

WOOD FRAMING

REFERENCE STANDARDS: Conform to:

- (1) IBC Chapter 23 "WOOD"
(2) NDS - "2005 National Design Specification (NDS) for Wood Construction"
(3) APA PDS-97 Plywood Design Specification (revised 1998)
(4) ANS/ITP-1 "National Design Standard for Metal-Plate-Connected Wood Truss Construction"
(5) BCSI "Guide to Good Practice for Handling, Installing & Bracing of Metal Plated Connected Wood Trusses"
(6) TPI DSB "Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Trusses"
(7) APA Report TT-045B "Minimum Nail Penetration for Wood Structural Panel Connections Subject to Lateral Loads"

SUBMITTALS: Submit shop drawings to the Architect/Engineer for review. Shop drawings shall include member size, spacing, camber, material type, grade, shop and field assembly details and connections, types and location of bolts and other fasteners. Supply shop drawings for the following:

- (1) Glued laminated members
(2) PSL members
(3) LVL members
(4) LSL members
(5) Tapered & Parallel Wood Joists (Solid web-wood joists)
(6) Panelized wood walls & connection details
(7) Wood Tie-Down Systems

IDENTIFICATION: All sawn lumber and pre-manufactured wood products shall be identified by the grade mark or a certificate of inspection issued by the certifying agency.

MATERIALS:

- Sawn Lumber: Conform to grading rules of WWP, WCLB or NLGA and Table below. Finger jointed studs acceptable at interior walls only.

TABLE of SOLID SAWN LUMBER

Table with 4 columns: Member Use, Size, Species, Grade. Rows include Wall Stud, Sill Plate, Floor or Roof Joist.

- Wood Structural Sheathing (Plywood): Wood APA-rated structural sheathing includes: all veneer plywood, oriented strand board, waferboard, particleboard, T1-11 siding, and composites of veneer and wood based material with T&G joint.

TABLE of SHEATHING - Use, Minimum Thickness and Minimum APA Rating

Table with 5 columns: Location, Thickness, Span Rating, Plywood Grade, Exposure. Rows for Roof, Floor, Walls.

Unless noted otherwise on drawings, install roof and floor panels with long dimension across supports and with panel continuous over two or more spans. End joints shall occur over supports.

- Timber Connectors: Shall be "Strong Tie" by Simpson Company as specified in their latest catalog. Alternate connectors by other manufacturers may be substituted provided they have current ICC approval for equivalent or greater load capacities and are reviewed and approved by the SER prior to ordering.

Where connectors are in exposed exterior applications in contact with preservative treated wood (PT) other than CCA, connectors shall be either batch hot-dipped galvanized (HDG), mechanically galvanized (ASTM B695, Class 40 or greater) stainless steel, or provided with 1.85 oz/sf of zinc galvanizing equal to or better than Simpson ZMAX finish.

- Fasteners (nails, bolts, screws, etc) attaching timber connectors (joist hangers, post caps and bases, etc) to PT wood shall have similar corrosion resistance properties (matching protective treatments) as the protected connector.

Provide washers under the heads and nuts of all bolts and lag screws bearing on wood. All nails 12d and smaller shall be full length common unless noted otherwise. 16d nails may be 16d sinkers unless noted otherwise.

- Fasteners: Conform to IBC Section 2304.9 "Connections and fasteners." Unless noted on plans, nail per Table 2304.9.1. Unless noted otherwise all nails shall be common.

- Lag Bolts/Bolts: Conform to ASTM A307 and IBC Section 2304.9.

- Engineered Wood Products (Truss/Joint): The following materials are based on lumber manufactured by TrusJoist and were used for the spans and conditions shown on the plans.

- Laminated Veneer Lumber (LVL): Conform to ICC ES Report No. ESR-1387 or CCMC Report No. 08675-R.
Parallel Strand Lumber (PSL): Conform to ICC ES Report No. ESR-1387 or CCMC Report No. 11161-R.
Laminated Strand Lumber (LSL): Conform to ICC ES Report No. ESR-1387 or CCMC Report No. 12627-R.
Tapered and Parallel Chord I-JOISTS (Deferred Submittal): Conform to ICC Report No. ESR-1163.

TABLE of ENGINEERED WOOD Requirements

Table with 7 columns: Type, Use, Widths, E(10^6), Fb, Fv, Fc//. Rows include LSL Rimboard, Timberstrand LSL, Timberstrand LSL, Timberstrand LSL, Microllam LVL, Parallam PSL, Parallam PSL.

NAILING REQUIREMENTS: Provide minimum nailing in accordance with IBC Table 2304.9.1. "Fastening Schedule" except as noted on the drawings. Nailing for roof/floor diaphragms/shear walls shall be per drawings. Nails shall be driven flush and shall not fracture the surface of sheathing.

STANDARD LIGHT-FRAME CONSTRUCTION: Unless noted on the plans, construction shall conform to IBC Section 2308 "Conventional Light-Frame Construction."

NAILERS ON STEEL COLUMNS and BEAMS: Wood 3x nailers are generally required on all HSS columns and steel beams abutting or embedded within wood framing. Unless noted otherwise, attach with 5/8" diameter bolts or welded studs at 16" on centers.

MOISTURE CONTENT: Wood material used for this project shall have maximum moisture content of 19% except for the pressure-treated wood sill plate. Refer to TESTING & INSPECTIONS for the verification of these limits.

CLADDING COMPATIBILITY: The Architect/Owner shall review the cladding and insulation systems proposed for the project with respect to their performance over wood studs with moisture contents greater than 19%. EIFS systems should be avoided on wood-framed projects due to problems with moisture proofing.

PRESERVATIVE TREATMENT (PT): Wood materials are required to be "treated wood" in accordance with IBC Section 2304.11. "Decay and Termite Protection" shall conform to the appropriate standards of the American Wood-Preservers Association (AWPA) for sawn lumber, glued laminated timber, round poles, wood piles and marine piles.

Mud sill plates in normally dry interior applications may be treated with Sodium Borate (DOT - Disodium Octaborate Tetrahydrate) as recent studies have noted less connector corrosion potential than other available wood treatments or the original CCA treated sill plates.

If using sill plates other than CCA or sodium borate, fasteners must be hot dipped galvanized or stainless steel. Fasteners (nails, bolts, screws, washers & lag screws) attaching timber connectors (joist hangers, post caps and bases, etc) to PT wood shall have similar corrosion resistance properties (matching protective treatments) as the protected connector.

Always verify the suitability of the fastener protection/coating with the wood treatment chemical manufacturer/supplier.

DRAWING LEGEND

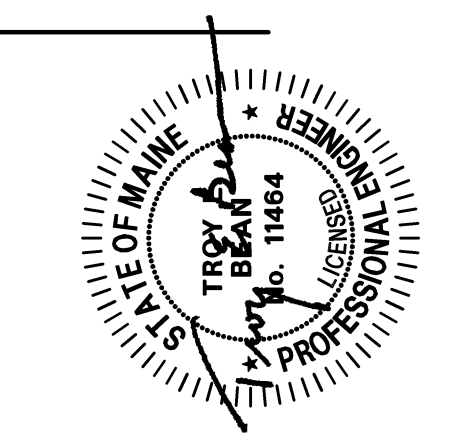
Table with 4 columns: MARK, DESCRIPTION, MARK, DESCRIPTION. Contains symbols and descriptions for various construction elements like footing, pile cap, wall, studs, etc.

ABBREVIATIONS

Table with 4 columns: Abbreviation, Full Name, Abbreviation, Full Name. Lists various construction abbreviations like ANGLE, FOUNDATION, FINISH, etc.

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Table with 2 columns: ISSUED / REVISED, DATE. Shows QA SET and LL/PERMIT SET.

STRUCTURAL GENERAL NOTES, LEGEND AND ABBREVIATIONS S-103