

SECTION 06100 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Provide rough carpentry for all framing and where required for framing or support for Contractor's or Owner's equipment.
- B. Rough carpentry work includes:
 - 1. Wood framing.
 - 2. Sheathing.
 - 3. Wood blocking at all accessories and any other Owner or Contractor supplied equipment.
 - 4. Nailers, blocking, furring and sleepers.
 - 5. Fire-treated plywood for sheathing, all electric panels and interior partitions.
 - 6. Building paper.

1.2 SUBMITTALS

- A. Submit product literature and certificate of compliance for fire treated materials.
- B. Submit Shop Drawings indicating all blocking locations.
- C. Submit Shop Drawings in accordance with Section 01300.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Rough lumber shall be dressed four sides, kiln-dried, sound and free from splits, checks, shakes and wane and shall conform to the following grades:
 - 1. Studs, plates, and other structural lumber shall be S-P-F #2 grade and better, kiln dried, meeting the minimum stresses indicated on structural drawings unless otherwise noted.
 - 2. Construction Grade Eastern Hemlock or Eastern Spruce shall be used for blocking, nailers, strapping and other minor framing members where not otherwise designated.
- B. Treated Lumber: Lumber for roof nailers, curbing, cants and any wood used in conjunction with roofing shall be CA-B treated, Wolmanized Natural Select; kiln-dried or air-seasoned after treatment to an average moisture content of 16% or less; planed on all sides. Amount of preservative injected into lumber shall be .21pounds per cubic foot of wood.
- C. Plywood: Plywood shall comply with PS-1-74 and shall bear American Plywood Association stamp.
 - 1. Plywood for Rough Framing: "CDX" APA rated sheathing, Exposure 1, fir or southern yellow pine. Provide Structural 1 panels for shear walls. Fire-retardant treated at locations indicated.
- D. Rough Hardware:
 - 1. Nails, Spikes, and Staples: Galvanized for exterior locations, high humidity locations, and treated wood; plain finish for other interior locations; size and type to suit application.
 - 2. Bolts, Nuts, Washers, Lags, Pins, and Screws: Medium carbon steel, unless otherwise indicated; sized to suit application; galvanized for exterior locations, high humidity locations, and treated wood.
 - 3. Fasteners: Toggle bolt type for anchorage to hollow masonry, expansion shield and lag bolt type for anchorage to solid masonry or concrete, bolts or power activated type for anchorage to steel.
 - 4. Sheathing to Metal Framing: Hilti Kwik-Flex or Elco Dril-Flex; no substitution allowed, 10-24 x 1-1/4" wafer head #3.
 - 5. All fasteners into preservative treated wood shall be stainless steel.
- E. Building Paper: 15 lb. asphalt impregnated felt paper

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Consult the Specifications under other Sections of these Specifications and any rough carpentry work or materials, which are not specified under these headings and which are necessary or required for the receiving and thorough completion of the work, including the work of any Contractor employed directly by the Owner, shall be done under this Section.
- B. Workmanship shall be first-class throughout. None but competent carpenters shall be employed. All framing shall be true and exact, and all work on completion shall present a clean, neat appearance with tight, square joints.
- C. Framing shall be in accordance with the Drawings and shall be closely fitted and accurately set to the required lines. All framing shall be rigidly spiked, bolted, anchored, nailed and fastened in place in the most secure and permanent manner. All framing members exposed to view in the finish structure shall be sanded smooth before installation. Care shall be taken in selecting of exposed members, and in preventing damage to them during construction. Correct any twisted members.
- D. Furnish and set all blocking required to erect all exterior and interior finish woodwork or wall materials, plumbing, and electric fixtures and other mechanical equipment, lookouts, wood bricks, rough bucks, and all blocking and furring necessary with roofing work.
- E. All wood nailers and bucks in connection with masonry and concrete shall be preservative treated lumber.
- F. Rough Hardware: Furnish all hardware not requiring special finish, including nails, screws, anchors, anchor bolts, joist hangers, clip angles, etc., as required to erect and fasten the work.
- G. Attach plywood to framing members as indicated on the drawings and in accordance with recommendations published by the American Plywood Association.
 - 1. Screw attach plywood to metal framing with self-tapping flat head screws, spaced in accordance with APA nail pattern.
- H. Perimeter Roof Nailers: Shall be installed at the perimeter of each roof level's curb flashing, expansion joints and similar penetrations.
 - 1. Anchor wood roof nailers to resist a force of 75 pounds per linear foot in any direction. The thickness of the nailer shall be such that the top of the nailer is flush with the surface to which the membrane is to be applied as shown on the roofing manufacturer's approved details.
- I. Install building paper starting from low to high overlapping edges 2-1/2" minimum and ends 6". Attach paper with tin disk and non-corrosive fasteners. Building paper shall not be left exposed more than 30 days.

END OF SECTION 06100