

SECTION 061600 - WOOD SHEATHING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.

1.2 SUMMARY

- A. Description:
 - 1. This section includes wall, floor, and roof sheathing.
- B. Related Documents and Standards:
 - 1. All referenced standards and cited publications shall be those specifically denoted within the applicable building code noted in the General Notes of the Construction Drawings.
 - 2. All Rough Carpentry work on this project shall confirm to the Construction Documents and applicable building code including referenced standards.
- C. Related Sections:
 - 1. Division 05 Specifications – Steel Construction.
 - 2. Division 06 Specification – Wood.

1.3 SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
 - 1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements. Indicate type of preservative used and net amount of preservative retained.
 - 2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements. Include physical properties of treated materials.
 - 3. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.
 - 4. Include copies of warranties from chemical treatment manufacturers for each type of treatment.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Immediately upon delivery to the job site, place materials in areas protected from weather.
- B. Stack plywood and other panels flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.
- C. Store materials a minimum of 6" above ground on blocking and cover with protected waterproof covering, providing for adequate air circulation and ventilation.

- D. Do not store seasoned materials in wet or damp portions of building.
- E. Protect sheet materials from breaking corners and damaging surfaces.

PART 2 - PRODUCTS

2.1 WOOD PANEL PRODUCTS, GENERAL

- A. Plywood: DOC PS 1.
- B. Oriented Strand Board: DOC PS 2.
- C. Thickness: As noted in the Construction Drawings
- D. Factory mark panels to indicate compliance with applicable standard.

2.2 PRESERVATIVE-TREATED PLYWOOD

- A. Preservative Treatment by Pressure Process: AWWA U1.
 - 1. Preservative Chemicals: Acceptable to authorities having jurisdiction.
- B. Mark plywood with appropriate classification marking of an inspection agency acceptable to authorities having jurisdiction.
- C. Application: Treat items indicated on Construction Drawings.

2.3 FIRE-RETARDANT-TREATED MATERIALS

- A. General: Comply with performance requirements in AWWA U1
- B. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency acceptable to authorities having jurisdiction.
 - 1. Where denoted on Construction Drawings, provide pigmented wood treatment for visual recognition of Fire-Retardant-Treated materials.
 - 2. For exposed sheathing indicated to receive a stained or natural finish, omit marking and provide certificates of treatment compliance issued by inspection agency, or use chemical formulations that do not bleed through, contain colorants, or otherwise adversely affect finishes.
- C. Application: Treat items indicated on Construction Drawings

2.4 WALL SHEATHING

- A. Oriented-Strand-Board Wall Sheathing shall be of a grade, species, and modulus of elasticity noted in the Construction Drawings
 - 1. Type and Thickness shall be as indicated in the Construction Drawings.
 - 2. Coordinate with Division 09 specifications.

2.5 ROOF SHEATHING

- A. Plywood Roof Sheathing shall be of a grade, species, and modulus of elasticity noted in the Construction Drawings.
- B. Oriented-Strand-Board Roof Sheathing shall be of a grade, species, and modulus of elasticity noted in the Construction Drawings

2.6 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture.
 - 1. Provide G90 hot-dipped galvanized steel or Type 304 stainless steel for components for all non-pressure treated and fire-retardant treated sheathing except nails shall be hot-dipped galvanized.
 - 2. Material and finish for use with pressure preservative treated components or exposed to weather shall be G185 hot-dipped galvanized steel or Type 316L stainless steel.
- B. Nails, Brads, and Staples: ASTM F 1667.
- C. Power-Driven Fasteners: NES NER-272.
- D. Wood Screws: ASME B18.6.1.
- E. Screws for Fastening Wood Structural Panels to Cold-Formed Steel Framing: shall be coordinated with Division 05 specifications.
- F. Screws for Fastening Gypsum Sheathing to Cold-Formed Steel Framing: shall be coordinated with Division 05 specifications.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- 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.
- 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 on Construction Drawings, complying with the following:
 - 1. NES NER-272 for power-driven fasteners.
 - 2. Governing Model Code with relevant Addenda, referenced in Construction Drawings, and all related and referenced Standards.
- D. Use common wire nails, unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections. Install fasteners without splitting wood.

- E. Coordinate wall and roof 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.
- F. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements.
- G. Coordinate sheathing installation with installation of materials installed over sheathing so sheathing is not exposed to precipitation or left exposed at end of the workday when rain is forecast.

3.2 WOOD STRUCTURAL PANEL INSTALLATION

- A. General: Comply with applicable recommendations in APA Form No. E30S, "Engineered Wood Construction Guide," for types of structural-use panels and applications indicated.
- B. Fastening Methods: Fasten panels as indicated in the Construction Drawings:
 - 1. Allow 1/8" between end joints and 1/4" between edge joints for expansion and contraction.
 - 2. Provide sheathing clips at midspan of roof sheathing.

3.3 GYPSUM SHEATHING INSTALLATION

- A. Comply with GA-253 and with manufacturer's written instructions.
 - 1. Fasten gypsum sheathing to wood framing as indicated in the Construction Drawings and Division 09 specifications.
 - 2. Fasten gypsum sheathing to cold-formed metal framing as indicated in the Construction Drawings and Division 09 specifications.

END OF SECTION 061600