**SECTION 07 46 16**

**Extruded Battens**

**PART 1 – GENERAL**

* 1. **RELATED SECTIONS**

1. Section 05 40 00 – Cold-formed Metal Framing: Metal framing for support of plank.
2. Section 01 74 21 – Construction/Demolition Waste Management and Disposal
3. Section 06 10 00 – Rough Carpentry
4. Section 07 62 00 – Sheet Metal Flashing and Trim
5. Section 07 92 00 – Joint Sealants

**1.2 REFERENCES**

1. The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by the basic designation only.
2. American Welding Society (AWS):
3. Standard D1.2 – Structural Welding Code – Aluminum
4. American Architectural Manufacturers Association (AAMA):
5. Aluminum finishes AAMA 2604 Powder Coat: High-performance super durable polyester resin
6. Aluminum finishes AAMA 2605 Superior-performance coating in either 70% (Polyvinylidene Fluoride) liquid paint coating, 70% PVDF 2 coat FEVE (Fluoroethylene Vinyl Ether) powder coating

**1.3 QUALITY ASSURANCE**

A. Applicable standards:

1. SMACNA: Architectural Sheet Metal Manual

2. AAMA 2604: Voluntary specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels

3. AAMA 2605: Voluntary Specification, Performance requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum and Extrusions and Panels

4. ASTM B209: Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate

B. Manufacturer's qualifications:

1. Manufacturer has a minimum of 5 years of experience in manufacturing extruded batten systems of this nature. The aluminum batten specified in this section shall be produced in a professional factory environment.

**1.4 LEED**

1. Category – Material & Resources
   1. MR Credit 2.1, 2.2 – Construction Waste Management Divert 50% or 75% from Disposal
2. Category – Innovation and Design Process
   1. ID Credit – Biophilic Design (Wood Grain Powder Coating Only)

**1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING**

1. Delivery: Deliver batten system to job site properly packaged to provide protection against transportation damage.
2. Handling: Exercise extreme care in unloading, storing ,and erecting batten system to prevent bending, warping, twisting, scratches, and surface damage.
3. Storage: Store all materials and accessories above ground on well skidded platforms or crates.

**1.6 WARRANTY**

1. A guaranteed warranty of 15 (fifteen) years is to be signed and issued in the name of the owner to cover the extruded batten material. This warranty is limited to replacement of defective material only. This warranty does not cover faulty installation which is to be rectified by the installing contractor. The manufacturer is not liable for incidental expenses or consequential damages. Please see warranty details for more information.

**PART 2 – PRODUCTS**

* 1. **APPROVED MANUFACTURERS**

1. Specifications are based on Extruded Batten System – Alumination Architectural Products is located at 2108 E. Richmond Avenue, Fort Worth, TX 76104. 817.678.4440. [www.alumination-ap.com](http://www.alumination-ap.com)
2. Substitutions are acceptable assuming they comply with these specifications, are submitted based on Section 01XXXX – Substitution Requirements and have a minimum 5 years’ experience.
   1. **MATERIALS**
3. Batten Sections: Extruded aluminum base and extensions snap fit together. Minimal 1/16” wall thickness per extrusion.
   1. Batten Base: 2” wide base fit for all extensions listed
   2. Batten Extension: 2” aluminum extruded extension
4. End Caps: Fasteners insert into countersunk openings in end caps for flush fit as indicated where ends are visible.
5. Hardware and Fasteners: Bolts and screws to be zinc plated or galvanized steel required to suit application.
6. Finish: Electrostatically apply powder coating to 2 to 4 mil thickness per manufacturers recommendations.

**PART 3 – EXECUTION**

* 1. **FABRICATION**

1. Fabricate and finish battens.
2. Package and deliver with proper packaging to prevent damage and handle product with care. Store materials if needed once on site.
   1. **SURFACE CONDITIONS**
3. Examination:
4. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
5. Verify that installation may be made in accordance with approved shop drawings and manufacturer’s instructions.

**3.3 INSTALLATION**

1. Install battens per manufacturer’s written instructions and as indicated on drawings.
2. Locate and place battens level, plumb and tight fitting at indicated alignment.
3. Use concealed anchors where possible.
4. Install end caps at top and bottom of each batten.
5. Repair damaged finishes so no evidence remains of corrective work. Return items to the factory that cannot be refinished in the field. Make required alterations and refinish entire unit or provide new materials.
   1. **CLEANING AND PROTECTION**
6. Dispose of excess materials and remove debris from site.
7. Clean work in accordance with manufacturer's recommendations.
8. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the architect and work that becomes damaged prior to final acceptance.
9. Upon completion of installation, maintain life of product by properly cleaning annually. Refer to warranty details for more information.

**END OF SECTION**