

# MASS TIMBER CONSTRUCTION

## WHAT IS CROSS-LAMINATED TIMBER?

Cross-Laminated Timber (CLT) is a mass timber product. They are engineered wood panels produced with wood from sustainably harvested forests.

A CLT panel is typically 3 to 9 boards thick, laminated at high pressure to create a strong luxury building material.

Wood is a renewable resource and Mass Timber Construction is a much more sustainable alternative to more traditional steel, concrete & masonry methods.

## ENGINEERED WOOD PANELS 3 TO 9 LAYERS

TRANSVERSE  
PLANKS

LONGITUDINAL  
PLANKS



## CONCRETE vs. MASS TIMBER

### SLOW TO BUILD

Concrete needs time to solidify before it can support the weight of floors above.

### NON-RENEWABLE RESOURCE

Concrete is a mixture of gravel, sand & cement. Mining for these materials use up valuable resources & change the Earth's natural landscape permanently.

### HIGHER NOISE LEVELS

Dense concrete transfers noise, meaning you hear more sounds from surrounding neighbors.

### FAILS UNPREDICTABLY

Structures can fail unpredictably, especially in the event of a fire or an earthquake.

### FAST TO BUILD

Materials are pre-fabricated & delivered on-site ready to assemble, dramatically reducing construction time & waste.

### RENEWABLE RESOURCE

Wood is harvested from sustainably managed forests, where four trees are planted for each one harvested. Trees also absorb carbon as they grow naturally, storing it into the wood.

### QUIETER HOMES

CLT is known to dissipate impact sounds, meaning a quieter home & peaceful life.

### FIRE RESISTANCE

Mass timber chars & does not burn like conventional wood.

### SEISMIC RESILIENCE

Multi-level CLT structures have been tested in Japan & show little to no damage after multiple earthquake simulations. This helps ensure the safety of your home & family.



### STRENGTH

Cross-lamination provides excellent dimensional stability & strength performance at a very unique weight to strength ratio compared to common structural methods.



### SAFETY

The combination of Fire Resistance & Seismic Resilience provides home owners with an added sense of safety & security in unpredictable emergency situations.



### SUSTAINABILITY

Mass Timber is a sustainable resource with a much lower carbon footprint than steel and concrete. This has a positive effect on sustainability scores and overall well-being.



### QUIET HOME™

Increased acoustic performance means that sound transferred between floors & walls, both airborne & impact, will be decreased substantially. Enjoy your new home in peace.



### REDUCED BUILD TIME

Mass Timber structural systems consisting of Glulam & pre-fabricated CLT panels arrive on-site ready to assemble for fast & accurate building for improved time to market.

Adera is the largest Built Green builder in BC & has won multiple national & international awards, including the Platinum Georgie Award & 3 Grand SAMs, in addition to being the first Canadian recipient of a Gold Nugget Award.

Mass Timber products are the way of the future for multi-family residential construction. Adera's focus on innovation & technology is driven by our passion to offer the best value to our customers. We believe in raising the bar to deliver more sustainable homes to benefit the cities we live, work & play in.

Quiet Home™, our innovative construction methodology which includes the use of Mass Timber technology, reduces sound transference beyond current building codes. This increased performance means that both airborne & impact sound transferred between floors & walls will be decreased, allowing you to peacefully enjoy your new Adera home.

From safety & sustainability, to sound performance & reduced construction time – Mass Timber will elevate multi-family residential construction standards to enrich the lives of home owners.