SECTION 07 42 13

METAL WALL PANELS - EXTRUDED PLANK SYSTEM

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\*\* NOTE TO SPECIFIER \*\* Alumination Architectural Products; Architectural Products.
This section is based on the products of Alumination Architectural Products, which is located at:
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At Alumination Architectural Products, our roots are deeply set in commercial construction which gives us a unique perspective. Our passion is to create an environment where our people and partners can thrive. We are inspired to build personal and business relationships with subcontractors, general contractors, and architects. Together, we thrive.

1. GENERAL
	1. SECTION INCLUDES
		1. Metal Wall System; extruded plank system.
	2. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 01 74 21 - Construction/Demolition Waste Management and Disposal
		2. Section 05 40 00 - Cold-formed Metal Framing: Metal framing for support of plank.
		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. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. American Welding Society (AWS):
			1. Standard D1.2 - Structural Welding Code - Aluminum
		2. 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% (Polyvinylidene Fluoride) liquid paint coating, 70% PVDF 2 coat FEVE (Fluoroethylene Vinyl Ether) powder coating
		3. ASTM International (ASTM):
			1. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
			2. ASTM C423 - Standard Test Method for Surface Burning Characteristics Building Materials
			3. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
			4. ASTM E2768 - Standard Test Method for Extended Duration Surface Burning Characteristics for Building Materials (30 min test tunnel).
		4. Sheet Metal and Air Conditioning Contractors' National Association (SMACNA):
			1. Architectural Sheet Metal Manual
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00.
		2. 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.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern, and color.
		2. Shop Drawings: Include details of materials, construction, and finish. Include relationship with adjacent construction.
	1. QUALITY ASSURANCE
		1. Manufacturer's Qualifications: Manufacturer has a minimum of five years of experience in manufacturing extruded plank systems of this nature. The aluminum planks specified in this section shall be produced in a professional factory environment.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. 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. PRE-INSTALLATION CONFERENCE
		1. 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.
	2. PRODUCT DELIVERY, STORAGE AND HANDLING
		1. Delivery: Deliver extruded plank system to job site properly packaged to provide protection against transportation damage.
		2. Handling: Exercise extreme care in unloading, storing, and erecting extruded plank system to prevent bending, warping, twisting, scratches, and surface damage.
		3. Storage: Store materials and accessories above ground on well skidded platforms or crates.
	3. WARRANTY
		1. 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 plank material.
			2. The 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.
			4. See warranty details for more information.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Alumination Architectural Products, which is located at: 2108 E Richmond Ave.; Fort Worth, TX 76104; Tel: 817-678-4440; Email: [request info (info@alumination-ap.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Alumination+Architectural+Products&coid=54352&rep=&fax=&message=RE:%20Spec%20Question%20(07410aln):%20%20&mf=); Web: <https://alumination-ap.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with the provisions of Section 01 60 00.
	1. METAL WALL PANELS.
		1. Extruded Aluminum Plank: Vertical or Horizontal Plank system. Interlocking extruded plank with concealed fasteners.
			1. Alloy: 6063-T5.
			2. Minimum Extrusion Depth: 0.050 inches (1.27 mm) depth extruded aluminum.
			3. Nominal Plank Thickness: 0.063 inches (1.60 mm).

\*\* NOTE TO SPECIFIER \*\* Delete plank width options not required.

* + - 1. Plank Width: 3 inches (76 mm).
			2. Plank Width: 4 inches. (102 mm).
			3. Plank Width: 6 inches (152 mm).
			4. Plank Width: 8 inches (203 mm).
			5. Surface Burning Characteristics per ASTM E2768:
				1. Fire Rating: Class A.

Flame Spread Index: 0.

Smoke Development Index: 5.

\*\* NOTE TO SPECIFIER \*\* End caps are optional. Delete if not required.

* + 1. End Caps: Mechanically fastened to extruded screw bosses with provided concealed fasteners. Alloy: 6063-T5.

\*\* NOTE TO SPECIFIER \*\* Additional trim options are available. Contact manufacturer for more information.

* + 1. Trim: Two-piece extruded j-trim and/or corner trim.
			1. Nominal Thickness: 0.024 to 0.050 inches (0.61 to 1.37 mm).
		2. Finish: Powder Coating: Electrostatically applied.
			1. Coating: 0.002 to 0.004 inches (0.051 to 0.102 mm) per manufacturers recommendations.
			2. Color: As determined by the Architect from Manufacturer's offering.
1. EXECUTION
	1. EXAMINATION
		1. 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. Ensure waterproofing components that will be covered have been completed.
			3. Verify installation may be made in accordance with approved shop drawings and manufacturer's instructions.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, as indicated on drawings, and in proper relationship with adjacent construction.
			1. Install extruded plank system without waves, warps, buckles, fastening stresses or distortion.
			2. Use concealed anchors whenever possible.
				1. Rivets may be used where concealed anchors are not feasible.
			3. Install planks plumb, level and straight with seams parallel but not adjoining, conforming to design as indicated.
	4. CLEANING AND PROTECTION
		1. Dispose of excess materials and remove debris from site.
		2. Clean work in accordance with manufacturer's recommendations.
		3. Protect work against damage until final acceptance.
			1. Replace or repair to the satisfaction of the architect and work that becomes damaged prior to final acceptance.
				1. Repair damaged finishes so no evidence remains of corrective work.
				2. Return items to the factory that cannot be refinished in the field.

Make required alterations and refinish entire unit or provide new materials.

* + 1. Upon completion of installation, maintain life of product by properly cleaning annually. Refer to warranty details for more information.

END OF SECTION