



**ELEMENT5**  
MODERN TIMBER BUILDINGS

# CROSS-LAMINATED TIMBER (CLT)



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## CLT from Element5

- PRG320-2019 Certified
- V2 and E1 Grades
- SPF (Spruce, Pine, Fir)
- Up to 3.4m (11.1 ft) in width  
x 15.8m (51.8 ft) in length
- Attractive, edge-glued panels



# 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.**



Element5 is a mass timber manufacturer offering an integrated suite of products and services to support mass timber projects across Canada, the USA and internationally. Our fully automated, state-of-the-art factory in St. Thomas, Ontario produces visually superior, edge-glued CLT panels made from sustainably sourced SPF lumber.



**CONTACT US:**  
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[www.elementfive.co](http://www.elementfive.co)

<b>Certification</b>	Manufactured and tested to PRG320-2019. Our St. Thomas, Ontario, Canada facility is 3rd party certified to meet the certification requirements of the certifying body to manufacture cross laminated timber
<b>Grades Available</b>	V2, E1
<b>Optimal Panel Width*</b> other widths available on request	3.4m / 2.5m (11.1 ft / 8.2 ft) Finished Width Maximum Finished Width Visual Panels: 3.1m (10.1 ft) if machine sanded or 3.4m (11.1 ft) if hand sanded at additional cost Note: 3.4m (11.1 ft) wide panels trigger oversize loads and additional shipping cost
<b>Panel Width Tolerance</b>	+/- 3mm (1/8") of panel width
<b>Panel Length</b>	Maximum: 15.8m (51.8 ft) / Minimum: 8m (26.2 ft)
<b>Panel Length Tolerance</b>	+/- 3mm (1/8") of panel length
<b>Maximum Panel Thickness</b>	380mm (15")
<b>Panel Thickness Tolerance</b>	+/- 1.5mm (1/16") or 2% of panel thickness, whichever is greater
<b>Panel Design</b>	At least three layers of bonded single-layer panels arranged at right angles to each other
<b>Surface Classification</b>	Two Side Visual, One Side Visual, Non-Visual
<b>Panel Edges</b>	Standard square edges
<b>Wood Species</b>	SPF (spruce-pine-fir), other species upon request
<b>Lumber Sorting Grade</b>	No. 1 / No. 2, other grades available upon request
<b>Moisture Content</b>	12% ± 3% at time of production
<b>Bonding Adhesive</b>	Two Part adhesive for finger joining and Purbond polyurethane adhesive face bonding
<b>Visual Quality</b>	Two Side Visual and One Side Visual Surfaces are always sanded on exposed face
<b>Weight</b>	For determining transport weight: approximately 470kg/m <sup>3</sup> (30lb / ft <sup>3</sup> )
<b>Squareness</b>	Panel face diagonals shall not deviate by more than 3mm (1/8")
<b>Straightness</b>	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/inches)	T	L	L	T	L	T	L	T	L
3 PLY	87 / 3 7/16"	35	17	35						
3 PLY	105 / 4 1/8"	35	35	35						
5 PLY	139 / 5 1/2"	35	17	35	17	35				
5 PLY	175 / 6 7/8"	35	35	35	35	35				
7 PLY	191 / 7 1/2"	35	17	35	17	35	17	35		
7 PLY	245 / 9 5/8"	35	35	35	35	35	35	35		
9 PLY	315 / 12 3/8"	35	35	35	35	35	35	35	35	35

## C Panels (surface layers perpendicular to panel length)

LAYERS	DEPTH (mm/inches)	T	L	L	T	L	T	L	T	L
3 PLY	87 / 3 7/16"	35	17	35						
3 PLY	105 / 4 1/8"	35	35	35						
5 PLY	139 / 5 1/2"	35	17	35	17	35				
5 PLY	175 / 6 7/8"	35	35	35	35	35				
7 PLY	191 / 7 1/2"	35	17	35	17	35	17	35		
7 PLY	245 / 9 5/8"	35	35	35	35	35	35	35		
9 PLY	315 / 12 3/8"	35	35	35	35	35	35	35	35	35

