



SECTION 07 42 13
EXTRUDED BATTENS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Aluminum battens.

1.2 RELATED SECTIONS

- A. Section 05 40 00 - Cold-formed Metal Framing: Metal framing for support of plank.
- B. Section 06 10 00 - Rough Carpentry.
- C. Section 07 62 00 - Sheet Metal Flashing and Trim.

1.3 REFERENCES

- A. American Architectural Manufacturers Association (AAMA):
 - 1. Aluminum finishes AAMA 2604 Powder Coat: High-performance super durable polyester resin.
 - 2. Aluminum finishes AAMA 2605 Superior-performance coating in either 70 percent (Polyvinylidene Fluoride) liquid paint coating, 70 percent PVDF 2 coat FEVE (Fluoroethylene Vinyl Ether) powder coating.
- B. American Society for Testing and Materials (ASTM):
 - 1. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 degrees
 - 2. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 3. ASTM E2768 - Standard Test Method for Extended Duration Surface Burning Characteristics for Building Materials (30 min test tunnel).

1.4 SUBMITTALS

- A. Product Data:
 - 1. Manufacturer's data sheets on each product to be used.
 - 2. Preparation instructions and recommendations.
 - 3. Storage and handling requirements and recommendations.
 - 4. Typical installation methods.
- B. Verification Samples: Two representative units of each type, size, pattern, and color.
- C. Shop Drawings: Provide dimensions for individual components and profiles, including layout, joints, expansion joints, material descriptions, construction details, anchorage methods, and interfaces with adjacent materials and finishes for each screen type and accessory.
- D. Certifications: Submit certificates that the products comply with or exceed the specified requirements.
- E. Closeout Submittals: Manufacturer provided maintenance instructions outlining recommended practices for routine cleaning and maintenance of components.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer has a minimum of five years of experience in manufacturing extruded batten systems of this nature. The aluminum battens specified in this section shall be produced in a professional factory environment.
- B. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
- C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.
- D. 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. The intent of a mock-up is to demonstrate quality of workmanship and visual appearance.
 - 2. If the mock-up is not acceptable, rebuild the mock-up until satisfactory results are achieved.
 - 3. Retain mock-up during construction as a standard for comparison with completed work.
 - 4. Do not alter or remove mock-up until work is completed or removal is authorized.

1.6 PRE-INSTALLATION CONFERENCE

- A. 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 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver batten system to job site in manufacturer's original unopened packaging.
- B. Handling: Exercise extreme care in unloading, storing, and erecting batten system to prevent bending, warping, twisting, scratches, and surface damage.

- C. Storage: Store in accordance with manufacturer's written instructions keeping materials and accessories above ground on well skidded platforms or crates away from moisture and excessive UV exposure.

1.8 WARRANTY

- A. Manufacturer's standard limited warranty unless indicated otherwise.
 - 1. A guaranteed warranty of fifteen years is to be signed and issued in the name of the owner to cover the extruded batten material.
 - 2. This warranty is limited to replacement of defective material only.
 - 3. Not Covered: Faulty installation which is to be rectified by the installing contractor. The manufacturer is not liable for incidental expenses or consequential damages.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Alumination Architectural Products, 2108 E Richmond Ave.; Fort Worth, TX 76104; Tel: 817-678-4440; Email: [request info \(info@alumination-ap.com\)](mailto:info@alumination-ap.com); Web: <https://alumination-ap.com>
- B. Substitutions: Not permitted.

2.2 EXTRUDED ALUMINUM BATTENS

- A. Basis of Design: EcoFlex Batten System manufactured by Alumination Architectural Products. Snap fit base and cap.
 - 1. Extrusion Wall Thickness: 0.063in (1.60 mm) minimum.
 - 2. Alloy: 6063-T6
 - 3. Batten Base: 2 inch (51 mm) wide. Suitable for all specified extensions.
 - 4. Batten Extension: 2 inches (51 mm).
 - 5. Batten Extension: 4 inches (102 mm).
 - 6. Batten Extension: 6 inches (152 mm).
 - 7. Batten Extension: 8 inches (203 mm).
- B. End Caps: Fasteners insert into countersunk openings in end caps for flush fit as indicated where ends are visible.
- C. Hardware and Fasteners: Bolts and screws to be zinc plated or galvanized steel required to suit application.
- D. Finish: Powder Coating: Electrostatically applied.
 - 1. Coating: 0.002 to 0.004 inches (0.051 to 0.102 mm) per manufacturers recommendations.
- E. Color: As determined by the Architect from Manufacturer's Standard Colors:
 - 1. Woodgrain: Dark Cherry
 - 2. Woodgrain: Dark Oak
 - 3. Woodgrain: Douglas Fir
 - 4. Woodgrain: Medium Cherry
 - 5. Woodgrain: Light Walnut
 - 6. Woodgrain: National Walnut
 - 7. Woodgrain: Red Oak
 - 8. Woodgrain: Smoked Chestnut
 - 9. Solid: Antique Bronze
 - 10. Solid: Bone White
 - 11. Solid: Burgundy
 - 12. Solid: Charcoal Gray

13. Solid: Dark Bronze
14. Solid: Fashion Gray
15. Solid: Hartford Green
16. Solid: Matte Black
17. Solid: Military Blue
18. Solid: Rustic Texture
19. Solid: Sandstone
20. Solid: Satin White
21. Solid: Stardust Silver
22. Solid: Super Black

- F. Non-Standard Colors:
1. Woodgrain: Blonde Teak
 2. Woodgrain: Cabana Teak
 3. Woodgrain: Charcoal Barnwood
 4. Woodgrain: English Mahogany
 5. Woodgrain: Fonthill Cherry
 6. Woodgrain: Light Maple
 7. Woodgrain: Southern Pecan
 8. Woodgrain: Table Walnut
 9. Woodgrain: Barnwood
 10. Woodgrain: White Oak

2.3 PERFORMANCE REQUIREMENTS

- A. Design components to withstand applicable live and dead loads per governing code.
- B. Accommodate thermal movement and deflection of supporting structure without damage.
1. Accommodate differential movement between batten system components and adjacent or perimeter construction caused by seasonal temperature variation.
 - a. Thermal Expansion of Aluminum: Install components in accordance with the manufacturer's recommended installation, spacing, and gapping requirements to allow for thermal movement.
 2. Allow for dynamic loads, including loading and release cycles, without damage to system components or connections.
 3. Accommodate deflection of supporting structural framing without inducing stress, distortion, or failure of the cladding system.
- C. Drainage: Provide positive drainage to exterior
- D. Fire Performance
1. 6063-T6 Aluminum components are inherently non-combustible.
 - a. Where required by code, systems shall be evaluated as part of a complete wall assembly in accordance with NFPA 285.
 2. Tested in accordance to ASTM E84: Class A surface burning characteristics

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until the substrates have been properly constructed and prepared.
1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
 2. Verify installation may be made in accordance with approved shop drawings and manufacturer's instructions.

- B. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.

3.2 PREPARATION

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

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions, approved submittals, as indicated on drawings, and in proper relationship with adjacent construction.
 - 1. Locate and place battens level, plumb and tight fitting at indicated alignment.
 - 2. Use concealed fasteners where possible unless otherwise noted or approved by architect.
 - 3. Install end caps at top and bottom of each batten.

3.4 CLEANING AND PROTECTION

- A. Clean work in accordance with manufacturer's recommendations.
- B. Repair or replace damaged materials prior to substantial completion. Upon completion of installation, maintain the product in accordance with the manufacturer's maintenance recommendations, including annual cleaning. Refer to warranty documentation for further requirements.

END OF SECTION