



SECTION 07 46 23

EXTERIOR TREATED WOOD COMPOSITE SIDING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Exterior-grade, factory-primed treated wood composite siding for non-structural applications.
- B. Joint sealants and painting for composite siding.

1.2 RELATED SECTIONS

- A. Section 07 92 00 – Joint Sealants for additional requirements for field-applied joint sealants.
- B. Section 09 90 00 – Painting and Coating for additional requirements for field-applied finish.

1.3 SUBMITTALS

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.
- C. Verification Samples: Submit manufacturer's sample of composite siding proposed for use.
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- E. Warranty Documentation: Submit manufacturer's standard warranty.

1.4 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged, for past 10 years, in manufacture of composite trim which is same product as siding with a dado cut out.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
 - 1. Store and handle materials in accordance with manufacturer's instructions.
 - 2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
 - 3. Store composite siding under cover, protected from weather, off ground, and on flat surface.
 - 4. Keep composite siding dry.
 - 5. Protect materials during storage, handling, and installation to prevent damage.

1.6 WARRANTY

- A. Warranty Period: Provide manufacturer's standard limited 15 year warranty for composite siding.

PART 2 PRODUCTS

2.1 EXTERIOR TREATED WOOD COMPOSITE SIDING

- A. Manufacturer: JELD-WEN, inc., 825 Shiner Road, PO Box 311, Towanda, Pennsylvania 18848. Toll Free 800-255-0785. Website www.miratectrim.com. E-mail miratec@jeld-wen.com.
- B. Composite Siding: "MiraTEC" exterior treated wood composite trim with dado cutout.
 - 1. Description: Exterior-grade, treated wood composite trim with dado cutout for non-structural applications.
 - 2. Compliance: ICC-ES Evaluation Report ESR-3043.
 - 3. Material:
 - a. Wood fibers combined with phenolic resins, zinc borate, and water repellent.
 - b. No added urea formaldehyde.
 - 4. Surface:
 - a. Clear cedar wood grain texture on exposed side.
 - b. Factory-primed on 4 sides with low VOC primer containing mildewcide.
 - 5. Substrate:
 - a. One-piece solid substrate, uniform density, not laminated.
 - b. No knots or voids.
 - 6. Thickness: 5/8-inch actual.
 - 7. Siding Width: 2-12 inches.

2.2 ACCESSORIES

- A. Adhesives: Designed for use on wood composite materials.
- B. Fasteners:
 - 1. Stainless steel nails appropriate to style of construction and as specified.

2. Equal or better in performance (such as nail withdrawal, bending strength, and corrosion resistance) to 6d or 8d.
 3. Long enough to penetrate 1-1/4 inches into structural wood studs or studs and structural sheathing material.
 4. Fasteners Not Acceptable: Staples, brads, T-nails.
- C. Joint Sealants: High-quality flexible caulking complying with ASTM C920 and acceptable to the siding manufacturer; hard-setting caulk or Bondo not acceptable.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas and surfaces to receive composite siding. Notify Architect of conditions that would adversely affect installation. Do not begin installation until unacceptable conditions are corrected.

3.2 INSTALLATION

- A. Install composite trim in accordance with manufacturer's instructions at locations indicated on the Drawings. Install composite siding plumb, level, and square. Cut composite siding in accordance with manufacturer's instructions.
- B. Fastening:
1. Fasten composite siding in accordance with manufacturer's instructions.
 2. Set nails a minimum of 1/2 inch from edge.
 3. Do not nail into edges.
 4. Set nails flush or slightly countersunk not more than 1/8 inch.
 5. Apply spackling putty. Reapply putty as needed for desired appearance.
 6. All Other Horizontal and Vertical Applications: Double nail 16 inches on center, falling on studs.
 7. Do not nail towards the center from both ends.
 8. Use adhesives in accordance with adhesive manufacturer's instructions.
- C. Butt Joints:
1. Ensure joints fall over framing members.
 2. Miter, scarf, or bevel composite siding as required.
 3. Runs Less than 30 Feet in Length: Install butt joints to lightly touch.
 4. Runs Over 30 Feet in Length: Space butt and scarf joints 1/8 inch apart and apply joint sealants into full depth of 1/8-inch joint.
 5. Double nail on both sides of joint, a minimum of 1/2 inch from edge.
- D. Flashing and Moisture Control:
1. Do not apply composite siding to wet sheathing.
 2. Do not apply composite siding closer than 6 inches to finished grade or final landscaping.
 3. Do not allow composite siding to stand in water.
 4. Do not allow direct contact of composite siding with masonry or concrete.
 5. Do not allow water to stand on or leak behind composite siding.

6. Properly flash and space composite siding a minimum of 1/2 inch from concrete flatwork or horizontal brick ledge.
 7. Separate composite siding at foundations or brick veneer from masonry by metal flashing, polyethylene film, 30-lb. felt, or 1/4-inch to 1/2-inch air space using masonry standoffs.
 8. Horizontal Applications including Window and Door Headers: Flash in accordance with siding manufacturer's, window manufacturer's, or door manufacturer's instructions.
 9. Maintain a minimum angle of 100 degrees from vertical to provide positive drainage.
- E. Joint Sealants: Apply joint sealants at butt joints and where composite siding abuts windows, doors, or other materials. Also comply with requirements of Section 079200 – Joint Sealants.
- F. Paint Application: Also comply with requirements of Section 09 90 00 – Painting and Coating.
1. Prime and paint field-cut edges of composite siding using high-quality exterior oil/alkyd solvent-based or acrylic-latex primer recommended by paint manufacturer for application over composite wood substrates.
 2. Coat exposed surfaces including bottom edge.
 3. Finish composite siding with 2 coats of paint within 90 days after installation.
 4. If material is not painted within 90 days, reprime composite siding using exterior primer recommended for use on composite wood products and is compatible with topcoat to be used.
 5. Use same primer for repair of damage to original factory-applied primer.
 6. Apply total field-applied dry film paint thickness of a minimum of 2-1/2 mils on composite trim.

3.3 PROTECTION

- A. Protect installed composite siding to ensure that, except for normal weathering, siding will be without damage or deterioration at time of Substantial Completion.

END OF SECTION