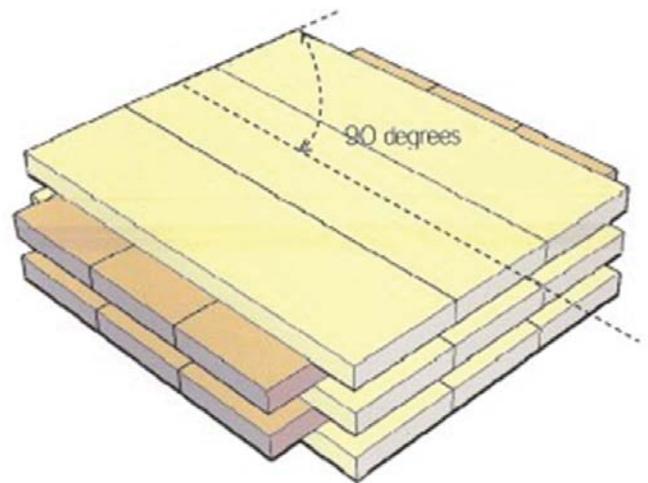
TPM Member Since June 2015



Cross laminated timber (CLT) is the new wood. Developed in Austria in the early 1990s, CLT has been used as a major building material for over 20 years. The structural stability of these panels mean CLT can be used to create incredibly strong buildings and bridges, even furniture. Anything structural can be built using CLT panels.

SmartLam is the first commercial CLT manufacturer in the U.S., and takes its leadership role to heart. Founded in 2012 at its location in Whitefish, Montana, the company began commercial production in February 2013.

The company is one of only four cross-laminated timber (CLT) facilities in North America – two in the U.S., and two



CLT panels consist of several layers of kiln-dried lumber boards stacked in alternating directions and glued together.



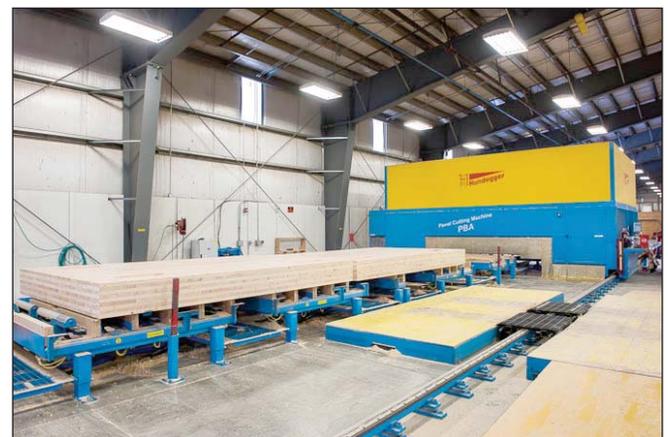
The CLT panels are strong enough for bridges, rigging platforms, and any other structural use.

Architects and engineers can use CLT for an entire building, as both the lateral and vertical load resisting system, or for select elements such as the roof, floors or walls. As a structural panel element, CLT is also used as a superior industrial matting, bridging and retaining wall product that replaces heavy timbers, steel, and concrete. The combination of sustainable forestry practices, carbon emissions reduction, and energy efficiency, make CLT the obvious choice for a structurally stable, sustainable building material. CLT has the potential to be the preferred building material of the 21st century.

SmartLam CLT panels are manufactured from trees harvested in sustainably managed forests. The company sources its raw materials exclusively from small and medium diameter timber. The primary woods used to produce CLT are Douglas Fir,

in Canada. SmartLam products can be found at projects across the country, as well as in Mexico and Saudi Arabia. SmartLam's CLT panels are so durable and mobile that they are frequently used as oil drilling rig pads, pipeline construction platforms and temporary roadways and bridges.

A CLT panel consists of several layers of kiln-dried lumber boards stacked in alternating directions, bonded with non-VOC and formaldehyde-free adhesives, and pressed to form a solid, straight, rectangular panel. CLT panels typically consist of an odd number of layers (usually, three to seven or more). This cross lamination provides dimensional stability, strength and rigidity, which makes CLT a viable alternative to conventional framing, concrete, masonry and steel in many applications.



The factory processes small diameter lumber into full size CLT structural lumber.

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Western Larch, Engelmann Spruce, Lodge Pole Pine, and Alpine Fir – trees that make some of the strongest lumber in the world. The company makes a point of working with regional forest vendors that operate within 200 miles of the production plant.

Once in the plant, the boards are kiln dried to a moisture content of 12% +/- 3%. Proper moisture content is important for optimal adhesion and prevents dimensional variations and surface cracking. The boards are trimmed and finger jointed. To make the panels, the finger-jointed boards are placed side-by-side to form solid wood layers. Each succeeding layer is laid perpendicular to the preceding layer



The long wide sheet of CLT can be utilized in many building capacities, like this ceiling.



The CLT strength makes it an ideal solution for floors over an open expanse.

Continuous Improvement to ensure every order produced is consistently of the highest quality.

A young company, SmartLam is committed to having the absolute best people on staff and providing the culture and environment that best supports them and their families. More than 30 employees work for SmartLam.

SMARTLAM
A small company making a big difference.



CLT construction is five times lighter than concrete, cost competitive, fire resistant, and reduces overall construction time.

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