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INSTRUCTIONS TO SPECIFIER

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This guide specification section has automatic paragraph numbering to facilitate editing. The styles are compatible with styles used in AVITRU MasterSpec® so that the edited section can be easily reformatted to the user's preferences.

Coordinate cross references to other specification sections in this section with actual specification section numbers and titles.

Text in **bold** within square brackets [] are editing options. Angle brackets < > are used to indicate where user text is to be inserted.

Unhide text for "Specifier Notes." Revise this Section by deleting and inserting text to meet Project-specific requirements.

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Consult Louisiana - Pacific Corporation for additional assistance in using this information and for information not included.

SECTION 06 16 00 – SHEATHING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. **[Wall sheathing with integrated water-resistive barrier].**
2. **[Roof sheathing with integrated underlayment].**

1.2 COORDINATION

- A. Coordinate installation with flashings, weather barriers, and other adjoining construction to ensure proper sequencing for weathertight performance.

1.3 PREINSTALLATION MEETINGS

- A. Meet at Project site **<insert number>** days before starting installation.
- B. Attendees: Contractor, Installer, and affected trades.
- C. Discussion Topics:
 - 1. Coordination with window and door installation.
 - 2. Coordination with cladding installation.
 - 3. **<Insert specific requirements>**

1.4 ACTION SUBMITTALS

- A. Product Data:
 - 1. For each factory-fabricated panel product specified.
 - 2. Installation materials.
- B. Shop Drawings:
 - 1. Include wind uplift span design not exceeding the span rating shown in the APA Trademark, dimensions, type and spacing of fasteners acceptable to authority having jurisdiction, and details of construction and installation.
- C. Samples: For each exposed product and texture specified, 12 inches long.

1.5 INFORMATIONAL SUBMITTALS

- A. Research/Evaluation Reports: APA Product Report PR-N138.
- B. Research/Evaluation Reports: Intertek Code Compliance Research Report CCRR – 0319.
- C. **[Sustainable Design Submittals:**
 - 1. **Sourcing of Raw Materials: Corporate sustainability report for each manufacturer.**
 - a. **Chain-of-Custody Qualification Data: For manufacturer and vendor.**

- 1) **SFI Fiber Sourcing: SAI-SFI-FS-1721540 (Clarke County).**
- 2) **SFI Chain of Custody: SAI-SFI-COC-1721540 (Clarke County).**
- 3) **PEFC Chain of Custody: SAI-PEFC-COC-1721540 (Clarke County)].**

1.6 CLOSEOUT SUBMITTALS

- A. Manufacturer warranty.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Supervisors and installers trained by sheathing manufacturer.
- B. Research/Evaluation Reports: APA Product Report PR-N138.
- C. Research/Evaluation Reports: Intertek Code Compliance Research Report CCRR – 0319.
- D. Mockup: Build mockup to establish quality standards for materials and installation.
 1. Build mockup of typical wall area that includes window rough opening as directed by Architect.
 2. Include joint seams and opening flashing.
 3. Acceptable mock-ups may remain as part of the Work if undamaged at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle materials and products per manufacturer instructions.
- B. Store products in manufacturer's labeled packaging until ready for installation. Protect from moisture absorption and other damage.
- C. Store products off the ground on flat surface and under waterproof covering or roof with provisions for air circulation.

1.9 FIELD CONDITIONS

- A. Install sheathing only when ambient temperature is above 14 degrees F.

1.10 WARRANTY

- A. Manufacturer's Standard Warranty: Transferable limited warranty.

- B. Warranty Period: The System, when installed in accordance with LP's applicable published installation instructions in effect at the time the System is installed on the original structure, will perform for a period of 30 years from the date of installation.
1. Failures covered by limited warranty include:
 - a. Delamination – as defined by the manufacturer's limited warranty.
 - b. Substrate Irregularity – as defined by the manufacturer's limited warranty.
 - c. Barrier Issue – as defined by the manufacturer's limited warranty.
 2. Refer to manufacturer's current, complete limited warranty for details at www.lpcorp.com/warranties.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Sheathing System:
1. Shall be used in a design span not exceeding the span rating shown in APA Trademark.
 2. Limited to dry service conditions where the average equilibrium moisture content of sawn lumber is less than 16 percent.
 3. Roof assembly applications is limited to a slope of not less than 2 units vertical in 12 units horizontal (17 percent slope).
 4. Panels are sized nominally to 4 feet by 8 feet, 4 feet by 9 feet and 4 feet by 10 feet (reduced 1/8-inch to allow for proper spacing during installation)
- B. Fire-Test-Response Characteristics:
1. Wall Applications:
 - a. Class C or III Classification: Panels meet Class C or III flame spread index and smoke-developed index when tested in accordance with ASTM E84.
 2. Roof Applications:
 - a. Class A Roof Assemblies: Panels produced at the Clarke County plant (Mill number 520) with a Performance Category of 15/32 or greater meets a Class A fire classification as the underlayment for roof assemblies covered when covered with ASTM D3018 Class A asphalt fiberglass shingle.
 - b. Class B Roof Assemblies: Panels that meets a Class B fire classification as the underlayment for roof assemblies when covered with ASTM D3018 Class A asphalt fiberglass shingle, Class A asphalt fiberglass shingles when tested in accordance with ASTM E108.

- c. Class C Classification: Panels meet Class C flame spread index and smoke-developed index when tested in accordance with ASTM E84.

2.2 WALL SHEATHING SYSTEM WITH INTEGRATED WATER-RESISTIVE BARRIER

- A. Description: System of wood structural sheathing panels with air and water barrier facing, and seam and self-adhering flashing tape.

1. Manufacturer: LP Building Solutions.
2. System: WeatherLogic Air & Water Barrier.
3. System Performance Attributes:
 - a. Performance Category: **[7/16] [1/2] [5/8]**.
 - b. Panel Rating: Oriented strand board (OSB) Exposure 1 Structural I panels complying with US DOC PS 2 per APA Panel Design Specification, Form D510.
 - c. Water Vapor Transmission: 5.35 perms per ASTM E96, Method B.
 - d. Air Barrier Assembly Test: Pass.
 - e. Water Resistance: ASTM D2247, pass.
 - f. Water Penetration: ASTM E331, pass.
4. Performance Category:
 - a. **[7/16 Performance Category]**.
 - b. **[1/2 Performance Category]**.
 - c. **[5/8 Performance Category]**.
5. Seam and Flashing Tape: WeatherLogic Seam and Flashing pressure sensitive tape; tested per ASTM D330, Method F and AAMA 711-13 approved.
 - a. Seal panel joints.
 - b. Seal penetrations.
 - c. Flash window and door openings.
 - d. Flash roof and wall material transitions.
 - e. Flash foundation transitions.
 - f. Flash inside and outside corners.

2.3 ROOF SHEATHING SYSTEM WITH INTEGRATED OVERLAY

- A. Description: System of wood structural sheathing panels with air and water barrier facing, and seam and self-adhering flashing tape.

1. Manufacturer: LP Building Solutions.
2. System: WeatherLogic Air & Water Barrier.
3. System Performance Attributes:

- a. Performance Category: **[7/16] [1/2] [5/8]**.
 - b. Panel Rating: Oriented strand board (OSB) Exposure 1 Structural I panels complying with US DOC PS 2 per APA Panel Design Specification, Form D510.
 - c. Water Vapor Transmission: 5.35 perms per ASTM E96, Method B.
 - d. Air Barrier Assembly Test: Pass, 0.049 L/sq meter tested at 75 Pa per ASTM E2357.
 - e. Water Resistance: ASTM D2247, pass.
 - f. Water Penetration: ASTM E331, pass.
4. Span Rating and Performance Category: Not less than **[24] [32] [40]**.
- a. **[24-inch oc for 7/16 Performance Category]**.
 - b. **[32-inch oc for 1/2 Performance Category]**.
 - c. **[40-inch oc for 5/8 Performance Category]**.
5. Seam and Flashing Tape: WeatherLogic Seam and Flashing pressure sensitive tape; tested per ASTM D330, Method F and AAMA 711-13 approved.
- a. Seal panel joints.
 - b. Seal penetrations.
 - c. Flash roof and wall material transitions.
 - d. Flash ridges, hips and valleys.

2.4 FASTENERS

- A. Fasteners, general: Fastener specifications must comply with manufacturer's written instructions for project conditions and requirements of authorities having jurisdiction
1. Corrosion resistance [Hot-dip zinc coating, ASTM A153/A153M] [or] [Type 304 stainless steel]
- B. Nails, Brads, and Staples: ICC AC116 and ICC AC201.
- C. Power-driven Fasteners: ICC-ES-1539 or NER-272.
- D. Wood screws: ASME B18.6.1

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install system in accordance with manufacturer's instructions.

- B. Panels may be installed vertically or horizontally in wall applications.
- C. Install panels horizontally over two or more supports in roof applications.
- D. Install panels with 1/8-inch space between panel ends and edges.
- E. Nail wall sheathing panels securely to wood framing. Screw to cold-formed framing. Actual application may require larger nails and/or tighter nail spacing depending on wind or seismic loads. Always follow project specifications.
 - 1. Use minimum 6d (2-inch by 0.113-inches diameter) common nails for panels up to 1/2 Performance Category.
 - 2. Use 8d (2-1/2-inch by 0.131-inches diameter) common nails for panels up to 5/8 Performance Category.
 - 3. Do not use nails larger than 10d common (3-inch by 0.148-inches diameter).
 - 4. Staples and other code-approved fasteners may be used as approved by the building official.
 - 5. Space nails 6-inches o.c. along panel edges and 12-inches o.c. in the field of the panel.
 - 6. Minimum permitted nail spacing is 3-inches o.c.
 - 7. Place nails 3/8-inch from all panel edges.
- F. Nail roof sheathing panels securely to wood roof trusses or rafters. Screw to cold-formed framing. Actual application may require larger nails and/or tighter nail spacing depending on wind or seismic loads. Always follow project specifications.
 - 1. Use minimum 8d (2-1/2-inch by 0.131-inches diameter) common nails.
 - 2. Do not use nails larger than 10d common (3-inch by 0.148-inches diameter).
 - 3. Staples and other code-approved fasteners may be used as approved by the building official.
 - 4. Space nails 6-inches o.c. along panel edges and 12-inches o.c. in the field of the panel.
 - 5. Minimum permitted nail spacing is 3-inches o.c.
 - 6. Place nails 3/8-inch from all panel edges.
- G. After nailing, apply seam tape to nail heads driven below surface and to damage to water-resistive overlay. Provide seam tape width as recommended by manufacturer.
- H. Seam and Flashing Tape: Apply positive pressure to ensure full adhesion, especially at edges, with squeegee supplied with tape.
- I. Apply seam tape to panel joints and drip edge at bottom course; lap tape ends minimum 2 inches. Provide seam tape width as recommended by manufacturer.
- J. Verify that barrier surface is clean, dry, and free from frost when applying joint and flashing tape.

- K. Rough Door and Window Openings: Apply seam tape to cover panel edges and extend into rough opening. Provide seam tape width as recommended by manufacturer.
 - 1. Doors: Apply seam tape to drip edge at door head.
 - 2. Windows: Apply seam tape to nailing flanges.
- L. Penetrations: Apply seam tape to provide watertight joints. Provide seam tape width as recommended by manufacturer.
 - 1. Use a flexible adhesive-backed flashing tape approved to AAMA 711-13, a liquid-applied flashing certified to AAMA 714-15 (or newer) or a flexible flashing evaluated to ICC-ES Acceptance Criteria for Flexible Flashing Materials (AC148). Install in accordance with the manufacturer's instructions.

3.2 ADJUSTING AND CLEANING

- A. Remove damaged, improperly installed, or otherwise defective materials and replace with new materials complying with specified requirements.

3.3 PROTECTION

- A. Protect installed products against damage until concealing construction is complete.

END OF SECTION