

# Mass Timber Project Questionnaire for Builder's Risk Insurance



This document is an editable form that construction, development and design teams can fill out to aid in collecting mass timber project-specific information to share with their insurance team. The goal is to answer some of the common questions and concerns that insurers may have specific to the mass timber aspects of the project. This document is not intended to address all topics nor be a universally accepted form providing all necessary information to insurers. However, by utilizing this form as a means of providing project-specific information on many critical items, it has the potential to preemptively address concerns and demonstrate that thorough processes for safety and property protection are in place.

## General Project Information

### 1. Project Overview

Project name \_\_\_\_\_

Address \_\_\_\_\_

Total number of stories \_\_\_\_\_

Number of stories of timber \_\_\_\_\_

Number of stories below grade \_\_\_\_\_

Height in feet \_\_\_\_\_

Total area (square feet) \_\_\_\_\_

Occupancy(ies) \_\_\_\_\_

2. Total insured value of project (\$ USD) \_\_\_\_\_

### 3. What mass timber products are being used on the project (select all that apply)?

Glue-Laminated Timber (Glulam) – beam/column application

Cross-Laminated Timber (CLT)

Dowel-Laminated Timber (DLT)

Nail-Laminated Timber (NLT)

Glue-Laminated Timber (GLT) – floor/roof/wall application

Structural Composite Lumber (SCL)

Heavy Timber – beams/columns/decking application

Other (describe) \_\_\_\_\_

### 4. What materials are being used for the main structural elements (beams, columns, bearing walls)?

All mass timber

Mass timber and steel hybrid

Mass timber and concrete hybrid

Mass timber, steel and concrete hybrid

Other (describe) \_\_\_\_\_



**5. What is the project's vertical lateral force-resisting system (to resist wind and seismic forces)?**

- Light wood-frame shear walls
- Mass timber shear walls
- Timber braced frames
- Structural steel braced frames/moment frames
- Concrete shear walls
- Masonry shear walls
- Cold-formed steel shear walls
- Other (describe) \_\_\_\_\_

**6. What is the construction of the vertical egress components (i.e., stair and elevator shafts)?**

- Mass timber
- Concrete
- Masonry
- Cold-formed steel stud walls
- Light wood-frame stud walls
- Other (describe) \_\_\_\_\_

**7. What is the construction of interior partition walls?**

- Light wood-frame stud walls
- Cold-formed steel stud walls
- Other (describe) \_\_\_\_\_

**8. Building Code Compliance**

What is the International Building Code (IBC) construction type? \_\_\_\_\_

Which version of the IBC is the building being permitted under? \_\_\_\_\_

Are any variances being requested of the building department?  Yes  No

Will this be the first mass timber project in this jurisdiction?  Yes  No

**9. What is the current stage of design completion?** \_\_\_\_\_

**10. Has a building permit been obtained for the project?**  Yes  No

**11. If a building permit has not yet been obtained, to what extent have conversations on the project been carried out with the Authority Having Jurisdiction (AHJ)?** \_\_\_\_\_

Is the AHJ familiar with mass timber?  Yes  No

Does the AHJ have concerns regarding the use of mass timber in general and/or specific to this project?  
 Yes  No

**12. What is the required fire-resistance rating of the structural elements?**

Beams, columns, bearing walls \_\_\_\_\_

Floor assemblies \_\_\_\_\_

Roof assembly \_\_\_\_\_



**13. How are the fire-resistance ratings of the above members and assemblies being achieved? (check all that apply)**

- Inherent fire-resistance of the mass timber (i.e., charring)
- »  Tested assemblies
- »  Calculated approach (NDS Chapter 16)
- Mass timber is covered with non-combustible materials (i.e., gypsum board)
- Other (describe) \_\_\_\_\_

**14. Will the top sides of the mass timber floor panels receive a concrete or gypsum-based poured topping material?**  Yes  No

If no, will other materials be installed on the top side of the mass timber floor panels?  Yes  No

**15. Is the building sprinklered?**  Yes  No

Describe the sprinkler system (NFPA 13 or 13R, ceiling mounted heads or sidewall heads, other characteristics, supply source, etc). \_\_\_\_\_

When will the sprinkler system be installed and activated? \_\_\_\_\_

Will there be temporary sprinkler coverage/standpipes during/throughout construction?  Yes  No

**16. Describe the mechanical systems being used for air distribution, heating and cooling.**

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Will these systems require vertical shafts and, if so, describe the construction of the shafts.  Yes  No

Will these systems require horizontal and vertical penetrations through the mass timber elements?

Yes  No

» If yes, will these penetrations be cut/drilled in the mass timber manufacturer's facility or on site?

Manufacturer's facility  On site

Describe firestop systems to be used at penetrations of mass timber members and assemblies.

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**17. Is the project in a wildfire-susceptible zone?**  Yes  No If yes, describe safeguards.

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## Site Safety Measures

### 1. What site security measures are being implemented?

- Fencing
- Cameras (type) \_\_\_\_\_
- Lighting
- On-site guard (hours) \_\_\_\_\_
- Others \_\_\_\_\_

### 2. When will site security measures start and terminate relative to construction start and termination date?

\_\_\_\_\_

### 3. Coordination with Local Police Department

Has coordination with the local police department taken place to discuss the project and site security measures being taken?     Yes     No

Describe local crime rate, CoreLogic crime scores, etc. \_\_\_\_\_

### 4. Construction Site Fire Safety

Describe hot work safety measures. \_\_\_\_\_

Describe plan for removal of construction debris and other housekeeping measures.

\_\_\_\_\_

Presence of fire extinguishers (meets or exceeds NFPA applicable standards?)     Yes     No

Presence of temporary standpipes     Yes     No

Describe compliance measures in accordance with NFPA 221. \_\_\_\_\_

Other measures \_\_\_\_\_

### 5. Coordination with Local Fire Department

Capability of local fire department to address a fire in this building considering project size and unique site constraints (if any)

\_\_\_\_\_

\_\_\_\_\_

Distance of serving fire department to project site \_\_\_\_\_

Describe any permanent water supply available (such as fire hydrants) to site prior to delivery of mass timber.

\_\_\_\_\_

Describe access around site perimeter for fire department.

\_\_\_\_\_

### 6. Will project require temporary heating during construction?    Yes    No

If yes, describe type and fuel source(s).

\_\_\_\_\_



## Material Procurement and Transport

### 1. Mass Timber Product Transportation

Transportation method (truck, rail, barge, etc.) \_\_\_\_\_

Distance from manufacturer's facility to project site \_\_\_\_\_

Describe method for tracking materials during transport such as QR codes, GPS tracking, etc.

\_\_\_\_\_

Describe communication and coordination methods in place prior to and during transport, specifically between the contractor and manufacturer.

\_\_\_\_\_

Are the loss limits of the transporter's insurance adequate to cover the value of materials in each shipment?

Yes  No

### 2. Is off-site storage of mass timber materials required? Yes No

Duration of time between mass timber arriving on site and its installation \_\_\_\_\_

Address of off-site storage and distance from jobsite \_\_\_\_\_

Approximate value of mass timber materials stored at off-site locations (\$ USD) \_\_\_\_\_

Describe security measures in place to monitor off-site storage locations

\_\_\_\_\_

Is any pre-assembly or additional fabrication taking place at the offsite storage locations?  Yes  No

How will materials be moved from offsite storage to job site?

\_\_\_\_\_

### 3. How many loads of mass timber materials per day will be received? \_\_\_\_\_

Who is responsible for receiving materials? \_\_\_\_\_

Protocol for material receipt (checking inventory, inspecting for damage)

\_\_\_\_\_

How will materials be stacked?

\_\_\_\_\_

Protocol for inspection of stored materials

\_\_\_\_\_

How will materials be unloaded?

\_\_\_\_\_



**4. Are special transport permits required?**     Yes     No

Is a police or other escort necessary?     Yes     No

Will there be oversized loads, or other concerns such as narrow streets, small bridges, etc. during material transport?     Yes     No

Will the project require closing one or more streets at the jobsite during delivery and/or throughout construction?     Yes     No

**5. If mass timber materials are coming from outside of the US, are there any unique customs, tariffs or other concerns with material transport and receipt?**     Yes     No

**6. Mass Timber Supplier**

Company \_\_\_\_\_

Location (if more than one facility, which is servicing this project?) \_\_\_\_\_

Annual production capacity \_\_\_\_\_

How long have they been producing mass timber for construction use? \_\_\_\_\_

Number of projects supplied \_\_\_\_\_

If CLT is being used, is it certified according to PRG 320?     Yes     No

If glulam is being used, is it certified to ANSI A190.1?     Yes     No

Provide other pertinent material certifications and test reports along with this questionnaire.

Describe QA/QC and auditing processes in place with mass timber manufacturer's facility.

\_\_\_\_\_

Will the manufacturer have a representative on site during installation?     Yes     No

Manufacturer's track record for on-time material delivery? \_\_\_\_\_

**7. General Contractor/Construction Manager**

Company and contact \_\_\_\_\_

Project superintendent \_\_\_\_\_

Previous mass timber experience?     Yes     No

If yes, list projects and scales.

\_\_\_\_\_

**8. Mass Timber Installer**

Company and contact \_\_\_\_\_

Prequalification and selection process used \_\_\_\_\_

Previous mass timber experience?     Yes     No

If yes, list projects and scales.

\_\_\_\_\_



**9. If this is a hybrid structural system (i.e., mass timber and at least one other material are being used in combination as the structural components):**

Is the mass timber installer also installing the other structural systems?  Yes  No

If not, who is installing the other structural systems? \_\_\_\_\_

Explain strategies in place to make sure installers understand the nuances of working with or near mass timber.

\_\_\_\_\_

How are differential material tolerances and movement being accommodated?

\_\_\_\_\_

Are vertical movements being monitored during construction?  Yes  No

If yes, describe the monitoring process.

\_\_\_\_\_

**10. Architect**

Company and contact \_\_\_\_\_

Previous mass timber experience?  Yes  No

If yes, list projects and scales.

\_\_\_\_\_

**11. Mass Timber Engineer and/or Structural Engineer of Record (SEOR)**

Company and contact \_\_\_\_\_

Previous mass timber experience?  Yes  No

If yes, list projects and scales.

\_\_\_\_\_

**12. Owner/Developer**

Company and contact \_\_\_\_\_

Previous mass timber experience?  Yes  No

If yes, list projects and scales.

\_\_\_\_\_

**13. Describe the contract structure for construction and material supply.**

- GC is self-performing install, purchasing mass timber package directly.
- GC is hiring a sub-contractor who is providing a turnkey solution for mass timber procurement and install.
- GC is procuring mass timber package; a sub-contractor is hired by GC to install mass timber.
- Owner is procuring mass timber package; a sub-contractor is hired by owner to install mass timber.
- Other (describe) \_\_\_\_\_



**14. Are connections/steel hardware off the shelf or custom-fabricated?**

- Off the shelf    Custom-fabricated

Who is the connections/hardware supplier? \_\_\_\_\_

Is hardware being installed on site or in the mass timber manufacturer factory? \_\_\_\_\_

Do details and connections used incorporate feedback from the manufacturer regarding best practices?

- Yes    No

**15. Are extra panels/beams/columns being sent to the site with the mass timber package in case of damage?**

- Yes    No

What plan is in place if replacement panels are needed?

\_\_\_\_\_

How soon will the mass timber manufacturer fabricate replacement panels/beams/columns if they are needed?

\_\_\_\_\_

How will replacement panels/beams/columns be transported to the site for expedited delivery?

\_\_\_\_\_

**16. Value of Mass Timber Package**

Total value of mass timber package (\$ USD) \_\_\_\_\_

Value of mass timber package as a % of total project hard costs \_\_\_\_\_

% of mass timber package cost directly in materials \_\_\_\_\_

% of mass timber package cost in labor and overhead \_\_\_\_\_





## Install and Site Management

**1. On-site moisture & UV protection. It is suggested that the contractor develop a moisture management plan that is shared with the insurer.**

What methods are being used to protect mass timber from moisture & UV exposure once on site?

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What methods are being used to monitor moisture content of wood? \_\_\_\_\_

What methods are being used to dry the mass timber prior to installing coverings?

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Are remote sensors being used for moisture monitoring and/or leak detection?  Yes  No

What is the plan when a heavy rain or snow event occurs off hours?

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Will steel members be painted or coated to avoid rust staining of the timber?  Yes  No

**2. Are protective coatings being applied to mass timber elements?**  Yes  No

Are these coatings being installed in the mass timber manufacturer's facility, on site or both? \_\_\_\_\_

**3. Describe other on-site damage protection measures to be implemented.**

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**4. Exterior Walls**

Describe the entire enclosure assembly. \_\_\_\_\_

Are exterior walls prefabricated/panelized off site or built on site?  Off site  On site

How soon after timber install is complete until enclosure install? \_\_\_\_\_

Are temporary walls/windows/doors being installed to aid in moisture protection during construction?

Yes  No

Is a building science/enclosure consultant involved in the project?  Yes  No

If yes, company and contact \_\_\_\_\_

**5. Roof Assembly**

Describe the entire enclosure assembly.

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Will there be a temporary roof installed when MT roof panels are installed?  Yes  No

How long from mass timber roof panel installation to permanent roofing enclosure completion? \_\_\_\_\_

**6. What plans are in place for a preconstruction meeting?**

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Will there be mockups?  Yes  No If yes, describe each including intent/purpose.

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7. What is the schedule and purpose for on-site meetings once construction starts?

\_\_\_\_\_

8. Is the project designed for disassembly or reuse?  Yes  No

9. Is the project designed for progressive collapse?  Yes  No

Describe any other resilient design strategies used on the project.

\_\_\_\_\_

10. Describe the integration strategy for mechanical, electrical, plumbing and fire protection (MEPF) elements within the mass timber.

\_\_\_\_\_

Is there a 3D model for coordination and design?  Yes  No

Who is responsible for updating and coordinating the model for items such as MEPF penetrations, clashes and differential material integration? \_\_\_\_\_

11. What is the total construction duration? \_\_\_\_\_

Anticipated construction start date \_\_\_\_\_

Anticipated mass timber install date \_\_\_\_\_

Anticipated mass timber install completion date \_\_\_\_\_

Anticipated construction completion date \_\_\_\_\_

Anticipated rainfall/snowfall during this time? \_\_\_\_\_

12. Describe types/frequency of on-site third-party inspections, audits, QA/QC.

\_\_\_\_\_

13. Describe the crane type being used.

\_\_\_\_\_

What are the anticipated daily hours of operation for the crane? \_\_\_\_\_

What is the total duration that the crane will be on site? \_\_\_\_\_

Will an engineered erection and bracing plan be developed, and if so by who? \_\_\_\_\_