

Manufacturer:

# Lumabuilt

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**GUIDE SPECIFICATION**

# SECTION 10 82 13

**EXTRUDED ALUMINUM BATTEN SCREENS**

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Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not appli- cable. Words and sentences within brackets [ ] reflect a choice to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices to be made. Remove these notes before final printing of specification.

This guide specification is written around the Construction Specifications Institute (CSI), Section Format standards references to section names and numbers are based on MasterFormat 2020.

For specification assistance on specific product applications, please contact our offices above or any of our 50 local service centers throughout the country.

Lumabuilt reserves the right to modify these guide specifications at any time. Updates to this guide specification will be posted to the manufacturer=s web site and/or in printed matter as they occur. Lumabuilt makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

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# PART 1 - GENERAL

* 1. SUMMARY
		1. Section Includes:
			1. Extruded aluminum decorative batten screens for [wall] [soffit] [ceiling] [sunscreen trellis] application.
			2. Trim and accessories for complete installation.
	2. PREINSTALLATION MEETINGS
		1. Preinstallation Conference: Conduct conference at project site.

* + - 1. Meet with Contractor, Architect, metal composite material panel Installer, metal composite material panel manufacturer's representative, structural support Installer, and installers whose work interfaces with or affects metal composite material panels, including installers of doors, windows, and louvers.
			2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
			3. Review methods and procedures related to metal composite material panel installation, including manufacturer's written instructions.
			4. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
			5. Review flashings, special siding details, wall penetrations, openings, and condition of other construction that affect metal composite material panels.
			6. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
			7. Review procedures for repair of panels damaged after installation.
			8. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.
	1. ACTION SUBMITTALS
		1. Product Data: For each type of product.
			1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of Batten and accessory.
		2. Shop Drawings:
			1. Include fabrication and installation layouts of aluminum battens; details of conditions, joints batten profiles, anchorages, attachment system, and accessories; and special details.
			2. Accessories: Include details of anchorage systems, at a scale of not less than 1- 1/2 inches per 12 inches.
			3. Delegated Design: Provide shop drawings signed and sealed by a structural engineer licensed to practice in the location of the project, indicating ability of system and attachment to supporting construction to resist indicated or code required loads.
		3. LEED or Environmentally Required Documents:
			1. Use primary and secondary 6XXX series aluminum alloys. Approximately 40% extruded products are produced with recycled secondary aluminum (32% post-consumer content and 8% pre-consumer content); material received and recycled by local suppliers. The remaining percentage of our production is to be processed from primary billet which typically contains 3 - 5% recycled aluminum. Aluminum products shall be 100% recyclable with no downgrading of the material qualities.
1. MR2.1 and 2.2: Construction waste management: 1-2 points
	* Aluminum recycling
2. MR4.1 and 4.2: Recycled Content: 1-2 points
	* Recycled content in aluminum extrusions
3. MR5.1 and 5.2: Regional Materials: 1-2 points
	* Recycled content recovered, reprocessed near project
4. ID1: Innovation in Design: 1 point
	* For use of Cradle-to-Cradle certified materials
		1. Samples:
			1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns (typical 3”x6”)(76 mm x 152mm). Include similar Samples of trim and accessories involving color selection (typical 6” length)(152 mm).
			2. Verification Samples: 6 inches (152 mm) long by actual panel width. Include fasteners, closures, and other metal panel accessories.
		2. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
	1. INFORMATIONAL SUBMITTALS
		1. Sample Warranties: For special warranties.
		2. Submit sustainability documentation for recycled content and other pertinent attributes in support of project’s sustainability goals.
	2. CLOSEOUT SUBMITTALS
		1. Maintenance Data: For metal cladding to include in maintenance manuals.
	3. QUALITY ASSURANCE
		1. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
		2. [Mockups]: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
			1. Build mockup of typical installation as indicated on Drawings; approximately four units wide, including attachments and accessories.
			2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
			3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
		3. [Lumabuilt Visage ACM ICC- Evaluation Service Report number is ESR-5449.]
	4. DELIVERY, STORAGE, AND HANDLING
		1. Deliver components, aluminum battens, and other manufactured items so as not to be damaged or deformed. Package aluminum battens for protection during transportation and handling.
		2. Unload, store, and erect aluminum battens in a manner to prevent bending, warping, twisting, and surface damage.
		3. Stack aluminum battens horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store battens to ensure dryness, with positive slope for drainage of water. Do not store battens in contact with other materials that might cause staining, denting, or other surface damage..
	5. FIELD CONDITIONS
		1. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of battens to be performed in accordance with manufacturers' written instructions and warranty requirements.
	6. COORDINATION
		1. Coordinate batten installation with rain drainage work, flashing, trim, construction of walls, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.10 WARRANTY

1. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal cladding systems that fail in materials or workmanship within specified warranty period. Warranty terms and conditions, found in the Lumabuilt warranty, apply.
	1. Failures include, but are not limited to, the following:
	2. Buckling not associated with the substrate and/or structure to which the Mosaic system is attached. Defined as 1/16" out of plane per linear foot.
2. Warranty on Cladding Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal cladding that show evidence of deterioration of factory-applied finishes within specified warranty period. Warranty terms and conditions, found in Lumabuilt's warranty, apply.
	1. **[Solid Color Finis**h Standard] Deterioration includes, but is not limited to, the following:
		1. Color Retention: Color fading more than 7 units from the original color, when tested in accordance with ASTM D2244.
		2. Gloss Retention: Finish will exhibit gloss retention of a minimum of 50% of the original gloss when measured in accordance to ASTM D523 at a 60° angle.
		3. Chalking Resistance: Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214 Test Method A.
		4. Checking and Cracking: Will not visibly check or crack in such a way as to significantly adversely affect the appearance of the surface.
		5. **Finish Warranty Period: Standard 20 years.**
	2. **[Woodgrain Finish Standard]** Deterioration includes, but is not limited to, the following:
		1. Color Retention: Color fading more than 5 units from the original color, when tested in accordance with ASTM D2244.
		2. Gloss Retention: The coated surface will exhibit gloss retention to a minimum of 30% from the original gloss.
		3. Chalking Resistance: Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
		4. Checking and Cracking: There will be no clearly visible checking or cracking of the painted finish on the products installed on the building.
		5. Paint Adhesion: Adhesion of Painted Finish when initially applied to test panels and measured by reference to AAMA 2604-02; Clause 7.4.2 will show no evidence of film removal.
		6. **Finish Warranty Period: Standard 15 years.**
	3. **[Woodgrain Finish Optional]** Deterioration includes, but is not limited to, the following:
		1. Color Retention: Color fading more than 5 units from the original color, when tested in accordance with ASTM D2244.
		2. Gloss Retention: The coated surface will exhibit gloss retention to a minimum of 30% from the original gloss.
		3. Chalking Resistance: Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
		4. Checking and Cracking: There will be no clearly visible checking or cracking of the painted finish on the products installed on the building.
		5. Paint Adhesion: Adhesion of Painted Finish when initially applied to test panels and measured by reference to AAMA 2604-02; Clause 7.4.2 will show no evidence of film removal.
		6. Finish Warranty Period: Optional:**: [Enhanced 20 years**] [AAMA 2604 10-year or AAMA 2605 20-year American Standard] **Additional costs may apply for 20-year warranty.**

# PART 2 - PRODUCTS

* 1. PERFORMANCE REQUIREMENTS
		1. Structural Performance: Provide battens capable of withstanding the effects of the following loads, based on testing in accordance with ASTM E1592:
			1. Wind Loads: As indicated on Drawings or as required to meet applicable building codes.
			2. Deflection Limits: For wind loads, no greater than 1/180 of the span.
		2. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
			1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.
		3. Flame Spread: Meets ATM E84, Class A.
	2. BATTENS
		1. Provide aluminum battens designed to be installed by mechanically attaching to supports using exposed or concealed fasteners. Include accessories required for weathertight installation.
		2. Battens: Extruded shapes, fabricated from either one- or two-piece construction (depending on profile selected).
			1. Acceptable Manufacturer and Product: Lumabuilt Mosaic (Alumaboard); [www.lumabuilt.com](http://www.lumabuilt.com)
			2. Substitutions: Submit in accordance with Section 01 60 00.
		3. Materials: Extruded aluminum meeting ASTM B221, Alloy 6063-T5, of 0.063 inch thickness.
			1. Standard Batten Length: 24 feet (7.2 M).

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* + - 1. Size and Configuration:
				1. [Solid battens:] [1x3] [1x4] [1x5] [1x6] [1x8] [4x10.75 cee fin] inches.]
				2. [2-piece assembled battens:] [6x1] [2x2] [2x3] [2x4] [2x6] [2x8] [2x10] [2x12] [4x2] [1x3] [1x4] [1x5] [1x6] [4x8] inches.
				3. [L-connect battens:] [1x3] [1x4] [1x5] [1x6] [4x8]
	1. FABRICATION
		1. Fabricate and finish battens and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
	2. FINISHES
		1. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
		2. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

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impact on cost, so as much detail as possible is encouraged.

# Aluminum Battens

* + - 1. Pretreatment: Chrome Free five stage aluminum pretreatment system. Complies with AAMA 2603 AAMA 2604 and AAMA 2605 Superior Performance Standard and meets EPA, OSHA, State and Local environmental requirements and contains no chromates, cyanides or other heavy metals. Waste treatment is usually a simple pH neutralization and disposal to the sanitary sewer.

[Select finish] Remove if not applicable

1. **[Wood Grains]**: Premium wood finishes using a polyurethane powder coat with ink-based wood grain patterns sublimated into the base powder. The combined effect creates all the aesthetic aspects of real wood. Color:[\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_]
2. **[Solid Colors]**: Premium finishes using a polyurethane powder coat available in smooth or fine textured finish. Color: [\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_]
3. **[Specialty Finishes]:** Premium finishes using a polyurethane powder coat with ink-based patterns sublimated into the base powder. The combined effect creates all the aesthetic aspects of finishes such as weathered steel, concrete, stone, marble, and other offerings. Color: [\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_]
	* + 1. Contact Lumabuilt for available wood grains, solid color options, and texture finishes.

# PART 3 - EXECUTION

* 1. EXAMINATION
		1. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, batten supports, and other conditions affecting performance of the Work.
			1. Examine framing to verify that girts, angles, channels, studs, and other structural batten support members and anchorage have been installed within alignment tolerances required by the batten manufacturer.
			2. Examine sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by batten manufacturer if applicable.
		2. Proceed with installation only after unsatisfactory conditions have been corrected.
	2. INSTALLATION
		1. Install battens in accordance with manufacturer's written instructions in orientation, sizes, and locations indicated. Anchor battens and other components of the Work securely in place, with provisions for thermal and structural movement.
			1. Shim or otherwise plumb substrates receiving battens.
			2. Locate and space fastenings in uniform vertical and horizontal alignment.

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* + 1. Fasteners:
			1. Use aluminum or epoxy-coated steel fasteners for surfaces exposed to the exterior; use aluminum or galvanized-steel fasteners for surfaces exposed to the interior.
		2. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting and provide for thermal expansion.

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* 1. CLEANING AND PROTECTION
		1. Remove temporary protective coverings and strippable films, if any, as battens are installed unless otherwise indicated in manufacturer's written installation instructions. On completion of batten installation, clean finished surfaces as recommended by manufacturer. Maintain in a clean condition during construction.
		2. After batten installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.

# END OF SECTION 10 82 13