

# ALPRO® ACOUSTICAL SYSTEMS WALL PANEL SYSTEM FOR INDUSTRIAL APPLICATIONS

## SECTION 09 80 00

### PART 1 – GENERAL

#### 1.01 SECTION INCLUDES:

- A. This section includes ALPRO® Metal Wall Panels as shown on the Architectural Drawings.
- B. Related sections include the following: (List applicable sections)

#### 1.02 RELATED DOCUMENTS/SECTIONS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions.
- B. Division 1 Specification sections apply to work of this Section.
- C. Finish Schedule or Finish Legend applies to work of this Section.

#### 1.03 REFERENCES:

- A. GENERAL
  - 1. Comply with applicable requirements of the following, except where more stringent requirements are indicated by building codes.
- B. ASTM (American Society for Testing and Materials)
  - 1. ASTM C634: Definition of Terms Relative to Environmental Acoustics.

#### 1.04 DESIGN/PERFORMANCE REQUIREMENTS:

- A. All components of the ALPRO® Wall Panel System shall be provided by one (1) Manufacturer to ensure single source responsibility and quality control.

#### 1.05 SUBMITTALS:

- A. Submission must be made within ten (10) working days of the General Contract Award to avoid project delay.
- B. Product Data: Submit Manufacturer's technical data and brochures for specified system.
- C. Shop Drawings: Submit Shop Drawings for fabrication and installation of ALPRO® Wall Panel System including the following:
  - 1. Location of ALPRO® Wall Panel System
  - 2. Panel metal type and thickness
  - 3. Panel corrugation pattern
  - 4. Perforated or non-perforated
  - 5. Dimensions
  - 6. Sizes
  - 7. Finishes

- D. Samples:
  - 1. Submit three (3) samples consisting of 12" long Z Furring and J Trim along with 12" x 12" corrugated Panel.
- E. Product Test Reports:
  - 1. All products furnished shall have a flame spread classification of 0-25 for a Class A or Class 1 rating in accordance with ASTM E84.
  - 2. All products furnished shall be tested in accordance with ASTM C-423 for Sound Absorption. Tested NRC (Noise Reduction Coefficient) shall be no less than 0.85.
- F. Closeout Submittals
  - 1. Provide Manufacturer's Cleaning and Maintenance Instructions
  - 2. Warranty Documents

**1.06 QUALITY ASSURANCE:**

- A. Manufacturers' Qualifications: Firm with manufacturing and delivery capacity required for the project, shall have successfully completed at least ten (10) projects within the past five (5) years, utilizing systems, materials, and techniques as herein specified.
- B. Fabricator must own and operate its own manufacturing facilities for all metal components. Systems consisting of components from a variety of Manufacturers will not be considered or accepted.
- C. Manufacturer/Fabricator must own and operate its own painting and finishing facility to assure single source responsibility and quality control.
- D. Installer's Qualifications: Firm with not less than three (3) years of successful experience in the installation of systems similar to those required by this project and acceptable to the Manufacturer of the System.
- E. Testing Agency Qualifications: An independent testing agency, acceptable to authorities having jurisdiction, with the experience and capability to conduct testing indicated, as documented according to ASTM E 548.

**1.07 PRODUCT DELIVERY, STORAGE AND HANDLING:**

- A. Deliver Panels and all system hardware to the job site in Manufacturer's original packaging, unopened and undamaged, just prior to installation.
- B. Avoid warpage and damage by storing Panels and all system hardware above floor, flat and in a dry, humidity and temperature controlled interior location.
- C. Follow Manufacturer's instructions and exercise care during off loading, handling and installation to avoid damage and marring of finishes.

**1.08 SEQUENCING:**

- A. Substitute Products: Alternate proposals for substitute products will not be accepted unless approval is issued in addenda.
- B. Contract Execution: Submittals shall be completed and approved prior to award of subcontract for system components.
- C. Manufacturer's Production Schedule: Subcontract for the work of this section shall be planned to allow sufficient time for Manufacturer's production and delivery scheduling.

**1.09 WARRANTY:**

- A. Furnish Manufacturer's:

1. Warranty that materials furnished will perform as specified for a period of not less than one (1) year from material shipment when installed in accordance with Manufacturer's recommendations.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS:**

- A. Acceptable System: ALPRO® Wall Panel System shall be manufactured by Gordon, Inc. For all inquiries contact, Gordon, Inc., 5023 Hazel Jones Road, Bossier City, LA 71111, (888) 733-3836 or (800) 747-8954.
- B. The listed Manufacturer shall not be construed as closing specifications to other prospective Manufacturers, but rather as establishing a level of quality in a metal system. Other systems may be submitted for approval, as provided for in the specifications at least ten (10) working days prior to submission of bids. Companies desiring to submit a proposal shall submit all descriptive information of the system proposed including photographs and Shop Drawings of at least three (3) projects similar in detail and scope.

### **2.02 PRODUCT CONSTRUCTION:**

- A. ALPRO® Wall Panel System shall be manufactured of aluminum or steel components. All Panels, J Trim Perimeter, Corner Angles, and Z Furring, including Acoustical Components shall be provided as a complete package of this work.
- B. Materials:
  1. Mounting Accessories:
    - a. Brake formed aluminum or brake formed steel as manufactured by ALPRO®, Division of Gordon, Inc. Accessories shall include Z Furring, J Trim, and inside/outside Corner Angles in a size and length to completely support and finish/trim the Wall Panels as shown in elevations. All mounting accessories shall be finished to match corrugated ALPRO® Wall Panels.
    - b. General: Provide metals free from surface blemishes where exposed to view in finished unit. Surfaces that exhibit pitting, seam marks, roller marks, stains, and discolorations, or other imperfections on finished units are not acceptable. All metal shall be of the highest-grade commercial type.
  2. Metal Panels:
    - a. For aluminum Panels, aluminum sheet shall be 3003-H14 alloy, minimum 0.032" (ASTM B209). Panels may be stucco-embossed or smooth aluminum.
    - b. For steel Panels, steel sheet shall be 22, 24, or 26 Gauge galvaneal.
    - c. The metal acoustical Ceiling Panels shall be corrugated using ALPRO® pattern type [Select: C, F, or J].

- d. For perforated Panels, patterns to be 1/8" diameter holes on 2 1/64" staggered centers, approximately 13% open area.
- 3. Sound Absorption Material:
  - a. Provide fiberglass 2" thickness X 2 # density. The fiberglass Panel shall be wrapped in Class A, per ASTM E84, Black PVC.

### **2.03 FINISHES:**

- A. All ALPRO® Panels and accessories shall receive a multi-stage pretreatment prior to receiving an electrostatically applied, AAMA 2604 powder coating finish.
- B. All cut edges, including perforated holes, must be coated. Finish shall be oven baked to ensure paint adhesion and uniform surface hardness.
- C. Paint color to be selected from ALPRO® Standard Colors.

### **2.04 FABRICATION:**

- A. Provide all necessary mounting accessories for Wall Panel System.
- B. Provide stock-sized Panel to be field cut.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION:**

- A. Examination of Surfaces: Examine building structure scheduled to receive Wall Panel System for unevenness or irregularities that would affect quality and execution of work.
- B. Tolerances: Install Wall Panel System with a maximum surface deviation of 1/8" in 4'-0" (No load applied).

### **3.02 PREPARATION:**

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the Manufacturer to achieve the best result for the project conditions.

### **3.03 INSTALLATION:**

- A. General: Comply with Manufacturer's printed instructions, governing regulations for Seismic Codes, and the Ceiling & Interior Systems Construction Association Standards applicable to work.
- B. Space Enclosure: Do not install any work until space is enclosed and weatherproofed, wet-work in space is completed and nominally dry, work above ceilings is complete, and temperature and humidity shall be continuously maintained at values near those of final occupancy.

### **3.04 CLEANING:**

- A. Follow Manufacturer's cleaning instructions for specified finish.

### **3.05 PROTECTION:**

- A. Procedures: Care should be taken during the remainder of construction to protect ALPRO® Wall Panel System from damage.
- B. Damage to Finished Work: Finished units shall be without damage. Damage shall be repaired by the Contractor at the expense of the party damaging the material, as in accordance with the contract requirements.

**END OF SECTION**