

ALPRO® GUIDELINE SPECIFICATIONS

ALPRO® ACOUSTICAL SYSTEMS CEILING PANEL SYSTEMS

Note to Specifier: ALPRO® Systems are a finished decorative/functional product and should be specified per The Construction Specifications Institute's format in the following Divisions. All Division numbers listed within this document refer to the CSI format: 09510 - Acoustical Ceilings, 09547 - Metal Ceiling, or 09800 - Acoustical Treatments

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections apply to this Section.

1.2 SUMMARY

- A. This section includes Metal Ceiling Panels as shown on the architectural drawings.
- B. Related Sections include the Following: (list applicable sections)

1.3 SUBMITTALS

- A. Manufacturer's Literature and Data:

- 1. Product Data: Submit manufacturer's technical data and brochures specified system.

- B. Shop Drawings:

- 1. Shop drawings shall show dimensions, sizes, thickness, finishes, joining, mounting attachments, and relationship to adjoining work.

- C. Samples:

- 1. Samples shall include a minimum 12" X 12" nominal piece of each type of metal, finished as specified, and accessories.

- D. Certification:

- 1. Submit certification from manufacturer of ceiling panels attesting that products comply with specified requirements including finish as specified.

- E. Qualification Data:

- 1. Firms specified in "Quality Assurance" Article must demonstrate their capabilities and experience by including lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

- F. 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-423-90 for Sound Absorption. Test results for a Type E-400 ceiling mounting method shall yield an NRC (Noise Reduction Coefficient) of no less than 1.0.

- G. Maintenance Data:

1. Provide maintenance instructions for acoustical panels to be included in maintenance manuals as specified in Division 1.

H. Warranty:

1. Provide product warranty for one year from date of substantial project completion.

1.4 QUALITY ASSURANCE

- A. Manufacturer: Firm with manufacturing and delivery capacity required for the project, shall have successfully completed at least ten projects within the past five 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. 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.

1.5 DELIVERY, STORAGE & HANDLING

- A. All materials shall be protected during fabrication, shipment, site storage and erection to prevent damage to the finished work from other trades. Store acoustical panels inside a well-ventilated area, away from uncured concrete and masonry, and protected from the weather, moisture, soiling, abrasion, extreme temperatures, and humidity.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. ALPRO[®] Systems shall be manufactured by ALPRO[®] Acoustical Systems, Division of Gordon, Inc., P.O. Box 4347, Shreveport La 71134, (888) 733-3836, FAX (800) 877-8746; as represented by Shannon Corporation, MA; www.shannoncorporation.com. No substitutions.

2.2 SYSTEM DESCRIPTION

- A. Ceiling System shall be ALPRO[®] Acoustical Systems. All panels, perimeter trims and suspension components including acoustical component shall be provided as a complete package of this work.

2.3 MATERIALS

A. Suspension System

1. Extruded aluminum as manufactured by ALPRO[®], Division of Gordon, Inc. shall consist of main tees, cross tees, perimeter angle, perimeter trim, and any necessary clips and splices required for a complete system as required to meet local building codes.
2. Deflection of grid shall be limited to L/360 of the span when full dead load is applied. (ASTM C 635)
3. Aluminum Extrusions shall be 6063-T6 alloy. (ASTM B 221, ASTM B 221 M)
4. 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.

5. Grid shall be [Alpro[®] HA3434 reveal tee with Alpro[®] WA375 reveal wall angle] or [direct mount to concealed suspension].

B. Metal Panels

1. Aluminum panels shall be 3003-H14 alloy, minimum [.020] or [.032] , (ASTM B 209).
2. Steel panels shall be: {22] or [24] or [26] gauge G-90 Galvanized steel.
3. The metal acoustical Ceiling Panels shall be corrugated using ALPRO[®] Pattern Type [insert profile [A, B, C, D, E, F, H, J] and [perforated with 1/8" diameter holes on 21/64" staggered centers, approximately 13% open area] or [non-perforated].
4. The panels shall be fabricated of [stucco-embossed] or [smooth aluminum] in sizes and shapes as shown in drawings.
5. Sound Absorption Material:
 - a. Provide fiberglass 2" thickness X 1.5#. The fiberglass panel shall be wrapped in Class A, per ASTM E84, Black Polyethylene.

2.4 FINISHES

A. Powder Coat Finish –

1. All ALPRO[®] Panels & Accessories shall receive a micro-etched pretreatment prior to receiving an electrostatically applied powder coat paint finish.
2. All cut edges, including perforated holes must be coated. Finish shall be cured and oven baked to insure paint adhesion and uniform surface hardness.
3. Paint Color to be selected from ALPRO[®] [Standard non-metallic Colors] or [metallic finish, color, _____].
4. Panels and grid will be from a single source manufacturer to ensure that finishes match in color and gloss.

PART 3 EXECUTION

3.1 INSPECTION

- A. Examine building structure scheduled to receive ceiling system for unevenness or irregularities that would affect quality and execution of work.
- B. Tolerances:
 1. Install ceiling system with maximum permissible deflection of L/360 of span maximum surface deviation of 1/8" in 4'-0" (No load applied) ASTM 635-92.

3.2 INSTALLATION

- A. General: Comply with manufacturer's printed instructions, governing regulations for Seismic Codes, and with 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 is continuously maintained at values near those of final occupancy.

3.3 CLEANING

- A. Clean all surfaces following installation.

- B. Replace material having scratches, abrasions, or other defects, with unblemished panels, or suspension.
- C. Maintenance per manufacturer's finish maintenance instructions.

3.4 PROTECTION

- A. Protection of ALPRO® Acoustical Systems from damage by other trades after installation to be provided by general contractor.

3.5 GENERAL RESPONSIBILITY

- A. Variation from specification: Any variation from this specification resulting in additional cost to any other contractor or subcontractor on this project shall be the sole financial responsibility of the contractor for the work of this section.

END OF SECTION