

**ARCH 478  
OFFICE BUILDING**

**SECTION 07410**

**METAL WALL PANELS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. *Manufactured metal panels for walls, with related flashings.*

**1.02 RELATED SECTIONS**

- A. *Section 07900 - Joint Sealers.*

**1.03 REFERENCES**

- A. *ASTM A 792/A 792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process; 1999.*
- B. *ASTM D 226 - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 1997a.*

**1.04 DESIGN REQUIREMENTS**

- A. *Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.*

**1.05 SUBMITTALS**

- A. *Shop Drawings: Indicate dimensions, layout, joints, construction details, methods of anchorage.*
- B. *Samples: Submit two samples of wall panel, 4 inch by 6 inch in size illustrating finish color, sheen, and texture.*

**1.06 QUALITY ASSURANCE**

- A. *Manufacturer: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.*
- B. *Installer: Company specializing in performing the work of this section approved by manufacturer.*

**1.07 DELIVERY, STORAGE, AND PROTECTION**

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

**1.08 PROJECT CONDITIONS**

- A. *Coordinate the Work for installation of vapor retarder and air barrier seals.*
- B. *Coordinate the Work with installation of window and roof edge flashing components or materials.*

**1.09 WARRANTY**

- A. *See Section 01780 - Closeout Submittals, for additional warranty requirements.*
- B. *Correct defective Work within a two year period after Substantial Completion, including defects in water tightness and integrity of seals.*

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

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- A. *IMSA Steel Building Products; Product HR-36 metal wall panels.*
- B. *Substitutions: See Section 01600 - Product Requirements.*

**2.02 MATERIALS**

- A. *Precoated Steel Sheet: Aluminum-zinc alloy-coated steel sheet, ASTM A 792/A 792M, Commercial Steel (CS) or Forming Steel (FS), with AZ50/AZM150 coating; continuous-coil-coated on exposed surfaces with specified finish coating and on panel back with specified panel back coating.*

**2.03 ACCESSORIES**

- A. *Gaskets: Manufacturer's standard type suitable for use with system, permanently resilient; ultraviolet and ozone resistant.*
- B. *Sealants: Specified in Section 07900. Manufacturer's standard type suitable for use with installation of system; non-staining; color as selected.*
- C. *Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, steel, hot dip galvanized. Fastener cap same color as exterior panel.*
- D. *Field Touch-up Paint: As recommended by panel manufacturer.*
- E. *Bituminous Paint: Asphalt base.*
- F. *Building Paper: ASTM D 226, Type I ("No. 15"), unperforated asphalt felt.*

**2.04 FABRICATION**

- A. *Form sections true to shape, accurate in size, square, and free from distortion or defects.*
- B. *Form pieces in longest practicable lengths.*
- C. *Form panels for interlocking seams.*

**PART 3 EXECUTION**

**3.01 EXAMINATION**

- A. *Verify that framing members are ready to receive panels.*

**3.02 PREPARATION**

- A. *Install 1 layer building paper horizontally on walls to receive panels.*
- B. *Weather lap edges 6 inches and ends minimum 6 inches, minimum.*
- C. *Stagger vertical joints of each layer.*
- D. *Securely staple in place.*

**3.03 INSTALLATION**

- A. *Install panels on walls in accordance with manufacturer's instructions.*
- B. *Protect surfaces in contact with cementitious materials and dissimilar metals with bituminous paint. Allow to dry prior to installation.*
- C. *Fasten panels to structural supports; aligned, level, and plumb.*
- D. *Locate joints over supports. Lap panel ends minimum 2 inches.*
- E. *Use concealed fasteners unless otherwise approved by Architect/Owner.*
- F. *Seal and place gaskets to prevent weather penetration. Maintain neat appearance.*

**3.04 TOLERANCES**

- A. *Maximum Offset From True Alignment Between Adjacent Members Butting or In Line: 1/16 inch.*

**3.05 CLEANING**

- A. *Remove site cuttings from finish surfaces.*
- B. *Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.*

**END OF SECTION**