



CROSS-LAMINATED TIMBER (CLT)

CLT from Element5

- Manufactured in Ontario
- Sustainably sourced wood
- Widest panels in Canada
- Attractive, edge-glued panels
- FSC chain of custody certified plant

CLT

Cross-laminated timber offers a sustainable, cost-effective, and human centered construction alternative to concrete and steel. CLT can be used in many structural applications including floors, walls, roofs, shearwalls, elevator cores, and stairs.



As the only CLT manufacturer in Ontario, we support projects in the region and beyond with a suite of professional services as a single point solution for the design, supply and assembly of modern mass timber buildings.

Our fully automated, state-of-the-art factory in St. Thomas produces visually superior, edge-glued CLT panels made from sustainably sourced SPF lumber inputs.

We take pride knowing our products and buildings are making a difference for people and the planet. Let our team help you optimize your next mass timber project.



CONTACT US:
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 1-888-670-7713
www.elementfive.co

Grades Available	V2, E1
Optimal Panel Width* other widths available on request	3.4m / 2.5m / 1.6m (11 ft / 8.2 ft / 5 ft) 3.2m visual, 3.5m non-visual
Panel Width Tolerance	+/- 3mm (1/8") of panel width
Maximum Panel Length	16.0m (52 ft)
Panel Length Tolerance	+/- 3mm (1/8") of panel length
Maximum Panel Thickness	380 mm (15")
Panel Thickness Tolerance	+/- 1/16" or 2% of panel thickness, whichever is greater
Panel Design	At least three layers of bonded single-layer panels arranged at right angles to each other.
Surface Classification	Architectural or Industrial Appearance, Non-Visual
Panel Edges	Standard square edges Optional 6mm (1/4") chamfer on edges
Wood Species	SPF (spruce-pine-fir), other species upon request
Lamstock Sorting Grade	No. 1 / No. 2, other grades available upon request
Moisture Content	12% ± 2% at time of production
Bonding Adhesive	Purbond polyurethane adhesive for finger joining and surface bonding
Visual Quality	Architectural Appearance and Industrial Appearance surfaces are always sanded on exposed face
Weight	For determining transport weight: approximately 470kg/m ³ (30lb / ft ³)
Squareness	Panel face diagonals shall not deviate more than 1/8"
Straightness	Deviation of edges from a straight line between corner points shall not exceed 1.5mm (1/16")

L Panels (surface layers parallel to panel length)

LAYERS	DEPTH (mm)	L	T	L	T	L	T	L	T	L
3 PLY	87	35	17	35						
3 PLY	105	35	35	35						
5 PLY	139	35	17	35	17	35				
5 PLY	175	35	35	35	35	35				
7 PLY	209	70	17	35	17	70				
7 PLY	245	35	35	35	35	35	35	35		
9 PLY	315	35	35	35	35	35	35	35	35	35

C Panels (surface layers perpendicular to panel length)

LAYERS	DEPTH (mm)	T	L	T	L	T	L	T	L	T
3 PLY	87	35	17	35						
3 PLY	105	35	35	35						
5 PLY	139	35	17	35	17	35				
5 PLY	175	35	35	35	35	35				
7 PLY	209	70	17	35	17	70				
7 PLY	245	35	35	35	35	35	35	35		
9 PLY	315	35	35	35	35	35	35	35	35	35

COST CONSULTING



DESIGN CONSULTING



ENGINEERING



FABRICATION



ASSEMBLY

