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Aluminum Siding

Levanté® Premier Aluminum Cladding

PART 1- GENERAL:

1.1 SECTION INCLUDES

- A. Exterior, aluminum cladding system and accessories
- B. Interior, aluminum cladding system and accessories

1.2 RELATED SECTIONS

- A. Section 01 74 21- Construction/Demolition Waste Management and Disposal
- B. Section 05 41 00- Structural Metal Stud Framing
- C. Section 06 10 00- Rough Carpentry
- D. Section 06 16 00- Sheathing
- E. Section 07 20 00- Thermal Protection
- F. Section 07 25 00- Weather Barriers
- G. Section 07 60 00- Flashing and Sheet Metal

1.3 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM E84- Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 2. ASTM D5206-13- Standard Test Method for Wind Load Resistance
 - 3. ASTM D2244 – Standard Practice for Calculation of Color Tolerances and Color Differences
 - 4. ASTM D4214 – Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films
- B. American Architectural Manufacturers Association (AAMA)
 - 1. AAMA 615 – Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Plastic Profiles
 - 2. AAMA 2604-10 Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
- C. American National Standards Institute (ANSI)
 - 1. Modified FM 4473 – Test Standard of Impact Resistance of Testing of Rigid Roofing Materials by impacting with Freezer Ice Balls.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Product Data: Submit manufacturer's printed product literature, specifications, and data sheet.
- C. Product Samples: Submit manufacturer's 6" product samples of siding material in color and profile specified.
 - 1. Interlocking, slats, self-mating
 - 2. Toasted Marshmallow, Twilight Sun, Moonlight Kiss
- D. Wall Sections & Details to indicate dimensions, profiles, attachment methods, schedule of wall elevations, trim and exposure pieces, soffits, fascia, metal furring, and related work.

- E. Certifications: Manufacturer's Certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards.
- F. Submit manufacturer's installation instructions.
- G. Manufacturer's Warranty: Submit manufacturer's warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. Products covered under this section are to be manufactured in an ISO 9001 certified facility.
 - 2. Provide technical and design support as needed regarding installation requirements and warranty compliance provisions.
- B. Installer Qualifications:
 - 1. All products listed in this section are to be installed by a single installer trained by manufacturer or representative.
- C. Mock-Up Wall:
 - 1. Provide a mock up wall as evaluation tool for product and installation workmanship.
- D. Pre-Installation Meetings:
 - 1. Prior to beginning installation, conduct conference to verify and discuss substrate conditions, manufacturer's installation instructions and warranty requirements, and project requirements.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in Manufacturer's packaging.
- B. Do not stack pallets more than two high.
- C. Pieces should be stored flat and in original packaging until use.
- D. Mark packaging, legibly. Indicate manufacturer's name, type, and color.
- E. Before installation, inspect products for damaged or defectives.
- F. Scrap material should be recycled.

1.7 WARRANTY

- A. Levanté®, LLC expressly warrants its products are free from manufacturing defects in material and workmanship if installed in accordance with our specifications, property maintained, and used for their intended purpose for a period of 15 years.
- B. Decoral® expressly warrants for 15 years the color change will be less than five CIE Lab AE units calculated in accordance with AAMA 2604. The surface will exhibit a gloss retention of at least 30% of the original.
- C. Warranty is given to either (1) the original purchaser of the products; or (2) the owner of the property at the time of installation of the product.
- D. See warranty at levantealuminum.com for detailed information on terms, conditions and limitations.

PART 2- PRODUCTS:

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Levanté®, LLC, 901 Northview Rd, Suite 100, Waukesha, WI. 53188 www.levantealuminum.com
- B. Acceptable Distributor: Hallmark Building Supplies, Inc., 901 Northview Rd, Suite 100, Waukesha, WI. 53188. Toll Free: 1.800.642.2246, Fax: 1.800.688.7842, www.hllmark.com

2.2 SYSTEM PERFORMANCE

- A. Minor deviations to details shown on drawings to accommodate manufacturer's standard products may be acceptable by Architect of Record (AOR) when deviations do not affect design concept and specified performance.

2.3 PRODUCTS

1. Basis of Design Product: Levanté® Interlocking Boards
 - a. Profile Color: Toasted Marshmallow, Twilight Sun, Moonlight Kiss
 - b. Profile: Smooth woodgrain finish
 - c. Exposed Dimensions: 4" (96 mm) or 6" (150 mm)
 - d. Installed Panel Thickness: .63" (16 mm)
 - e. Finish: Semi-gloss
 - f. Weight:
 - i. 4" – .628 lbs. per ft
 - ii. 6" – .876 lbs. per ft
 - g. Approximate Coverage:
 - i. 4" – 6.33 sqft per board
 - ii. 6" – 9.5 sqft per board
2. Basis of Design Product: Levanté® Self-mating Boards
 - a. Profile Color: Toasted Marshmallow, Twilight Sun, Moonlight Kiss
 - b. Profile: Smooth woodgrain finish
 - c. Exposed Dimensions: 4" (100 mm) or 6" (150 mm)
 - d. Installed Panel Thickness: .63" (16 mm)
 - e. Finish: Semi-gloss
 - f. Weight:
 - i. 4" – .694 lbs. per ft (2 board thickness)
 - ii. 6" – 1.378 lbs. per ft (2 board thickness)
 - g. Approximate Coverage:
 - i. 4" - 6.33 sqft per board
 - ii. 6" – 9.5 sqft per board
3. Basis of Design Product: Levanté® Standard Boards
 - a. Profile Color: Toasted Marshmallow, Twilight Sun, Moonlight Kiss
 - b. Profile: Smooth woodgrain finish
 - c. Exposed Dimensions: 2.5" (65 mm), 4" (100 mm) or 6" (150 mm)
 - d. Installed Panel Thickness: .63" (16 mm)
 - e. Finish: Semi-gloss
 - f. Weight:
 - i. 2.5" – .333 lbs. per ft
 - ii. 4" – .601 lbs. per ft
 - iii. 6" – .953 lbs. per ft
 - g. Approximate Coverage:
 - i. 2.5" - 3.95 sqft per board
 - ii. 4" – 6.33 sqft per board
 - iii. 6" – 9.5 sqft per board
4. Accessory/Components:
 - a. Inside/Outside Corners (front and back)
 - b. Starter Track
 - c. Door and Window Trim (front and back)
 - d. H Trim (front and back)
 - e. Finishing Trim
 - f. Finishing Concealer

- g. Finishing Angle
 - h. For a full listing of all components visit www.levantealuminum.com
5. Substitutions: Not Permitted
 6. Requests for substitutions will be considered in accordance with the guidelines outlined in Section 01 60 00.

2.4 MATERIALS

- A. Aluminum components manufactured utilizing an extrusion die.
- B. Components are prefinished and machine applied.
- C. Material Variation: It is suggested to lay out several boards at a time to look for material variation. Avoid installing similar material consecutively. If similar grain pattern repetition cannot be avoided, staggering the pattern can be helpful.

2.5 INSTALLATION COMPONENTS

- A. All installation components are aluminum and have a factory finish matching the finish of the Interlocking, Self-Mating and Standard Boards
- B. Interlocking Boards – LDC419 and LDC619
 1. Starter Trim – LDS319
 2. Finishing Trim – LDCF219
 3. Finishing Concealer – LI119
 4. H Trim Front – LCTJ219
 5. H Trim Back – LCBJ419
 6. Door and Window Trim Front – LCTCL319
 7. Door and Window Trim Back – LCF319
 8. Inside Corner Trim – LCMC119
 9. Outside Corner Trim – LCFC119
- C. Self-Mating Boards
 1. Finishing Trim – LDCF219
 2. Finishing Concealer – LI119
 3. H Trim Front – LCTJ219
 4. H Trim Back – LCBJ419
 5. Door and Window Trim Front – LCTCL319
 6. Door and Window Trim Back – LCF319
 7. Inside Corner Trim – LCMC119
 8. Outside Corner Trim – LCFC119
- D. Standard Boards
 1. Finishing Trim – LDCF219
 2. Finishing Concealer – LI119
 3. H Trim Front – LCTJ219
 4. H Trim Back – LCBJ419
 5. Door and Window Trim Front – LCTCL319
 6. Door and Window Trim Back – LCF319
 7. Inside Corner Trim – LCMC119
 8. Outside Corner Trim – LCFC119
- E. Fasteners: Corrosion resistant fasteners, such as hot-dipped galvanized screws appropriate to local building codes and practices must be used. Use Hardened Aluminum fasteners in high humidity and high-moisture regions. Panel manufacturer is not liable for corrosion resistance of fasteners. Do not use fasteners that are not rated or designed for intended use. See manufacturer's instructions for appropriate fasteners for construction method used.
- F. Flashing: Flash all areas specified per manufacturer and design professional.

- G. Sealant: Sealant to comply with ASTM C920, Class 50

PART 3: Execution

3.1 EXAMINATION

- A. Verification of Conditions
 - 1. Aluminum components can be installed over wood-based sheathing including 7/16" OSB and 1/2" plywood per published testing.
 - 2. Allowable Stud Spacing: 16" OC maximum
 - 3. A weather resistive barrier such as DuPont™ Tyvek® is required when installing aluminum components. Use an approved weather resistive barrier as defined by the 2015 IBC or IRC.
 - 4. Appropriate metal flashing should be used to prevent moisture penetration around all doors, windows, wall bottoms, material transitions and penetrations. Refer to local building codes for best practices.
 - 5. Examine site to ensure substrate conditions are within proper installation tolerances.
 - 6. Do not begin installation until proper conditions are present.
 - 7. Do not install components that are either damaged or defective.

3.2 INSTALLATION

- A. General: Install products in accordance with the latest installation guidelines of the manufacturer and all applicable building codes and other laws, rules, regulations and ordinances. Review all manufacturer installation, maintenance instructions, and other applicable documents before installation.
- B. Vertical Control/Expansion Joints are required at each vertical joint utilizing Levanté® Front and Back H Trim.
- C. Horizontal Compression Joints are required for multi-story installations of Levanté®. Locate joints at floor lines and per architectural drawings. Joints are flashed minimum 1" breaks. Do not caulk. Refer to installation guidelines.

3.3 CLEANING AND MAINTENANCE

- A. Refer to manufacturer's guidelines for detailed care instructions.