

DIVISION 6 - WOOD, PLASTIC AND COMPOSITES

**SECTION 06 10 00 - ROUGH CARPENTRY**

**PART 1 GENERAL**

1.1 SECTION INCLUDES

- A. Furnish all labor, materials, equipment, appliances, transportation and scaffolding necessary to complete the rough carpentry work as shown on or reasonably implied by the Drawings or Specifications. This includes, but is not limited to:
  - 1. All rough carpentry work including setting hollow metal door frames.

1.2 REFERENCES

- A. ALSC: American Lumber Standards Committee - Softwood Lumber Standards.
- B. ANSI A208.1 - Mat-Formed Wood Particleboard.
- C. APA: American Plywood Association.
- D. AWWA: American Wood Preservers Association C1 - All Timber Products Preservative Treatment by Pressure Process.
- E. AWWA: American Wood Preservers Association C20 - Structural Lumber Fire Retardant Treatment by Pressure Process.
- F. NFPA: National Forest Products Association.
- G. WCLIB: West Coast Lumber Inspection Bureau.
- H. WWPA: Western Wood Products Association.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 10 00.
- B. Shop Drawings, where appropriate.
- C. Manufacturer's Certificate: Where appropriate, certify that products meet or exceed specified requirements.

1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with reference documents.
- B. Maintain one copy of each installation related reference document, on site.

1.5 QUALIFICATIONS

- A. Subcontractor specializing in performing the work of this Section, with a minimum of 10 years documented experience.

1.6 COORDINATION

- A. Coordinate this work with other related Sections of Work.

1.7 WARRANTY

- A. In accordance with the General Conditions of the Construction Contract.

**PART 2 PRODUCTS**

2.1 PLYWOOD

- A. All plywood is to be Douglas fir, graded as per U.S. Product Standard PS-1, of the

thickness noted.

1. APA C-C Plugged and Sanded, Group 2, Exterior - for unfinished utility applications.
  2. APA A-C, Group 1, Exterior - for painted applications.
  3. Where specifically noted, APA Medium Density Overlay (MDO), Group 1, Exterior, of thickness noted.
  4. Wall Sheathing: APA Rated Sheathing, as noted in the drawings; as a wall diaphragm where called for.
  5. Floor Sheathing: APA Rated Sheathing, as noted in the drawings; as a floor diaphragm where called for.
  6. Roof Sheathing: APA Rated Sheathing, as noted in the drawings; as a roof diaphragm where called for.
- B. APA recommendations shall be followed for sheet edge support; solid blocking, tongue-and-groove edges, or "ply-clips" (except that the latter are not to be used at floors).

## 2.2 MISCELLANEOUS MATERIALS

- A. All framing in contact with (or within 1" of) masonry or concrete shall have a pressure preservative treatment that is non-corrosive to metal connectors and nails in the presence of moisture.
1. Pentachlorophenol or an approved alternate. Net retention is to be 0.40 pcf, in accordance with AWPA.
  2. Penetration damage incurred during handling, field cuts, field drilling, etc. are to be treated in accordance with AWPA.
- B. Where called for, or required, fire-retardant treated lumber shall be used.
- C. Underlayment: Structural particleboard, with smooth sanded faces, of thickness called for.
- D. Isolation Material: Where called for at structural separations such as Warehouse/ Office Structure junctures - watertight, compressible, pre-formed, isolation joint material.
- E. Polybutylene saturated polyurethane foam; Willseal 150 as manufactured by Tremco Inc., or an approved alternate.

## 2.3 ACCESSORIES

- A. Bolting Anchors: "Wedge-Type", of diameter as noted.
1. Approved Manufacturer's:
    - a. "KWIK BOLT Wedge Anchors", as manufactured by Hilti, Inc.
    - b. "R-DCA Wedge Anchor", as manufactured by the Rawlplug Company.
  2. Where not specifically called for, lengths and minimum embedment must be as recommended by the manufacturer for the thickness of the fastened member.
  3. Data submitted for the units to be used shall be accompanied by an ICBO Evaluation Report, or similar data for the governing code at the place where the Project is located
- B. Any bolt head or nut bearing against wood shall be provided with malleable iron washers; only at sill plates will cut washers be accepted.
- C. Framing Connections: Unless specifically noted otherwise, "Strong Tie" as manufactured by the Simpson Co.

1. If alternate items are used, it shall be the responsibility of the subcontractor to ensure that the item substituted is equivalent in size and carrying capacity to the item called for.

### **PART 3 EXECUTION**

#### **3.1 EXAMINATION**

- A. Verify that field connections are acceptable and are ready to receive work. Ensure that dimensions agree with drawings.
  1. Special attention shall be given to verification of stubbed-up bolts at foundations, embedded or other anchorage items, etc.

#### **3.2 PLYWOOD APPLICATION**

- A. At walls, plywood shall be installed with a minimum space of 1/8" between sheet edges, to permit expansion.
- B. At floors, plywood shall be installed with sheet edges touching.
- C. At roofs, except for T & G material, plywood shall be installed with edges touching; after nailing, all joints shall be saw cut to permit expansion.
- D. Plywood shall be installed with sheet lengths at right angles to support framing, and with sheet ends staggered; ends shall occur at centers of framing members.
- E. Unless specifically noted otherwise, and except for T & G edges, all edges shall be solid blocked.
- F. Tops of all floor support members shall have a continuous 3/16" minimum bead of waterproof, carpentry adhesive.
- G. Where not specifically noted nailing spacing is to be the following, as a minimum:
  1. 6" on center at all edges and 12" on center at intermediate supports.
- H. Where not specifically noted, nail sizes are to be the following, as a minimum.
  1. 1/2" Wall Sheathing - 10d common nails.
  2. 1/2" Floor or Roof Sheathing - 8d common nails.
  3. 5/8" or 3/4" Floor or Roof Sheathing - 10d common nails.
- I. For diaphragm sheathing, nailing shall be as specifically noted or scheduled.

#### **3.3 FIELD QUALITY CONTROL**

- A. Provide free access to Work and cooperate with the appointed firm.
- B. Any necessary corrective measures, and re-inspection, are to be at no additional cost to the Owner.

### **PART 4 COMPLETION**

#### **4.1 CLEANUP**

- A. All work shall be left clean and undamaged.
- B. Refer to pertinent portions of Section 01 10 00 – General Conditions.

**END OF SECTION**