

Commercial/Industrial Truss Submittal Requirements

2016 California Building Code, Section 2303.4 Trusses.

In addition to all other requirements of the 2016 California Building Code, the following shall be included with all truss designs submitted to the Permit Center for review. Trusses may not be installed prior to Permit Center review and approval.

1. Roof and floor framing plan:

- Location and spacing of all trusses
- Each truss with a separate designation referenced to the truss drawing for different shapes, spans, or loading conditions.
- Indicate all truss bearing points
- Any concentrated loads (equipment, structural members, etc.)
- Any bottom chord bearing conditions other than standard, such as hangers used for truss support, drop ceilings supported by trusses, etc.
- Any load bearing beams, girders, and columns intended to support trusses
- Identify all trusses transferring lateral force where required by the project engineer or architect of record

2. Truss drawing sheets including:

- Name of project and truss fabricator
- Name of plate manufacturer (product must also be list by an approved agency)
- Identification of all trusses referenced to layout sheet
- Exact span, shape, and web configurations
- Truss spacing and duration factor
- Size and gauge of metal plates at each joint
- Lumber specifications including species, grade, and size for chords and webs
- All design loads for top and bottom chords (dead and live, uniform and concentrated)
- Forces in each member and a notation as to whether forces are in tension or compression
- Minimum allowed bearing area for each truss
- Wet signature and seal of design engineer or architect
- Reviewed stamp of project engineer or architect if project is not conventional design and was designed by an engineer or architect
- Level of lateral load, if any. Consult with the project designer for values to be used for computer analysis.

Note: The Permit Center reviewed truss drawings with layout sheets and framing plans must be available at the jobsite for the City of Livermore Building Inspector.

3. 2016 CBC Section 1704, Special Inspections

- Each truss fabricator shall retain an independent special inspection agency which has prior approval by the City of Livermore Permit Center. The inspection agency may not have any financial interest in the plant being inspected.
- The inspection agency shall make non-scheduled inspections of truss fabrication, delivery and operations.
- Inspections shall cover all phases of truss operation, including lumber storage, handling, cutting, fixtures, presses or rollers, fabrication, bundling and banding, handling and delivery.
- The special inspection reports must be submitted to the City of Livermore Permit Center.

Exception: CBC Section 1704.2.5.1 Fabricator Approval

- Special inspections are not required where the work is done on the premises of a fabricator registered and approved to perform such work without special inspection.
- Registration and approval shall be based upon review of the fabricator's written procedural and quality control manuals and by periodic auditing of fabrication practices by an approved special inspection agency (approved by the City of Livermore Permit Center).
- At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the Permit Center stating that the work was performed in accordance with the approved construction documents.

4. 2016 CBC Section 1703.5.3 Label Information; 1703.5.4 Method of Labeling

- Each truss shall be labeled. The label shall contain the manufacturer's identification, the truss model number or serial number and definitive information describing the product and performance characteristics and the approved agency's identification.
- Wood truss must be permanently identified and cannot be removed without being destroyed.