Identity Wood Products
HERITAGE SERIES

LP SMARTSIDE

SECTION 07 46 23
STRAND SUBSTRATE SIDING

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1 GENERAL

1.1   SECTION INCLUDES

1.1.1 Primed, preservative treated engineered wood siding.

1.1.2 Primed soffit panels and trim.

1.1.3 Sealing joints and penetrations.

1.2   RELATED SECTIONS

1.2.1 Section 06 10 00 - Rough Carpentry.

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

1.2.3 Section 09 90 00 - Painting and Coating for field applied coatings, which shall meet siding manufacturer's minimum requirements as specified in this Section.

1.3   REFERENCES

1.3.1 ICC Evaluation Service (ICC-ES): AC321 - Acceptance criteria for treated-engineered-wood siding.

1.3.2 American Wood Protection Association (AWPA) standard T1 - Use Category System: Processing and Treatment Standard. Section J Non-Pressure Composites.

1.3.3 APA & ICC-ES ESR-1301 - Joint Evaluation Report for LP SmartSide Precision Lap Siding and LP SmartSide Precision Panel Siding.

1.3.4 APA - The Engineered Wood Association: Structural Ratings.

1.3.5 ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.4   SUBMITTALS

1.4.1 Submit under provisions of Section 01 30 00 - Administrative Requirements.

1.4.2 [Product Data]: Manufacturer's data sheets on each product to be used, including:
    1.4.2.1 Preparation instructions and recommendations.
    1.4.2.2 Storage and handling requirements and recommendations.
    1.4.2.3 Installation methods.
    1.4.2.4 Cleaning and maintenance instructions.

1.4.3 Shop Drawings: Provide shop drawings indicating details of construction and installation.

1.4.4 Product Data Field Applied Textured Acrylic Finish System: Product data confirming minimum performance values required by manufacturer for field-applied textured acrylic finish systems.

1.5 QUALITY ASSURANCE

1.5.1 Contact manufacturer to confirm coatings to be applied over primed siding are compatible with siding primer. Do not apply coatings to primed siding unless acceptable to manufacturer of siding.

1.5.2 Field-Applied Textured Acrylic Finish System Requirements:
    1.5.2.1 Breathability: ASTM E96 (wet bulb): Minimum 15 perms.
    1.5.2.2 Adhesion: EIMA 101.03: Minimum 5 psi.
    1.5.2.3 Flexibility: ASTM D522: Pass.
    1.5.2.4 Elasticity: ASTM D412: Minimum 175 percent.
    1.5.2.5 Abrasion Resistance: ASTM D968, exposure 500 qts: Pass.
    1.5.2.6 Flame Spread: ASTM E84, Maximum 24.
    1.5.2.7 Chalk Resistance: ASTM D4214, exposure 5000 hrs: No deleterious effect.
    1.5.2.8 Weatherability (Cyclic UV/Water): ASTM G53, exposure 2000 hours: No deleterious effect.
    1.5.2.9 Salt Spray: ASTM B117, exposure 300 hours: No deleterious effect.
    1.5.2.10 Mildew Resistance: ASTM D3273, 28 days: Zero growth.

1.6 DELIVERY, STORAGE, AND HANDLING

1.6.1 Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.

1.6.2 Store products in manufacturer's labeled packaging until ready for installation. Protect from damage.

1.6.3 Store products off the ground, on a flat surface, and under a roof or separate waterproof covering.

1.7 PROJECT CONDITIONS

1.7.1 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 absolute limits.

1.8 SEQUENCING AND SCHEDULING

1.8.1 Conference: Convene a pre-installation conference to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

1.9 WARRANTY

1.9.1 Manufacturer's Standard Warranty: 50 year transferable limited warranty with 5 year 100

percent repair and replacement warranty.

2 PRODUCTS

2.1 MANUFACTURERS

2.1.1 Acceptable Manufacturer: LP SmartSide, 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 (ben.barrette@lpcorp.com); Web:www.lpcorp.com/smartside

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 MATERIALS

2.2.1 Treated Engineered Wood Panel Siding: LP SmartSide Panel as manufactured by LP SmartSide.

    2.2.1.1   Description: Exterior-grade phenolic resin-saturated paper overlay laminated to EPA-registered zinc-borate-preservative-treated engineered wood siding; structurally rated; AWPA compliant; exposed edges sealed for moisture resistance; primed for painting.

    2.2.1.2   Fire Rating: 1 hour ASTM E119 assemblies available; ASTM E 84 Class C flamespread.

    2.2.1.3   Finish: Embossed rough-sawn Cedar.

    2.2.1.4   Grooves: Channel-grooves 3/8 inch (13 mm), 4 inches (102 mm) on center.

        2.2.1.4.1 Size: 8 feet (2438 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.4.2 Size: 8 feet (2438 mm) long, 0.530 inch (13.5 mm) thickness.
        2.2.1.4.3 Size: 9 feet (2743 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.4.4 Size: 9 feet (2743 mm) long, 0.530 inch (13.5 mm) thickness.
        2.2.1.4.5 Size: 10 feet (3048 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.4.6 Size: 10 feet (3048 mm) long, 0.530 inch (13.5 mm) thickness.

    2.2.1.5   Grooves: Channel-grooves 3/8 inch (13 mm), 8 inches (203 mm) on center.

        2.2.1.5.1 Size: 6 feet (1829 mm) long, 0.315 inch (8 mm) thickness.
        2.2.1.5.2 Size: 6 feet (1829 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.5.3 Size: 7 feet (2134 mm) long, 0.315 inch (8 mm) thickness.
        2.2.1.5.4 Size: 7 feet (2134 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.5.5 Size: 8 feet (2438 mm) long, 0.315 inch (8 mm) thickness.
        2.2.1.5.6 Size: 8 feet (2438 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.5.7 Size: 8 feet (2438 mm) long, 0.530 inch (13.5 mm) thickness.
        2.2.1.5.8 Size: 9 feet (2743 mm) long, 0.315 inch (8 mm) thickness.
        2.2.1.5.9 Size: 9 feet (2743 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.5.10 Size: 9 feet (2743 mm) long, 0.530 inch (13.5 mm) thickness.
        2.2.1.5.11 Size: 10 feet (3048 mm) long, 0.315 inch (8 mm) thickness.
        2.2.1.5.12 Size: 10 feet (3048 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.5.13 Size: 10 feet (3048 mm) long, 0.530 inch (13.5 mm) thickness.

    2.2.1.6   Grooves: No grooves.

        2.2.1.6.1 Size: 8 feet (2438 mm) long, 0.315 inch (8 mm) thickness.
        2.2.1.6.2 Size: 8 feet (2438 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.6.3 Size: 8 feet (2438 mm) long, 0.530 inch (13.5 mm) thickness.
        2.2.1.6.4 Size: 9 feet (2743 mm) long, 0.315 inch (8 mm) thickness.
        2.2.1.6.5 Size: 9 feet (2743 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.6.6 Size: 9 feet (2743 mm) long, 0.530 inch (13.5 mm) thickness.
        2.2.1.6.7 Size: 10 feet (3048 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.1.6.8 Size: 10 feet (3048 mm) long, 0.530 inch (13.5 mm) thickness.

    2.2.1.7   Board Width: 4 feet (1219 mm) nominal; 48-1/2 inches (1234 mm) actual.

2.2.1.8   Edges: Shiplap.

2.2.2   Treated Engineered Wood Panel: LP SmartSide Precision Series Smooth Panel as manufactured by LP SmartSide.
    2.2.2.1   Purpose: Only permitted for exterior wall applications when coated with a trowel-applied textured acrylic finish system meeting LP's minimum finish standard12* and soffit applications with an exterior acrylic paint.
    2.2.2.2   Description: Exterior-grade phenolic resin-saturated paper overlay laminated to EPA-registered zinc-borate-preservative-treated engineered wood siding; structurally rated; AWPA compliant, APA rated panels for structural use; exposed edges sealed for moisture resistance.
    2.2.2.3   Fire Rating: 1 hour ASTM E119 assemblies available; ASTM E 84 Class C flamespread.
    2.2.2.4   Finish: Smooth.
        2.2.2.4.1   Size: 8 feet (2438 mm) long, 0.315 inch (8 mm) thickness.
        2.2.2.4.2   Size: 8 feet (2438 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.2.4.3   Size: 8 feet (2438 mm) long, 0.530 inch (13.5 mm) thickness.
        2.2.2.4.4   Size: 9 feet (2438 mm) long, 0.315 inch (8 mm) thickness.
        2.2.2.4.5   Size: 9 feet (2438 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.2.4.6   Size: 9 feet (2438 mm) long, 0.530 inch (13.5 mm) thickness.
        2.2.2.4.7   Size: 10 feet (2438 mm) long, 0.315 inch (8 mm) thickness.
        2.2.2.4.8   Size: 10 feet (2438 mm) long, 0.375 inch (9.5 mm) thickness.
        2.2.2.4.9   Size: 10 feet (2438 mm) long, 0.530 inch (13.5 mm) thickness.
    2.2.2.5   Board Width: 4 feet (1219 mm) nominal; 47-7/8 inches (1216 mm) actual.
    2.2.2.6   Edges: Square.
    2.2.2.7   Substrate for Panels: As indicated on Drawings.
    2.2.2.8   Substrate for Panels: Direct to metal.
    2.2.2.9   Substrate for Panels: Direct to wood.
    2.2.2.10   Substrate for Panels: Over exterior gypsum panel.
    2.2.2.11   Substrate for Panels: Over exterior sheathing.

2.2.3   Treated Engineered Wood Lap Siding: LP SmartSide Lap as manufactured by LP SmartSide.
    2.2.3.1   Description: Exterior-grade phenolic resin-saturated paper overlay laminated to EPA-registered zinc-borate-preservative-treated engineered wood siding; AWPA compliant; embossed texture; edges beveled and sealed for moisture resistance; acrylic primed for painting.
    2.2.3.2   Fire Rating: 1 hour ASTM E119 assemblies available; ASTM E 84 Class C flamespread.
    2.2.3.3   Finish: Embossed rough-sawn Cedar.
        2.2.3.3.1   Size: 6 inches (152 mm) nominal; 5-7/8 inches (149 mm) actual width, 0.315 inch (8 mm) thickness.
        2.2.3.3.2   Size: 6 inches (152 mm) nominal; 5-7/8 inches (149 mm) actual width, 0.375 inch (9.5 mm) thickness.
        2.2.3.3.3   Size: 8 inches (203 mm) nominal; 7-7/8 inches (200 mm) actual width, 0.315 inch (8 mm) thickness.
        2.2.3.3.4   Size: 8 inches (203 mm) nominal; 7-7/8 inches (200 mm) actual width, 0.375 inch (9.5 mm) thickness.
        2.2.3.3.5   Size: 12 inches (305 mm) nominal; 11-7/8 inches (302 mm) actual width, 0.315 inch (8 mm) thickness.
        2.2.3.3.6   Size: 12 inches (305 mm) nominal; 11-7/8 inches (302 mm) actual width, 0.375 inch (9.5 mm) thickness.
    2.2.3.4   SmartLock Cedar Grain Size: 8 inches (203 mm) nominal; 7-7/8 inches (200 mm) actual width, 0.375 inch (9.5 mm) thickness.
    2.2.3.5   Board Width: 8 inches (203 mm) nominal; 7-7/8 inches (200 mm) actual.
    2.2.3.6   Board Length: 16 feet (4877 mm).

2.2.4 Treated Engineered Wood Soffit Panels: As manufactured by LP SmartSide.
  2.2.4.1   Description: Same material as siding; no grooves, square edges.
  2.2.4.2   Fire Rating: 1 hour ASTM E119 assemblies available; ASTM E 84 Class C flamespread.
  2.2.4.3   Finish: Embossed rough-sawn Cedar.
  2.2.4.4   Non-Vented, Cut-to-Width Soffit Panel
    2.2.4.4.1 Size: 8 feet (2438 mm) long, 0.315 inch (8 mm) thickness, 48 inch width nominal.
    2.2.4.4.2 Size: 8 feet (2438 mm) long, 0.375 inch (9.5 mm) thickness, 48 inch width nominal.
    2.2.4.4.3 Size: 8 feet (2438 mm) long, 0.530 inch (9.5 mm) thickness, 48 inch width nominal.
    2.2.4.4.4 Size: 16 feet (4877 mm) long, 0.315 inch (8 mm) thickness, 8 inch width nominal.
    2.2.4.4.5 Size: 16 feet (4877 mm) long, 0.315 inch (8 mm) thickness, 12 inch width nominal.
    2.2.4.4.6 Size: 16 feet (4877 mm) long, 0.315 inch (8 mm) thickness, 16 inch width nominal.
    2.2.4.4.7 Size: 16 feet (4877 mm) long, 0.315 inch (8 mm) thickness, 24 inch width nominal.
    2.2.4.4.8 Size: 16 feet (4877 mm) long, 0.375 inch (9.5 mm) thickness, 12 inch width nominal.
  2.2.4.5   Vented, Cut-to-Width Soffit Panel
    2.2.4.5.1 Size: 16 feet (4877 mm) long, 0.315 inch (8 mm) thickness, 8 inch width nominal.
    2.2.4.5.2 Size: 16 feet (4877 mm) long, 0.315 inch (8 mm) thickness, 12 inch width nominal.
    2.2.4.5.3 Size: 16 feet (4877 mm) long, 0.315 inch (8 mm) thickness, 16 inch width nominal.
    2.2.4.5.4 Size: 16 feet (4877 mm) long, 0.315 inch (8 mm) thickness, 24 inch width nominal.

2.2.5 Treated Engineered Wood Trim and Fascia: As manufactured by LP SmartSide.
  2.2.5.1   Description: Same material as siding.
  2.2.5.2   Fire Rating: 1 hour ASTM E119 assemblies available; ASTM E 84 Class C flamespread.
  2.2.5.3   Finish: Embossed rough-sawn Cedar.
  2.2.5.4   Size: 16 feet (4877 mm) long, 0.625 inch (15 mm) thickness, 1.5 inch (38 mm) width.
  2.2.5.5   Size: 16 feet (4877 mm) long, 0.910 inch (23 mm) thickness, 1.5 inch (38 mm).
  2.2.5.6   Size: 16 feet (4877 mm) long, 0.530 inch (13.5 mm) thickness, 2.5 inch (63 mm).
  2.2.5.7   Size: 16 feet (4877 mm) long, 0.625 inch (15 mm) thickness, 2.5 inch (63 mm) width.
  2.2.5.8   Size: 16 feet (4877 mm) long, 0.910 inch (23 mm) thickness, 2.5 inch (63 mm).
  2.2.5.9   Size: 16 feet (4877 mm) long, 0.530 inch (13.5 mm) thickness, 3.5 inch (89 mm).
  2.2.5.10   Size: 16 feet (4877 mm) long, 0.625 inch (15 mm) thickness, 3.5 inch (89 mm) width.
  2.2.5.11   Size: 16 feet (4877 mm) long, 0.910 inch (23 mm) thickness, 3.5 inch (89 mm).
  2.2.5.12   Size: 16 feet (4877 mm) long, 1.375 inch (35 mm) thickness, 3.5 inch (89 mm).
  2.2.5.13   Size: 16 feet (4877 mm) long, 0.910 inch (23 mm) thickness, 4.5 inch (114 mm).
  2.2.5.14   Size: 16 feet (4877 mm) long, 0.530 inch (13.5 mm) thickness, 5.5 inch (140 mm).
  2.2.5.15   Size: 16 feet (4877 mm) long, 0.625 inch (15 mm) thickness, 5.5 inch (140 mm) width.
  2.2.5.16   Size: 16 feet (4877 mm) long, 0.910 inch (23 mm) thickness, 5.5 inch (140 mm).
  2.2.5.17   Size: 16 feet (4877 mm) long, 1.375 inch (35 mm) thickness, 5.5 inch (140 mm).

2.2.5.18   Size: 16 feet (4877 mm) long, 0.530 inch (13.5 mm) thickness, 7.2 inch (184 mm).

2.2.5.19   Size: 16 feet (4877 mm) long, 0.625 inch (15 mm) thickness, 7.2 inch (184 mm).

2.2.5.20   Size: 16 feet (4877 mm) long, 0.910 inch (23 mm) thickness, 7.2 inch (184 mm).

2.2.5.21   Size: 16 feet (4877 mm) long, 1.375 inch (35 mm) thickness, 7.2 inch (184 mm).

2.2.5.22   Size: 16 feet (4877 mm) long, 0.530 inch (13.5 mm) thickness, 9.2 inch (235 mm).

2.2.5.23   Size: 16 feet (4877 mm) long, 0.625 inch (15 mm) thickness, 9.2 inch (235 mm).

2.2.5.24   Size: 16 feet (4877 mm) long, 0.910 inch (23 mm) thickness, 9.2 inch (235 mm).

2.2.5.25   Size: 16 feet (4877 mm) long, 1.375 inch (35 mm) thickness, 9.2 inch (235 mm).

2.2.5.26   Size: 16 feet (4877 mm) long, 0.530 inch (13.5 mm) thickness, 11.2 inch (286 mm).

2.2.5.27   Size: 16 feet (4877 mm) long, 0.625 inch (15 mm) thickness, 11.2 inch (286 mm).

2.2.5.28   Size: 16 feet (4877 mm) long, 0.910 inch (23 mm) thickness, 11.2 inch (286 mm).

2.2.5.29   Size: 16 feet (4877 mm) long, 1.375 inch (35 mm) thickness, 11.2 inch (286 mm).

2.2.6   Trim Fascia Boards: Plowed to receive soffit panel.

2.2.6.1   Size: 16 feet (4877 mm) long, 0.625 inch (15 mm) thickness, 5.5 inch (140 mm) width.

2.2.6.2   Size: 16 feet (4877 mm) long, 0.625 inch (15 mm) thickness, 7.2 inch (184 mm).

3 EXECUTION

3.1   PREPARATION

3.1.1 Prepare substrates using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.1.2 If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

3.1.3 Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.

3.2   INSTALLATION

3.2.1 Install in accordance with manufacturer's instructions.

3.2.1.1   Read warranty and comply with terms necessary to maintain warranty coverage.

3.2.1.2   Install in accordance with conditions stated in ICC-ES ESR-1301.

3.2.1.3   Properly space joints to allow for equilibration.

3.2.2 Allow products to adjust to ambient conditions before starting installation.

3.2.3 Do not install to green wood or crooked structural framing. Do not install over rain soaked or buckled materials. Do not install if excessive moisture is present in the interior, including that from curing concrete and plaster.

3.2.4 Do not cut siding to fabricate trim; use trim components manufactured for the purpose.

3.2.5 After installation, seal and flash joints except the overlapping horizontal lap joints. Seal around penetrations. Paint exposed cut edges.

3.3   PROTECTION

3.3.1 Protect installed products until completion of project.

3.3.2 Touch-up, repair or replace damaged products.

END OF SECTION