

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
1. Rooftop equipment bases and support curbs.
 2. Wood blocking and nailers.
 3. Wood furring and grounds.
 4. Wood sleepers.
 5. Wood shelving.
 6. Plywood wall boards and backing panels.
 7. Composite wood

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
1. Factory mark each piece of lumber with grade stamp of grading agency.
 2. Provide dressed lumber, S4S, unless otherwise indicated.
 3. Provide a minimum flame spread range of 76-200 (Class 'C'): provide at all exposed locations.

2.2 WOOD-PRESERVATIVE-TREATED MATERIALS

- A. Preservative Treatment by Pressure Process: AWPA C2, except that lumber that is not in contact with the ground and is continuously protected from liquid water may be treated according to AWPA C31 with inorganic boron (SBX).
1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.
- B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.
- C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
- D. Application: Treat items indicated on Drawings, and the following:
1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
 2. Wood sills, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
 3. Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.
 4. Wood framing members that are less than 18 inches above the ground in crawl spaces or unexcavated areas.
 5. Wood floor plates that are installed over concrete slabs-on-grade.

2.3 MISCELLANEOUS LUMBER

- A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
1. Blocking.
 2. Nailers.

ALDI Retail Facility

3. Rooftop equipment bases and support curbs.
4. Furring.
5. Grounds.
6. Utility shelving.

- B. For items of dimension lumber size, provide Construction or No. 2 grade lumber with 19 percent maximum moisture content of any species.
- C. For exposed boards, provide lumber with 19 percent maximum moisture content of eastern white pine, Idaho white, lodgepole, ponderosa, or sugar pine; Premium or 2 Common (Sterling) grade; NeLMA, NLGA, WCLIB, or WWPA.
- D. For concealed boards, provide lumber with 19 percent maximum moisture content and any of the following species and grades:
 1. Mixed southern pine, No. 2 grade; SPIB.
 2. Eastern softwoods, No. 2 Common grade; NELMA.
 3. Northern species, No. 2 Common grade; NLGA.
 4. Western woods, Construction or No. 2 Common grade; WCLIB or WWPA.

2.4 FIRE-RETARDANT-TREATED MATERIALS (To be used only when required on drawings and in all IIB construction classified buildings.)

- A. General: Comply with performance requirements in AWPA C20 (lumber) and AWPA U1, Specification H for Use Category UCFB (fire protection, exterior, above ground) and AWPA C27 (Exterior Type) (plywood).
 1. Use Exterior type for all locations and where indicated.
 2. Fire retardant treated wood shall be tested in accordance with ASTM D2898, Standard Practice for Accelerated Weathering of Fire Retardant Treated Wood for Fire Testing (Method A)
 3. Fire retardant treated wood shall be tested in accordance with ASTM E 84 or UL 723, shall have a listed flame spread index of 25 or less and show no evidence of significant progressive combustion when the test is continued for an additional 20 minute period. Additionally, the flame front shall not progress more than 10 ½ feet beyond the centerline of the burners at any time during the test.
- B. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Application: Treat all wood products as indicated on drawings.

2.5 SHELVING

- A. Shelving: Made from the following material, 3/4-inch thick.
- B. DOC PS 1, Exposure 1, C-D Plugged, in thickness indicated or, if not indicated, not less than 3/4-inch nominal thickness.
- C. Standards and Brackets Adjustable shelving supports shall be 6'-0" long (or as noted) No. 87ANO- Anachrome Heavy duty, with vertical shelf standards at 16" o.c. with 12" No. 187 heavy duty wall brackets as manufactured by Knappe and Vogt or approved equal. Provide and install vertical shelf rails for the utility room shelving. Color of the shelf rails and brackets shall be Anochrome. Attach standards into studs or wood backing. Color of fasteners shall match shelf standards.

2.6 PLYWOOD WALL PROTECTION AND BACKING PANELS

- A. Wall Protection: DOC PS 1, Exposure 1, A-C Plugged, in thickness indicated or, if not indicated, not less than 1/2-inch nominal thickness, use FRT Plywood when required.
- B. Telephone and Electrical Equipment Backing Panels: DOC PS 1, Exposure 1, A-C Plugged, in thickness indicated or, if not indicated, not less than 3/4-inch nominal thickness.

2.7 COMPOSITE WOOD

- A. Trash enclosure gate – Trex Select decking, 1.0" x 5.5", square edge, exposed fastener

ALDI Retail Facility

- B. Exposed fasteners: Trex stainless steel screws, type, gage and length as required; (3) per board at spacing indicated.

2.8 FASTENERS

- A. General: Where carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
- B. Power-Driven Fasteners: NES NER-272.
- C. Screws for Fastening to Cold-Formed Metal Framing: ASTM C 954, except with wafer heads and reamer wings, length as recommended by screw manufacturer for material being fastened.
- D. Screws for Fastening: 1/2" wall protection plywood to Cold-Formed Metal Framing: ASTM C 954, except with trim heads and reamer wings, length as recommended by screw manufacturer for material being fastened.

2.9 MISCELLANEOUS MATERIALS

- A. Flexible Flashing: Self-adhesive, rubberized-asphalt compound, bonded to a high-density, polyethylene film to produce an overall thickness of not less than 0.025 inch.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- 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.
- B. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.
- C. Framing Standard: Comply with AF&PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated.
- D. Do not splice structural members between supports, unless otherwise indicated.
- E. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
- F. Securely attach carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
 - 1. NES NER-272 for power-driven fasteners.
 - 2. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.

3.2 PROTECTION

- A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION 061053

SECTION 061600 - SHEATHING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Wall sheathing

1.2 SUBMITTALS

- A. Product Data:
 - 1. Building wrap weather-resistive barrier.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Stack panels flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 WALL SHEATHING

- A. Plywood Wall Sheathing: DOC PS1, Exterior grade CDX plywood.
 - 1. Type and Thickness: Regular, 5/8 inch thick.
 - 2. Where required on the drawings, provide 3/4 inch thick.
 - 3. Where required on the drawings, provide 1/2 inch thick exterior grade fire retardant CDX plywood.
 - 4. Where required on the drawings, provide 3/4 inch thick exterior grade fire retardant CDX plywood.
 - 5. Where required on the drawings, provide 1/2 inch thick Glass-Mat Gypsum Wall Sheathing: ASTM C 1177/1177M.

2.2 FASTENERS

- A. General: Provide fasteners of size and type indicated.
 - 1. For wall and roof sheathing panels, provide fasteners with corrosion-protective coating having a salt-spray resistance of more than 800 hours according to ASTM B 117.

2.3 BUILDING WRAP WEATHER-RESISTIVE BARRIER

- A. Building Wrap and Flexible Flashing: See 072500

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Securely attach to substrate by fastening as indicated, complying with the following:
 - 1. NES NER-272 for power-driven fasteners.
 - 2. Table 2304.9.1, "Fastening Schedule," in ICC's "International Building Code."
- B. Coordinate sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that exclude exterior moisture.
- C. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements.

3.2 PLYWOOD SHEATHING INSTALLATION

- A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.

ALDI Retail Facility

- B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.
- C. Securely attach to substrate by fastening as indicated, complying with the following:
 - 1. Table 2304.9.1, "Fastening Schedule," in the ICC's International Building Code.
 - 2. ICC-ES evaluation report for fastener.
- D. Coordinate sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.
- E. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements.

END OF SECTION 061600

SECTION 066400 - PLASTIC PANELING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes glass-fiber reinforced plastic (FRP) wall paneling and trim accessories.

1.2 QUALITY ASSURANCE

- A. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Flame-Spread Index: 25 or less.
 - 2. Smoke-Developed Index: 450 or less.

PART 2 - PRODUCTS

2.1 PLASTIC SHEET PANELING

- A. General: Gelcoat-finished, glass-fiber reinforced plastic panels complying with ASTM D 5319.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Marlite; Standard FRP or comparable product by one of the following:
 - a. Kemlite Company Inc.
 - b. Nudo Products, Inc.
 - 2. Nominal Thickness: Not less than 0.09 inch
 - 3. Surface Finish: Molded pebble texture.
 - 4. Color: P-151, Light Gray.

2.2 ACCESSORIES

- A. Trim Accessories: Manufacturer's standard one-piece vinyl extrusions designed to retain and cover edges of panels. Provide division bars, inside corners, and caps as needed to conceal edges.
 - 1. Color: Match panels.
- B. Adhesive: As recommended by plastic paneling manufacturer.
- C. Sealant: Single-component, mildew-resistant, neutral-curing silicone sealant recommended by plastic paneling manufacturer and complying with requirements in Division 07 Section "Joint Sealants."

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean substrates of substances that could impair bond of adhesive, including oil, grease, dirt, and dust.
- B. Condition panels by unpacking and placing in installation space before installation according to manufacturer's written recommendations.
- C. Lay out paneling before installing. Locate panel joints so that trimmed panels at corners are not less than 12 inches wide.

3.2 INSTALLATION

- A. Install plastic paneling according to manufacturer's written instructions.

ALDI Retail Facility

- B. Install panels in a full spread of adhesive.
- C. Install trim accessories with adhesive. Do not fasten through panels.
- D. Fill grooves in trim accessories with sealant before installing panels and bed inside corner trim in a bead of sealant.
- E. Maintain uniform space between panels and wall fixtures. Fill space with sealant.
- F. Remove excess sealant and smears as paneling is installed. Clean with solvent recommended by sealant manufacturer and then wipe with clean dry cloths until no residue remains.

END OF SECTION 066400