

**SECTION 074213
METAL WALL PANELS**

PART 1 GENERAL**1.01 SECTION INCLUDES**

- A. Manufactured metal panels for exterior wall panels, with related flashings and accessory components.

1.02 RELATED REQUIREMENTS

- A. Section 061000 - Rough Carpentry: Wall panel substrate.
- B. Section 072100 - Thermal Insulation.
- C. Section 072500 - Weather Barriers: Weather barrier under wall panels.
- D. Section 079200 - Joint Sealants: Sealing joints between metal wall panel system and adjacent construction.
- E. Section 092116 - Gypsum Board Assemblies: Wall panel substrate.

1.03 REFERENCE STANDARDS

- A. 8 - test; 1.
- B. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2026.
- C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- D. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.
- E. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026a.
- F. AAMA 609 & 610 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum; 2025.

1.04 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data - Wall System: Manufacturer's data sheets on each product to be used, including:
 - 1. Physical characteristics of components shown on shop drawings.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation instructions and recommendations.
- C. Shop Drawings: Indicate dimensions, layout, joints, construction details, support clips, and methods of anchorage.
- D. Samples: Submit two samples of wall panel and soffit panel, 12 inches by 12 inches (305 mm by 305 mm) in size illustrating finish color, sheen, and texture.
- E. Manufacturer's qualification statement.
- F. Installer's qualification statement.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum ten years of documented experience.
- B. Installer Qualifications: Company specializing in installing products specified in this section with minimum three years of documented experience.

1.06 MOCK-UPS

- A. Construct mock-up, 8 feet (2.43 m) long by 4 feet (1.21 m) wide; include panel system, attachments to building frame, associated vapor retarder and air seal materials, weep drainage system, sealants and seals, and related insulation in mock-up.
- B. Locate as directed by Architect.
- C. Mock-up may remain as part of work.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap.
- B. Store prefabricated material off the ground and protected from weather; prevent twisting, bending, or abrasion; provide ventilation; slope metal sheets to ensure proper drainage.
- C. Prevent contact with materials that may cause discoloration or staining of products.

1.08 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.
- B. Finish Warranty: Provide 30 year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with warrantor.

PART 2 PRODUCTS**2.01 MANUFACTURERS**

- A. Metal Wall Panels - Concealed Fasteners:
 - 1. ATAS International, Inc; Versa-Seam: www.atas.com/#sle.

2.02 METAL WALL PANEL SYSTEM

- A. Wall Panel System: Factory fabricated prefabricated metal panel system, site assembled.
 - 1. Provide exterior wall panels and subgirt framing assembly.
 - 2. Design and size components to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of wall.
 - 3. Design Pressure: In accordance with applicable codes.
 - 4. Maximum Allowable Deflection of Panel: L/180 for length(L) of span.
 - 5. Movement: Accommodate movement within system without damage to components or deterioration of seals, movement between system and perimeter components when subject to seasonal temperature cycling; dynamic loading and release of loads; and deflection of structural support framing.
 - 6. Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.
 - 7. Panels to be tension leveled during the roll forming process.
 - 8. Fabrication: Formed true to shape, accurate in size, square, and free from distortion or defects; pieces of longest practical lengths.
 - 9. Corners: Factory-fabricated in one continuous piece with minimum 2-inch (51 mm) returns.
- B. Exterior Wall Panels:
 - 1. Profile: Vertical; rainscreen style with a 1/2" reveal
 - 2. Side Seams: Continuous interlock, concealing all raw edges.
 - 3. Material: Precoated aluminum sheet, 18 gauge, 0.0403 inch (1.02 mm) minimum thickness.
 - 4. Panel Width: 12 inches (254 mm).
 - 5. Panel Depth: 1" (25.4 mm).
 - 6. Texture: Embossed
 - 7. With End Folds.
 - 8. Color: Woodland Series - Cedar #54.

- C. Subgirt Framing Assembly:
- D. Internal and External Corners: Same material, thickness, and finish as exterior sheets; profile to suit system; shop cut and factory mitered to required angles.
- E. Expansion Joints: Same material, thickness and finish as exterior sheets; ____ gauge, ____ inch (____ mm) thick; manufacturer's standard brake formed type, of profile to suit system.
- F. Trim: Same material, thickness and finish as exterior sheets; brake formed to required profiles.
- G. Anchors: Galvanized steel.

2.03 MATERIALS

- A. Precoated Aluminum Sheet: ASTM B209/B209M, 3105 alloy, O temper, with smooth surface texture; continuous-coil-coated on exposed surfaces with specified finish coating and on panel back with specified panel back coating.

2.04 FINISHES

- A. Fluoropolymer Coil Coating System: Polyvinylidene fluoride (PVDF) multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent PVDF resin, and at least 80 percent of coil coated metal surfaces having minimum total dry film thickness (DFT) of 0.9 mil, 0.0009 inch (0.023 mm); color and gloss as selected by Architect from manufacturer's standard line.

2.05 ACCESSORIES

- A. Cladding Support Clips:
 - 1. Thermally-broken clips that provide attachment support for girts, angles, channels, and other cladding support framing.
- B. Sheathing Ventilation Shims:
 - 1. ASV spacer Shims - Polyoxymethylene (engineered thermoplastic) 3/8" stackable shims.
- C. Miscellaneous Sheet Metal Items:
 - 1. Provide factory formed flashings, gutters, downspouts, trim, moldings, closure strips, preformed crickets, caps, and equipment curbs of the same material, thickness, and finish as used for wall panels. Items completely concealed after installation may optionally be made of stainless steel.
 - 2. Fabricate trim and flashing components in minimum 12'-0" lengths, or as dictated by project conditions and approved by panel manufacturer.
- D. Gaskets:
 - 1. Manufacturer's standard type suitable for use with system, permanently resilient; ultraviolet and ozone resistant.
- E. Profiled Rib Closures:
 - 1. Provide prefabricated, factory pre-notched closures to match the panel profile close fitting components .032 Aluminum in the same color and finish as the panel system.
- F. Sealants:
 - 1. Exposed Sealant:
 - a. High performance Elastomeric; clear tri-polymer, as recommended by manufacturer.
 - 2. Concealed Sealant:
 - a. high Performance Space Cubes to prevent bottoming out of sealant when fasteners are installed non-curing butyl type.
 - 3. Seam Sealant:
 - a. Factory Applied High Performance, high solid, non-skinning, non-drying formulated for roll forming application into concealed panel joints.
- G. Fasteners: Provide as recommended by panel manufacturer suitable for application meeting the following characteristics.
 - 1. Self-tapping and Self-drilling for metal to metal.
 - 2. Carbon Steel thread with organic long-life coating.

- H. Internal and External Corners:
 - 1. Same material, thickness, and finish as exterior sheets; profile to suit system; shop cut, and factory mitered to required angles.
- I. Penetration Covers (Z Boxes) to be supplied by panel manufacturer, factory fabricated in same gauge and finish as metal panels.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that building framing members are ready to receive panels.
- B. Verify water-resistive barrier (WRB) has been properly installed over substrate.

3.02 PREPARATION

- A. Install subgirts perpendicular to panel length, securely fastened to substrates and shimmed and leveled to uniform plane, and spaced at intervals indicated.
- B. Protect surrounding areas and adjacent surfaces from damage during execution of this work.

3.03 INSTALLATION

- A. Install panels on walls in accordance with manufacturer's instructions and approved shop drawings.
- B. Protect surfaces in contact with cementitious materials and dissimilar metals with bituminous paint; allow time to properly dry prior to wall panel installation.
- C. Provide expansion and control joints where indicated.
- D. Use concealed fasteners unless otherwise indicated by Architect.

3.04 TOLERANCES

- A. Offset From True Alignment Between Adjacent Members Abutting or In Line: 1/16 inch (1.6 mm), maximum.
- B. Variation from Plane or Location As Indicated on Drawings: 1/4 inch (6.4 mm), maximum.

3.05 CLEANING

- A. See Section 017000 - Execution and Closeout Requirements for additional requirements.
- B. Remove site cuttings from finish surfaces.
- C. Remove protective material from wall panel surfaces.
- D. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.
- E. Upon completion of installation, thoroughly clean prefinished aluminum surfaces in accordance with AAMA 609 & 610.

3.06 PROTECTION

- A. Protect metal wall panels until completion of project.
- B. Touch-up, repair, or replace damaged wall panels or accessories before Date of Substantial Completion.

END OF SECTION