

## SECTION 061600 - SHEATHING

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:

1. Composite insulated wall sheathing with integral weather-resistive barrier.
2. Interior ceiling sheathing.
3. Sheathing joint-and-penetration treatment materials.

#### 1.2 ACTION SUBMITTALS

A. Product Data:

1. Composite insulated wall sheathing.
2. Interior ceiling sheathing.
3. Sheathing joint-and-penetration treatment materials.

#### 1.3 DELIVERY, STORAGE, AND HANDLING

- A. Stack panels flat with spacers beneath and between each bundle to provide air circulation. Protect sheathing from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

### PART 2 - PRODUCTS

#### 2.1 COMPOSITE INSULATED WALL SHEATHING

- A. Oriented-Strand-Board-Surfaced, Polyisocyanurate-Foam Sheathing: ASTM C1289, Type V with DOC PS 2, Exposure 1, Structural 1, with factory-laminated water-resistive barrier facer over oriented strand board on one face.

1. Basis-of-Design Product: Provide Zip System R-Sheathing as manufactured by Huber Engineered Woods, LLC.
2. Polyisocyanurate-Foam Thickness: Not less than 1-1/2 inches.
3. Oriented-Strand-Board Nominal Thickness: Not less than 5/8 inch.
4. Edge Profile: Square.
5. Weather Barrier Facer: Medium-density, phenolic-impregnated sheet material; ASTM D779, Grade D weather-resistive barrier.

#### 2.2 INTERIOR CEILING SHEATHING

- A. Plywood: DOC PS 1, Exterior, A-C.

1. Span Rating: Not less than 24.
2. Nominal Thickness: Not less than 23/32 inch.
3. Edge Detail: Square.
4. Surface Finish: Fully sanded face.

## 2.3 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
  1. For roof and wall sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A153/A153M.
- B. Nails, Brads, and Staples: ASTM F1667.
- C. Power-Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.
- D. Screws for Fastening Composite Nail Base Insulated Wall Sheathing to Wood Framed Wall: Type and length recommended by sheathing manufacturer for thickness of sheathing to be attached

## 2.4 SHEATHING JOINT-AND-PENETRATION TREATMENT MATERIALS

- A. Self-Adhering Seam and Flashing Tape: Pressure-sensitive, self-adhering, cold-applied, seam tape consisting of polyolefin film with acrylic adhesive.

# 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. Arrange joints so that pieces do not span between fewer than three support members.
- 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.
- D. Coordinate wall 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. 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 INSTALLATION OF WOOD STRUCTURAL PANEL

- A. General: Comply with applicable recommendations in APA Form No. E30, "Engineered Wood Construction Guide," for types of structural-use panels and applications indicated.
- B. Fastening Methods: Fasten panels as indicated below:
  - 1. Composite Insulated Wall Sheathing:
    - a. Securely fasten to concrete or masonry substrate.
    - b. Space panels 1/8 inch apart at edges and ends.
    - c. Apply self-adhering seam tape to cover space between panels.
  - 2. Interior Ceiling Sheathing:
    - a. Nail to wood framing. Apply a continuous bead of glue to framing members at edges of sheathing panels.
    - b. Space panels 1/8 inch apart at edges and ends.

END OF SECTION 061600