

**SECTION 06 10 05**  
**MISCELLANEOUS CARPENTRY**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section includes:
  - 1. Plywood telephone and electrical backer boards.
  - 2. Sheathing.
  - 3. Miscellaneous lumber for support or attachment of other construction.

**1.2 SUBMITTALS**

- A. Product Data: Submit manufacturer's data for each type of chemical treatment products indicated.

**1.3 QUALITY ASSURANCE**

- A. Standards: Conform to requirements of American Plywood Association, U. S. Dept. of Commerce Commercial Standards and American Wood Preservers Association Standards, as they apply.

**1.4 DELIVERY, STORAGE, AND HANDLING**

- A. Packing and Shipping: Deliver materials to site in manufacturer's original unopened packaging with labels intact.
- B. Storing:
  - 1. Store off ground to assure adequate ventilation, and protect against damage while stored at the site.
  - 2. Store materials for which a maximum moisture is specified in areas where humidity can be controlled.

**PART 2 - PRODUCTS**

**2.1 WOOD PRODUCTS**

- A. General: Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
- B. Lumber Grades: As follows unless noted differently on the Structural Drawings:
  - 1. Misc. blocking, bridging, etc: Construction grade, or No. 2.
  - 2. Grounds and furring: Construction Grade Douglas Fir or No. 2 White Pine.
- C. Softwood Plywood: DOC PS 1. Thickness as indicated on Drawings.

- D. Plywood Backing Panels: DOC PS 1, Exposure 1, C-D Plugged, fire-retardant treated, 15/16 inches thick unless otherwise indicated.
- E. Oriented Strand Board: DOC PS 2, exposure 1.
  - 1. Thickness: As indicated on Drawings.
- F. Moisture Content:
  - 1. Lumber shall be air-dried or kiln-dried.
  - 2. At time of installation, moisture content, expressed as a percentage of the weight of the oven-dry wood, shall not exceed 19 percent for lumber of up to two inches nominal thickness and 15 percent for plywood.
  - 3. Moisture content of lumber over two inches nominal thickness shall conform to the rules of the association under which it is graded.

## **2.2 FACTORY TREATMENT MATERIALS**

- A. Preservative Treatment: AWPA C2 (lumber) and AWPA C9 (plywood)
  - 1. Materials:
    - a. Provide ammoniacal copper quaternary (ACQ) or copper boron azole (CBA).
    - b. Chromated copper arsenate (CCA) is not allowed.
  - 2. Locations:
    - a. Wood members in connection with roofing, flashing, vapor barriers, and waterproofing.
    - b. Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete, located at or below grade.
    - c. Other locations as required by Code.
- B. Fire Retardant Treatment: Comply with performance requirements in AWPA C20 (lumber) and AWPA C27 (plywood). Identify fire-retardant-treated wood with appropriate classification marking of UL, U.S. Testing, Timber Products Inspection, or another testing and inspecting agency acceptable to authorities having jurisdiction.
  - 1. Use treatment for which chemical manufacturer publishes physical properties of treated wood after exposure to elevated temperatures, when tested by a qualified independent testing agency according to ASTM D 5664, for lumber and ASTM D 5516, for plywood.
  - 2. Use treatment that does not promote corrosion of metal fasteners.
  - 3. Chemicals shall comply with FR-1 or AWPA Standard P17 and shall be free of halogens, sulfates and ammonium phosphate.

## **2.3 FASTENERS**

- A. General: Where carpentry is exposed to weather, in ground contact, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153.
- B. Nails: Common wire, meeting FS FF-N-101 of the sizes indicated on the Drawings.

- C. Bolts: Standard mild steel, square head machine bolts with square nuts and malleable iron or steel plate washers or carriage bolts with square nuts and cut washers as indicated. Bolts, nuts and washers, wholly or partially exposed on exterior shall be galvanized.
- D. Lag screws, shear plates and split ring connectors: Conform to requirements of the "National Design Specifications for Stress Grade Lumber and its Fastenings" of National Forest Products Association.
- E. Power-Driven Fasteners: CABO NER-272.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- A. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction. Provide fire-proofed wood backing approved by Building Official where required by Code in noncombustible or fire-rated construction.
- B. Plywood Backing Panels: Install with the "C" or best face on exposed side.
- C. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.
  - 1. Provide metal clips for fastening gypsum board or lath at corners and intersections where framing or blocking does not provide a surface for fastening edges of panels. Space clips not more than 16 inches o.c.
  - 2. Recess bolts and nuts flush with surfaces, unless otherwise indicated.
- D. Securely attach carpentry work as indicated and according to applicable codes and recognized standards.
- E. Countersink fastener heads on exposed carpentry work and fill holes with wood filler.
- F. Connections: Subdrill where necessary to avoid splitting.
- G. Bolts: Drill bolt holes 1/32 inch larger than bolt diameter. Use square plate or malleable iron washers under heads and nut where they bear against wood. Re-tighten bolts immediately prior to concealing with finish materials. Re-tighten exposed bolts immediately prior to final inspection by Building Official.
- H. Lag Screws and Screws: Subdrill, use square plate or malleable iron washer under lag screw heads when they bear on wood.

- I. Wall Sheathing:
  - 1. Screw to cold-formed metal framing.
  - 2. Space panels 1/8 inch apart at edges and ends.

### **3.2 CLEANING**

- A. During the course of the Work and on completion, remove excess materials, equipment and debris and dispose of away from premises.

END OF SECTION