



SECTION 07 46 23
ENGINEERED WOOD SIDING

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1 GENERAL

1.1 SECTION INCLUDES

1.1.1 Engineered Wood Siding/Cladding.

1.1.2 Soffit Panels.

1.1.3 Trim and Fascia.

1.1.4 Accessories:

1.1.4.1 Fasteners.

1.1.4.2 Sealant.

1.1.4.3 Water-resistive barrier.

1.1.4.4 Flashing.

1.2 RELATED SECTIONS

1.2.1 Section 06 05 73.13 - Fire-Retardant Wood Treatment.

1.2.2 Section 06 10 00 - Rough Carpentry.

1.2.3 Section 06 20 00 - Finish Carpentry.

1.2.4 Section 07 62 00 - Sheet Metal Flashing and Trim.

1.3 REFERENCES

1.3.1 ASTM International (ASTM):

1.3.1.1 ASTM A 153 - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.

1.3.1.2 ASTM C 920 - Standard Specification for Elastomeric Joint Sealants.

1.3.2 American National Standards Institute (ANSI):

1.3.2.1 ANSI A135.6 - Engineered Wood Siding.

1.3.3 APA - The Engineered Wood Association (APA):

1.3.3.1 PS 2-10 - Performance Standard for Wood-Based Structural-Use Panels.

1.3.3.2 PRP 108 - Performance Standards and Qualification Policy for Structural-Use

- 1.5.4 Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
 - 1.5.4.1 Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
 - 1.5.4.2 If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
 - 1.5.4.3 Retain mock-up during construction as a standard for comparison with completed work.
 - 1.5.4.4 Do not alter or remove mock-up until work is completed or removal is authorized.
- 1.6 PRE-INSTALLATION CONFERENCE
 - 1.6.1 Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
- 1.7 DELIVERY, STORAGE, AND HANDLING
 - 1.7.1 Store and handle in strict compliance with manufacturer's written application instructions and recommendations.
 - 1.7.2 Protect from damage due to weather, excessive temperature, and construction operations.
- 1.8 PROJECT CONDITIONS
 - 1.8.1 Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
- 1.9 SEQUENCING
 - 1.9.1 Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
- 1.10 WARRANTY
 - 1.10.1 Manufacturer's Warranty: Provide manufacturer's Limited Warranty.
 - 1.10.1.1 Limited Warranty Period: Fifty years, first 5 years equal to the cost of repairing or replacing, then prorated from the 6th year through the 49th year from the date of installation.
- 2 PRODUCTS
 - 2.1 MANUFACTURERS
 - 2.1.1 Acceptable Manufacturer: LP Building Products, which is located at: 414 Union St. Suite 2000; Nashville, TN 37219; Toll Free Tel: 888-820-0325; Fax: 877-523-7192; Email:[request info \(customer.support@lpcorp.com\)](mailto:requestinfo(customer.support@lpcorp.com)); Web:<https://lpcorp.com>
 - 2.1.2 Substitutions: Not permitted.
 - 2.1.3 Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
 - 2.2 ENGINEERED WOOD SIDING/CLADDING
 - 2.2.1 Basis of Design: Strand Panel Siding; as manufactured by LP Building Products.

- 2.2.1.1 Description: Exterior-grade, phenolic resin-saturated, paper overlay laminated to EPA-registered zinc-borate preservative-treated engineered wood siding. Exposed edges sealed for moisture resistance.
 - 2.2.1.2 Finish: Acrylic latex primer.
 - 2.2.1.3 Thickness, 38 Series: 0.315 inch (8 mm) minimum.
 - 2.2.1.4 Thickness, 76 Series: 0.375 inch (10 mm) minimum.
 - 2.2.1.5 Thickness, 190 Series: 0.530inch (14 mm) minimum.
 - 2.2.1.6 Style : Embossed Cedar Texture
 - 2.2.1.7 Grooves: Channel grooves at 4 inches (102 mm) on center.
 - 2.2.1.8 Grooves: Channel grooves at 8 inches (203 mm) on center.
 - 2.2.1.9 Grooves: None.
 - 2.2.1.10 Length: 6 feet (1829 mm).
 - 2.2.1.11 Length: 7 feet (2134 mm).
 - 2.2.1.12 Length: 8 feet (2438 mm).
 - 2.2.1.13 Length: 9 feet (2743 mm).
 - 2.2.1.14 Length: 10 feet (3048 mm).
 - 2.2.1.15 Length: 12 feet (3658 mm).
 - 2.2.1.16 Width: 48 inches (1219 mm), nominal.
 - 2.2.1.17 Edges: Shiplap.
- 2.2.2 Basis of Design: Strand Vertical Siding; as manufactured by LP Building Products.
- 2.2.2.1 Description: Exterior-grade, phenolic resin-saturated, paper overlay laminated to EPA-registered zinc-borate preservative-treated engineered wood siding. Edges beveled and sealed for moisture resistance.
 - 2.2.2.2 Finish: Acrylic latex primer.
 - 2.2.2.3 Thickness, 38 Series: 0.315 inch (8 mm) minimum.
 - 2.2.2.4 Style: Embossed Cedar Texture.
 - 2.2.2.5 Length: 16 feet (4877 mm).
 - 2.2.2.6 Width: 16 inches (406 mm), nominal.
- 2.2.3 Basis of Design: Strand Lap Siding; as manufactured by LP Building Products.
- 2.2.3.1 Description: Exterior-grade, phenolic resin-saturated, paper overlay laminated to EPA-registered zinc-borate preservative-treated engineered wood siding. Edges beveled ad sealed for moisture resistance.
 - 2.2.3.2 Finish: Acrylic latex primer.
 - 2.2.3.3 Thickness, 38 Series: 0.315 inch (8 mm) minimum.
 - 2.2.3.4 Thickness, 76 Series: 0.375 inch (10 mm) minimum.
 - 2.2.3.5 Style: Embossed Cedar Texture.
 - 2.2.3.6 Width: 5 inches (127 mm), nominal.
 - 2.2.3.7 Width: 6 inches (152 mm), nominal.
 - 2.2.3.8 Width: 7 inches (178 mm), nominal.
 - 2.2.3.9 Width: 8 inches (203 mm), nominal.
 - 2.2.3.10 Width: 9-1/2 inches (241 mm), nominal.
 - 2.2.3.11 Width: 12 inches (305 mm), nominal.
 - 2.2.3.12 Length: 16 feet (4877 mm).
 - 2.2.3.13 SmartLock Cedar Texture, Size: 8 inches (203 mm) nominal width, 0.375 inch (10 mm) minimum thickness.
- 2.2.4 Basis of Design: Fiber Panel Siding, 76 Series; as manufactured by LP Building Products.
- 2.2.4.1 Type: Engineered wood siding with resin and linseed oil impregnated surface, treated with EPA-registered zinc-borate preservative.
 - 2.2.4.2 Standards Compliance: ANSI A135.6 compliant.
 - 2.2.4.3 Finish: Acrylic latex primer.
 - 2.2.4.4 Thickness: 0.375 inch (10 mm), minimum.
 - 2.2.4.5 Style: Reverse board and batten, 12 inch (305 mm) on center groove.
 - 2.2.4.6 Style: Smooth Finish.

- 2.2.4.7 Style: Smooth Finish, 8 inch (203 mm) on center groove.
 - 2.2.4.8 Style: Stucco Texture.
 - 2.2.4.9 Style: Cedar Texture, 8 inch (203 mm) on center groove.
 - 2.2.4.10 Style: Cedar Texture with square edge.
 - 2.2.4.11 Width: 48.56 inches (1233 mm), actual width.
 - 2.2.4.12 Length: 8 feet (2438 mm).
 - 2.2.4.13 Length: 9 feet (2743 mm).
 - 2.2.4.14 Edges: Shiplap and Square Edge.
- 2.2.5 Basis of Design: Fiber Lap Siding, 76 Series; as manufactured by LP Building Products.
- 2.2.5.1 Type: Engineered wood siding with resin and linseed oil impregnated surface, treated with EPA-registered zinc-borate preservative.
 - 2.2.5.2 Standards Compliance: ANSI A135.6 compliant.
 - 2.2.5.3 Finish: Acrylic latex primer.
 - 2.2.5.4 Thickness, 76 Series: 0.375 inch (10 mm) minimum.
 - 2.2.5.5 Style: Smooth Finish.
 - 2.2.5.6 Style: Cedar Texture.
 - 2.2.5.7 Style: Colonial Beaded Smooth Finish.
 - 2.2.5.8 Style: Colonial Beaded Sequoia Texture.
 - 2.2.5.9 Width: 8 inches (203 mm) nominal.
 - 2.2.5.10 Width: 9 inches (229 mm) nominal.
 - 2.2.5.11 Length: 16 feet (4877 mm).
- 2.2.6 Basis of Design: Fiber Lap Siding, 120 Series; as manufactured by LP Building Products.
- 2.2.6.1 Type: Engineered wood siding with resin and linseed oil impregnated surface, treated with EPA-registered zinc-borate preservative.
 - 2.2.6.2 Standards Compliance: ANSI A135.6 compliant.
 - 2.2.6.3 Finish: Acrylic latex primer.
 - 2.2.6.4 Thickness, 120 Series: 0.450 inch (11 mm) minimum.
 - 2.2.6.5 Style: 12 inch (305 mm) nominal, Triple 4 inch (102 mm) Bold Profile.
 - 2.2.6.6 Style: 12 inch (305 mm) nominal, Double 5 inch (127 mm) Bold Profile.
 - 2.2.6.7 Style: 16 inch (406 mm) nominal, Quad 4 inch (102 mm) Bold Profile.
 - 2.2.6.8 Style: 16 inch (406 mm) nominal, Triple 5 inch (127 mm) Bold Profile.
 - 2.2.6.9 Style: 16 inch (406 mm) nominal, Double 8 inch (203 mm) Bold Profile.
 - 2.2.6.10 Width: 6 inches (152 mm) nominal.
 - 2.2.6.11 Width: 8 inches (203 mm) nominal.
 - 2.2.6.12 Width: 8 inches (203 mm) nominal, Self-Aligning Cedar Texture.
 - 2.2.6.13 Width: 9.5 inches (241 mm) nominal.
 - 2.2.6.14 Width: 12 inches (305 mm) nominal.
 - 2.2.6.15 Width: 16 inches (406 mm) nominal.
 - 2.2.6.16 Length: 16 feet (4877 mm).
- 2.2.7 Basis of Design: Fiber Cedar Shakes; as manufactured by LP Building Products.
- 2.2.7.1 Type: Engineered wood siding with resin and linseed oil impregnated surface, treated with EPA-registered zinc-borate preservative.
 - 2.2.7.2 Standards Compliance: ANSI A135.6 compliant.
 - 2.2.7.3 Finish: Acrylic latex primer.
 - 2.2.7.4 Thickness: 0.375 inch (10 mm), minimum.
 - 2.2.7.5 Style: Cedar Texture with staggered edge or straight edge.
 - 2.2.7.6 Size: 12 x 48 inches (305 x 1219 mm).
 - 2.2.7.7 Edges: Shiplap Edge.
- 2.2.8 Basis of Design: Fiber Perfection Shingle; as manufactured by LP Building Products.
- 2.2.8.1 Type: Engineered wood siding with resin and linseed oil impregnated surface, treated with EPA-registered zinc-borate preservative.
 - 2.2.8.2 Standards Compliance: ANSI A135.6 compliant.

- 2.2.8.3 Finish: Acrylic latex primer.
- 2.2.8.4 Thickness: 0.375 inch (10 mm), minimum.
- 2.2.8.5 Style: Fine sawn wood texture with no knots and straight edge.
- 2.2.8.6 Size: 8 x 48 inches (203 x 1219 mm).
- 2.2.8.7 Edges: Shiplap Edge.

2.3 SOFFIT PANELS

2.3.1 Basis of Design: Strand Soffit ; as manufactured by LP Building Products.

- 2.3.1.1 Type: Exterior-grade, phenolic resin-saturated, paper overlay laminated to EPA-registered zinc-borate preservative-treated engineered wood soffit.
- 2.3.1.2 Finish: Acrylic latex primer.
- 2.3.1.3 Square edges.
- 2.3.1.4 Thickness: 0.315 inch (8 mm) minimum.
- 2.3.1.5 Thickness: 0.375 inch (10 mm) minimum.
- 2.3.1.6 Thickness: 0.530 inch (14 mm) minimum.
- 2.3.1.7 Style : Cedar Texture.
- 2.3.1.8 Type: Non-vented soffit.
- 2.3.1.9 Type: Non-vented, Cut-to-Width soffit.
- 2.3.1.10 Type: Vented, Cut-to-Width soffit.
- 2.3.1.11 Width: 12 inches (305 mm), nominal.
- 2.3.1.12 Width: 16 inches (406 mm), nominal.
- 2.3.1.13 Width: 24 inches (610 mm), nominal.
- 2.3.1.14 Width: 48 inches (1219 mm), nominal.
- 2.3.1.15 Length: 8 feet (2438 mm).
- 2.3.1.16 Length: 9 feet (2743 mm).
- 2.3.1.17 Length: 16 feet (4877 mm).

2.3.2 Basis of Design: Fiber Soffit ; as manufactured by LP Building Products.

- 2.3.2.1 Type: Engineered wood siding with resin and linseed oil impregnated surface, treated with EPA-registered zinc-borate preservative.
- 2.3.2.2 Finish: Acrylic latex primer. Square edges.
- 2.3.2.3 Thickness: 0.375 inch (10 mm).
- 2.3.2.4 Style: Cedar Texture.
- 2.3.2.5 Style: Smooth Finish.
- 2.3.2.6 Type: Non-vented soffit.
- 2.3.2.7 Type: Non-vented, Cut-to-Width soffit.
- 2.3.2.8 Width: 16 inches (405 mm).
- 2.3.2.9 Width: 47.94 inches (1218 mm) actual.
- 2.3.2.10 Length: 8 feet (2438 mm).
- 2.3.2.11 Length: 9 feet (2743 mm).
- 2.3.2.12 Length: 16 feet (4877 mm).

2.4 TRIM AND FASCIA

2.4.1 Basis of Design: Strand Trim and Fascia; as manufactured by LP Building Products.

- 2.4.1.1 Fire Rating: Class 1(A) fire rating required.
- 2.4.1.2 Finish: Acrylic latex primer.
- 2.4.1.3 Thickness, 190 Series: 0.530 inch (14 mm).
- 2.4.1.4 Thickness, 440 Series: 0.625 inch (16 mm).
- 2.4.1.5 Thickness, 540 Series: 0.910 inch (23 mm).
- 2.4.1.6 Style : Cedar Texture.
- 2.4.1.7 Width: 1.50 inches (38 mm), actual.
- 2.4.1.8 Width: 2.50 inches (64 mm), actual.
- 2.4.1.9 Width: 3.50 inches (89 mm), actual.
- 2.4.1.10 Width: 4.50 inches (114 mm), actual.
- 2.4.1.11 Width: 5.50 inches (140 mm), actual.

- 2.4.1.12 Width: 7.21 inches (183 mm), actual.
- 2.4.1.13 Width: 9.21 inches (234 mm), actual.
- 2.4.1.14 Width: 11.21 inches (285 mm), actual.
- 2.4.1.15 Length: 16 feet (4877 mm).

2.4.2 Basis of Design: Fiber Trim and Fascia; as manufactured by LP Building Products.

- 2.4.2.1 Fire Rating: Class 1(A) fire rating required.
- 2.4.2.2 Finish: Acrylic latex primer.
- 2.4.2.3 Thickness, 440 Series: 0.625 inch (16 mm) minimum.
- 2.4.2.4 Thickness, 540 Series: 0.910 inch (23 mm) minimum.
- 2.4.2.5 Style : Reversible; Smooth Finish on one side and Cedar Texture on the other side.
- 2.4.2.6 Width: 2.70 inches (69 mm), actual.
- 2.4.2.7 Width: 3.50 inches (89 mm), actual.
- 2.4.2.8 Width: 4.50 inches (114 mm), actual.
- 2.4.2.9 Width: 5.50 inches (140 mm), actual.
- 2.4.2.10 Width: 7.21 inches (183mm), actual.
- 2.4.2.11 Width: 9.21 inches (234 mm), actual.
- 2.4.2.12 Width: 11.21 inches (285 mm), actual.
- 2.4.2.13 Length: 16 feet (4877 mm).

2.5 ACCESSORIES

2.5.1 Fasteners: ASTM A 153:

- 2.5.1.1 Hot-dip galvanized or stainless steel nails with 0.113 inch (2.9 mm) diameter shank.
- 2.5.1.2 Penetrate structural framing or wood structural panels and structural framing a minimum of 1-1/2 inches (38 mm).

2.5.2 Sealant: ASTM C 920, minimum Class 25 sealant.

2.5.3 Water-Resistive Barrier: ASTM D226 or other approved water-resistive barrier.

2.5.4 Air Barrier:

- 2.5.4.1 Material: ASTM E 1677 .
- 2.5.4.2 UV Exposure: Minimum three months.
- 2.5.4.3 Seam Tape: Air barrier manufacturer's standard product.

2.5.5 Non-Compressible Drainable Housewrap :

- 2.5.5.1 Non-Compressible: will not allow the minimum 1 mm drainage gap to be reduced by the force of fastening during the installation of siding.
- 2.5.5.2 Drainable Housewrap: will remove more bulk water by creating a minimum 1 mm drainage gap (air gap) at any individual measurement point between the housewrap and the back of the siding.

2.5.6 Flashing:

- 2.5.6.1 Provide flashing at window and door heads and where indicated on Drawings. Refer to Division 07 for sheet metal flashing.
- 2.5.6.2 Material: Aluminum.
 - 2.5.6.2.1 Finish: Siliconized polyester coating.
 - 2.5.6.2.2 Finish: High-performance organic finish.
 - 2.5.6.2.3 Finish: Factory-prime coating.
 - 2.5.6.2.4 Finish: _____.
 - 2.5.6.2.5 Finish: As determined by the Architect.
- 2.5.6.3 Material: Stainless steel.
- 2.5.6.4 Material: Galvanized steel.
- 2.5.6.5 Material: _____.

2.5.6.6 Material: As determined by the Architect.

3 EXECUTION

3.1 EXAMINATION

- 3.1.1 Do not begin installation until substrates have been properly constructed and prepared.
- 3.1.2 If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
- 3.1.3 Verify location of concealed framing support and anchorage.

3.2 PREPARATION

- 3.2.1 Clean surfaces thoroughly prior to installation.
- 3.2.2 Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- 3.3.1 Install in accordance with manufacturer's application instructions approved submittals and in proper relationship with adjacent construction.
 - 3.3.1.1 Install in accordance with conditions stated in ICC-ES ESR-1301 for strand substrate products and ICC-ES ESR-3090 for fiber substrate products.
 - 3.3.1.2 Properly space joints to allow for equilibration.
- 3.3.2 Do not install over damaged or crooked materials.
- 3.3.3 Do not cut siding/cladding to fabricate trim; use trim components.
- 3.3.4 After installation, seal and flash joints, except the overlapping horizontal lap joints.
- 3.3.5 Seal around penetrations.
- 3.3.6 All wood substrate that is exposed to the weather must be sealed in a manner that prevents moisture intrusion and water build up.
 - 3.3.6.1 Seal ALL exposed cuts of siding and trim. Field spray applied coatings on cuts are not recommended.
 - 3.3.6.2 Sealing can be accomplished by applying a coating or sealant according to the manufacturer's requirements.
 - 3.3.6.3 Butt joints that are covered with joint moldings, sealant, or factory prefinished ends are considered sealed from the weather.

3.4 CLEANING AND PROTECTION

- 3.4.1 Clean products in accordance with the manufacturers Care and Maintenance Instructions.
- 3.4.2 Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION