

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® Streamline Advanced Aluminum Trim System for panelized exterior cladding assemblies, including but not limited to the following:
1. Aluminum trim profiles for nominal 5/16 inch (8 mm) exterior panel thicknesses.
 2. Streamlined vertical and horizontal trims, outside corner trims, window and door opening trims, and soffit trims.
 3. Accessories and universal trims indicated for use with the EasyTrim® Streamline Trim System.
 4. This Section applies exclusively to the EasyTrim® Streamline Advanced Aluminum Trim System.
 5. EasyTrim® Streamline is intended for panelized, non-lapped applications only.
 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. Coordinate trim and accessories with air and water barrier systems, flashings, panel installation, and adjoining construction to provide a weather-resistant, durable, and secure 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; Email: 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 installation tolerances.
 - 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 μ (0.4 mil) coating.
 2. Color: Black 18 / Aluminum Association Specification: AAM12C22A44
 - a. Architectural Class II – Minimum 18 μ (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 STREAMLINE TRIM SYSTEM, 5/16 INCHES [8 mm]
- A. Basis of Design: EasyTrim® Streamline Advanced Aluminum Trim System for nominal 5/16 inch [8 mm] panelized exterior cladding assemblies.
1. Extruded Aluminum Alloy per ASTM B221, 6063-T6. 0.050 inches +/-0.005 inches.
 2. Dimensions: As indicated on the Drawings.
 3. Trim profiles designated with “EZ” numbers are proprietary EasyTrim® Streamline profiles.
 4. Trim Profile: EZ 13. Arrow Outside Corner 5/16 inch [8 mm].
 - a. Creates a rigid, straight, and true, abuse resistant outside corner with 1 inch [25 mm] tabs that cover and protect the vertical ends of the 5/16 inch [8 mm]. panel.
 5. Trim Profile EZ 22. Horizontal SLT Z 5/16 inch [8 mm].
 - a. Provides a level base to start the wall area and frame the bottom row of wall panels with a 1-1/4 inch [32 mm] tab.
 6. Trim Profile: EZ 23. 2-Piece Vertical SLT 5/16 inch [8 mm].
 - a. A two-piece assembly consisting of a backplate and top cap.
 - b. Top Cap: 1-1/4 inch [32 mm] flat trim design. Covers and protects the vertical edges of the panel. Joined to the backplate with the EZ Lock® SnapLock engagement.
 7. Trim Profile: EZ 24. 2-Piece Vertical Window SLT 5/16 inch [8 mm].
 - a. A two-piece assembly consisting of a backplate and top cap.
 - b. Top Cap: 1-1/4 inch [32 mm] flat trim design. Covers and protects the vertical edge of the panel and joined to the backplate with the EZ Lock® SnapLock engagement.
 8. Trim Profile: EZ 29. Perforated Soffit 5/16 inch [8 mm].
 - a. Perforations allow for ventilation into the soffit cavity while keeping bugs out.

2.5 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. Install in accordance with the latest edition of the manufacturer's Installation Instructions.
- B. Install EasyTrim® Streamline trims plumb, level, and aligned to maintain consistent joint expression.

3.2 SPECIAL CONSIDERATIONS AND BEST PRACTICES

- A. Do not install vertical trims in horizontal orientations that may collect water.
- B. Coordinate trim installation with required flashings and water-resistive barriers.
- C. Seal cut panel edges in accordance with panel manufacturer's recommendations.
- D. EasyTrim® Streamline trims are not intended to function as primary through-wall or penetration flashings and shall not replace flashings required by applicable building codes or the building envelope consultant.

3.3 PROTECTION

- A. Protect EasyTrim® Streamline trims 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