



Mercer Mass Timber Building Solutions
CLT Light Industrial

March 2024

CLT Light Industrial

Mass timber is the optimal solution for light commercial and industrial buildings seeking heightened sustainability impact and schedule acceleration.

Key Value Drivers

Building Construction

- **Reduced On-site Scope:** CLT panels are manufactured off-site, omitting the need for on-site rebar tying and CIP requirements
- **Reduced Site Equipment and Labor:** Fewer trades, smaller crane and crew requirements
- **Reduced On-site Staging:** CLT panels are delivered install-ready from truck beds
- **Reduced Weather Delay Risk:** Wall installation no longer held to concrete-casting weather requirements
- **Improved Interior Slab:** Reduced shoring requirements provides for clean final interior slab conditions

Building Performance

- **Insulation:** CLT's R-1.25 per inch of thickness is 15X greater than concrete. Outboard insulation omits the need for interior tenant insulation
- **Exterior Cladding:** Final exterior finishes may provide 30+ year warranties, superior to concrete tilt-up 5-7 year paint maintenance requirements

Employee Wellness

- Proven biophilic properties of wood workplaces yield higher productivity, positive well-being, and lower stress and illness rates

Sustainability

- Cradle to Gate >200% Global Warming Potential (GWP) reduction compared to tilt-up concrete



For more information about our technical services or any product within the Mercer Mass Timber product portfolio, please contact us at clt@mercerint.com or visit mercermasstimber.com.

Technical Services

- **Technical Offerings:** Design-Assist, Estimating/Preconstruction
- **Project Delivery:** 4D BIM Planning, Logistics, Just-in-Time Delivery
- **Fabrication:** Shop Drawings, CNC Machining, CLT Panel Prefab
- **Installation:** Full Erection, Logistics Planning & Sequencing, Lift/Bracing Engineering, Site Supervision/Consultation, and 4D Construction Scheduling

Mass Timber Product Portfolio

- **Layup:** 3, 5, 7 and 9-ply **Sizing:** Up to 12'x60'
- **Species:** Spruce-Pine-Fir (SPF), Douglas-Fir-Larch (DF-L), Southern Yellow Pine (SYP)
- **Visual Grade:** Architectural Appearance (AA), Industrial Appearance (IA)
- **CLT Grade:** 1.4V 875 = V2, 1.4V 750 ≥ V3, 1.8M ≥ E1, E3
- **GLT Grade (Manufactured):** 24F-V8, 20F-V7, 16F-V6 (DF-L)
- **Glulam Grade:**

- Western Species: 24F-V4 DF, 24F-V8 DF, Comb. 2 L2 DF
- Southern Species: 24F-V3 SP, 24F-V8 SP, Comb. 50 N1D14 SP

Use Cases

- Companies aiming to meet aggressive sustainability and carbon reduction goals in their real estate portfolio
- Owners and developers prioritizing long-term sustainability, workplace aesthetics, performance, and maintenance benefits

