

PART 1 - GENERAL---

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of this Section of the Specifications.

1.2 DESCRIPTION OF WORK

- A. Provide labor, materials, equipment, and services required to furnish and install the EasyTrim® Reveals Lap Trim System for Lap cladding assemblies, including but not limited to the following:
1. Wall Aluminum Lap trim profiles for nominal 5/16 inch (8 mm) Lap thickness.
  2. Vertical and horizontal reveal trims, corner trims, termination trims, and window and door opening trims.
  3. Transition trim profiles for Lap thickness transitions from 5/16 inch (8 mm) to 3/4 inch (19 mm).
  4. Accessories and universal trims indicated for use with the LAP Trim System.
  5. This Section applies exclusively to the EasyTrim® Reveals Lap Trim System and associated 5/16 inch to 3/4 inch Transition Trim System.
  6. Trim profiles from other EasyTrim® systems shall not be substituted or intermixed unless explicitly approved in writing by the Manufacturer.

1.3 REFERENCES

- A. General: The publications listed within form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only. The edition/revision of the referenced publications shall be the latest date as of the date of the contract documents, unless otherwise specified.
- B. American Architectural Manufacturers Association (AAMA):
1. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum.
  2. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
  3. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
- C. ASTM International (ASTM):
1. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
  2. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- D. US Green Building Council: LEED v 4.1

1.4 SUBMITTALS

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

- B. Product Data: Sufficient information to determine compliance with the Drawings and Specifications.
  - 1. Manufacturer's information sheets marked to include products proposed for use. This includes, but is not limited to, construction details, material descriptions, dimensions of individual components and profiles, and finishes for trim and accessories.
  - 2. Storage and handling recommendations.
- C. Shop Drawings: For each product and accessory required.
  - 1. Include information not fully detailed in manufacturer's standard product data, including, but not limited to:
    - a. Installation layouts of trim and accessories
    - b. Details: Edge conditions, joints, profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
    - c. Accessories: Include details of the flashing, trim, and anchorage, at a scale of not less than 1-1/2 inches [38 mm] per 12 inches [305 mm].
    - d. Distinguish between factory- and field-assembled work.
- D. Samples:
  - 1. For initial color selection.
  - 2. For aluminum trim indicated with factory-applied color finishes.
  - 3. Finishes Involving Normal Color Variations: Include samples showing the full range of variations expected.
  - 4. Exposed Sealants: Each type and color required. Install joint sealants in 1/2-inch-wide joints formed between two 6-inch-long strips of material matching the appearance of metal panels adjacent to joint sealants.
- E. LEED v 4.1 Submittals: Provide documentation of how the requirements of Credit will be met:
  - 1. Product Data for Credit MR 2.1 and 2.2: For products being recycled, documentation of total weight of project waste diverted from landfill.
  - 2. Product Data for Credit MR 4.1 and MR 4.2: For products that have recycled content, documentation including percentages by weight of post-consumer and pre-consumer recycled content.
  - 3. Include statement indicating costs for each product having recycled content.
  - 4. Product Data for Credit MR 5.1 and Credit MR 5.2: Submit data, including location and distance from Project of Material: manufacturer and point of extraction, harvest, or recovery for main raw material.
  - 5. Include statement indicating cost for each regional Material: and the fraction by weight that is considered regional.

## 1.5 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: An employer of workers trained and approved by manufacturer.
    - a. A minimum of 5 years of experience, and has completed systems similar in material, design, and extent to that indicated for the Project and with record of successful performance.

- b. Installer's Responsibilities: Include fabricating and installing metal panel assemblies and providing professional engineering services needed to assume engineering responsibility.
- B. Regulatory Requirements: Comply with applicable requirements of the laws, codes, ordinances, and regulations of Federal, State, and local authorities having jurisdiction.
  - 1. Obtain necessary approvals from such authorities.
- C. Mock-Ups: Build mockups to verify selections made and to demonstrate aesthetic effects and to set quality standards for fabrication and installation.
  - 1. Demonstrate prepared substrate, support/attachment framing, siding façade with aluminum trim, exterior finishes, and aesthetic appearance.
  - 2. Confirm mock-up conforms with manufacturer's instructions and provisions of contract documents.
  - 3. To be accepted in writing by architect or general contractor before commencement of work.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to the project site in Supplier's or Manufacturer's original wrappings and containers, labeled with Supplier's or Manufacturer's name, material or product brand name, and lot number, if any.
- B. Materials Storage: Store in original, undamaged packages and containers, inside a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.
  - 1. Unload and store trim and accessories in a manner to prevent bending, warping, twisting, and surface damage.
  - 2. Trim and Accessories:
    - a. Stack trim and accessories off floor on pallets or similar platforms providing continuous support to prevent sagging. Stack accessories so that long lengths are not over short lengths.
    - b. Cover with suitable weathertight and ventilated covering.
    - c. Ensure dryness, with positive slope for drainage of water.
    - d. Do not store in contact with other materials that might cause staining, denting, or other surface damage.
    - e. Do not allow storage space to exceed 120 degrees F (67 degrees C).
    - f. Handling: Prevent damage to surfaces, edges, and ends of aluminum trims. Reject and remove damaged Material: from site.

#### 1.7 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal composite material panels to be performed according to manufacturers' written instructions and warranty requirements.
- B. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before trim fabrication and indicate measurements on Shop Drawings.
  - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, either establish framing and opening dimensions and proceed with fabricating metal panels without field measurements or allow for field adjustment of trim. Coordinate wall

construction to ensure that actual building dimensions, locations of structural members, and openings correspond to established dimensions.

## 1.8 COORDINATION

- A. Coordination: Coordinate trim and accessories systems with rain drainage work, flashing, siding and/or wall panels and construction of walls and other adjoining work to provide a leak proof, secure, and non-corrosive installation.

## 1.9 WARRANTY

- A. Manufacturer's limited 15-year warranty.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURER

- A. Acceptable Manufacturer: Engage Building Products Phone: 1-877-973-8746 URL: [www.engagebp.com](http://www.engagebp.com); Email: [info@engagebp.com](mailto:info@engagebp.com)
  - a. Substitutions: [Approved equals.] [Not permitted.] [Submit as specified in accordance with appropriate sections in Division 01.] [In accordance with Section 01 60 00.]

### 2.2 DESIGN / PERFORMANCE REQUIREMENTS

- A. Allowable tolerances in horizontal planes:
  - 1. Allowable Deviation from Specified Length: 10 ft; +1/4 inch, -0 inches.
- B. Allowable tolerances in framed vertical construction.
  - 1. Position: +1/4 inch maximum variation from design position.
  - 2. Alignment: 1/8 inch in 8 ft; 1/4 inch maximum in any continuous wall, line, or surface.

### 2.3 MATERIALS AND FINISH

- A. Extruded Aluminum Shapes: ASTM B 221, 6063-T6 0.050 inches [1.27 mm] +/-0.005 inches (0.13 mm).
- B. Mechanical Fasteners: Aluminum, stainless steel, or other non-corrosive Material: compatible with aluminum trim.
  - 1. Wood Substrates: Hot-dipped galvanized ring-shank nails, minimum 1-1/4 inch (32 mm) length or longer as required to achieve required penetration.
  - 2. Metal Substrates: Self-piercing galvanized or stainless-steel screws, minimum 3/4 inch (19 mm) length or longer as required, with low-profile head.
  - 3. Wood Substrates: Self-tapping galvanized or stainless-steel screws, minimum 3/4 inch (19 mm) length or longer as required, with low-profile head.
- C. Standard lengths are 10 feet [3048 mm] unless otherwise indicated or specified.
- D. Finish: Anodized Finish.

1. Color: Satin Clear 10 / Aluminum Association Specification: AA-M12C22A31.
    - a. Architectural Class II. Minimum 10 $\mu$  (0.4 mil) coating.
  2. Color: Black 18 / Aluminum Association Specification: AAM12C22A44
    - a. Architectural Class II – Minimum 18 $\mu$  (0.7 mil) coating.
- E. Finish: Primed.
1. Primer: Oven baked, PPG Duracon 100 Beige Primer. For site paint application with high-quality acrylic latex paint or factory pre-finished with high-quality acrylic latex paint or powder coat.
- F. Finish: ColorMatch® Pre-Finished Custom Color: Factory applied high-quality acrylic latex paint.
1. Air dried and cured.
- 2.4 LAP TRIM SYSTEM, 3/4 INCHES [19 mm]
- A. Basis of Design: 3/4 inch [19 mm] Trim System: For 5/16 inch [8 mm]. Lapped Siding or less than 3/4 inch [19 mm] thick wall or faced panels.
1. Extruded Aluminum Alloy per ASTM B221, 6063-T6. 0.050 inches +/-0.005 inches.
  2. Dimensions: As indicated in the Drawings.
  3. Trim Profile: EZ 31. 1-Piece Square Outside Corner 3/4 inch [19 mm].
    - a. Creates a rigid, straight, and true, abuse resistant outside corner with 3/4 inch [19 mm] tabs that cover and protect the vertical ends of the inset lapped planks or panel.
  4. Trim Profile: EZ 33. Arrow Outside Corner 3/4 inch [19 mm].
    - a. Creates a rigid, straight, and true, abuse resistant outside corner with 1-3/4 inch (44 mm) tabs that cover and protect the vertical ends of the inset lapped planks or panel.
  5. Trim Profile: EZ 34. X Outside Corner 3/4 inch [19 mm].
    - a. Creates a rigid, straight, and true, abuse resistant outside corner with 3/4 inch [19 mm] tabs that cover and protect the vertical ends of the inset lapped planks or panel.
  6. Trim Profile: EZ 35. Multi-Angle Outside Corner 3/4 inch [19 mm]. 105 to 160 degrees.
    - a. Consists of two individual profiles joined together with a hinge to create a rigid, straight, and true corner that can be adjusted from 105 to 160 degrees and used when outside corner deviates from square. 3/4 inch [19 mm] tabs cover and protect the vertical ends of the inset lapped planks or panel.
  7. Trim Profile: EZ 36. Inside Corner 3/4 inch [19 mm].
    - a. Creates a rigid, straight, and true, inside corner with 3/4 inch [19 mm] tabs that fully cover protect the vertical ends of the inset lapped planks or panel.
  8. Trim Profile: EZ 37. Multi-Angle inside Corner 3/4 inch [19 mm]. 105 to 160 degrees.

- a. Consists of two individual profiles joined together with a hinge to create a rigid, straight, and true corner that can be adjusted from 105 to 160 degrees and used when inside corner deviates from square. 3/4 inch [19 mm] tabs cover and protect the vertical ends of the inset lapped planks or panel.
9. Trim Profile: EZ 38. 2-Piece Vertical "U" 3/4 inch [19 mm].
    - a. A two-piece assembly consists of a backplate and top cap.
    - b. Top Cap: A 1/2 inch [13 mm] tab, 1/2 inch [13 mm] reveal, 1/2 inch [13 mm] tab design. Covers and protects the vertical edges of the inset lapped planks or panel and is joined to the backplate with the EZ Lock® SnapLock engagement.
  10. Trim Profile: EZ 39. 2-Piece Vertical Window 3/4 inch [19 mm].
    - a. A two-piece assembly consists of a backplate and top cap.
    - b. Top Cap: A 1/2 inch [13 mm] tab, 1/2 inch [13 mm] reveal, 1/2 inch [13 mm] tab design. Covers and protects the vertical edge of the panel and is joined to the backplate with the EZ Lock® SnapLock engagement.
    - c. The caulk channel on backplate accepts back-caulking application along the vertical elements of window and doorframe.
    - d. Used vertically around windows, doors, and other wall penetrations.
  11. Trim Profile: EZ 40. General "J" 3/4 inch [19 mm].
    - a. Creates a straight and true terminating point with a 3/4 inch [19 mm] tab that covers and protects the vertical ends of the inset lapped planks or panel.
    - b. Can be used around the sides and bottoms of windows and doors and other wall penetrations.
  12. Trim Profile: EZ 48. Horizontal Base "Z" 3/4 inch [19 mm].
    - a. Provides the kickout required to start LAP plank installation. A 1 inch [25 mm] tab hides any unsightly exposed gaps. Blocks any moisture from getting up to the nailing flange and beyond. Ensures the moisture properly drains.
- 2.5 TRANSITION TRIM SYSTEM — 5/16" TO 3/4" [8 mm to 19 mm]
- A. Basis of Design: EasyTrim® Reveals 5/16" to 3/4" Transitional Trim System for transitions between LAP cladding products of differing thicknesses.
    1. Extruded aluminum alloy per ASTM B221, 6063-T6.
    2. Nominal material thickness: 0.050 inch [1.27 mm], unless noted otherwise.
    3. Profiles supplied in standard 10'-0" [3048 mm] lengths, unless noted.
    4. EZ 11. 2-Piece Vertical U Transition Trim.
      - a. Two-piece assembly consisting of mechanically fastened back plate and snap-fit top cap.
      - b. Designed for vertical transitions between 5/16" and 3/4" LAP thicknesses.
    5. EZ 16. 2-Piece Outside Corner Transition Trim
      - a. Two-piece outside corner profile for transitions between differing LAP depths. Designed for vertical transitions between 5/16" and 3/4" LAP thicknesses.

- b. Accommodates non-uniform cladding thickness at exterior corners.
- 6. EZ 17. Inside Corner Transition Trim
  - a. Single-piece inside corner trim allowing termination of LAP products with differing thicknesses at 90-degree inside corners.
- 7. EZ 45. Multi-Angle Outside Corner Transition Trim
  - a. Adjustable outside corner profile for angles 105° to 160°.
  - b. Used where corner conditions deviate from square.
- 8. EZ 46. Multi-Angle Inside Corner Transition Trim
  - a. Adjustable inside corner profile for angles 105° to 160°.
  - b. Maintains continuous reveal alignment through variable angles.

## 2.6 UNIVERSAL TRIMS

### A. Basis of Design: Universal Horizontal Trims:

- 1. Universal Trim Profile: EZ 28. 1-3/8 inch Drip Cap Flashing.
  - a. Channels water/ moisture away from the tops of windows, doors, and other openings.
- 2. Universal Trim Profile: EZ 60. Perforated Vented Starter Strip (Vinyl)
  - a. Perforations allow for ventilation into the rainscreen cavity while keeping bugs out.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Panels: Install in accordance with the latest edition of the manufacturer's Installation Instructions.
- B. EasyTrim® Reveals: Install in accordance with the Installation Guide Aluminum Trim System for Panel.

### 3.2 SPECIAL CONSIDERATIONS AND BEST PRACTICES

- A. Never install the General J trim horizontally in a manner that may allow the J trim to collect water.
- B. Never install any vertical trims horizontally in a manner that may allow them to collect water.
- C. Install cut edges of panels and/or planks at door and window openings, and at intersections with other material. Seal cut edges of panels and/or planks according to manufacturer's recommendations.
- D. EasyTrim® Reveals are not to be used as a primary form of through wall or wall penetration flashings and are not designed to replace flashings that are required by local building codes or the buildings envelope engineers, consultants, or architects.

3.3 PROTECTION

- A. Protect EasyTrim® Reveals and accessories from damage until completion of project. Handle trims and accessories as a finished product.
- B. Touch-up, repair or replace damaged products before substantial completion.

**END OF SECTION**