

Guideline Specifications

ALPRO[®] AVIAR METAL ACOUSTICAL CEILING SYSTEM

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

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including general conditions, supplementary conditions and Division-1 General requirements, apply to work of this section.

1.2 SYSTEM DESCRIPTION

- A. The ALPRO AVIAR ceiling system can be provided as an undulating convex or concave vault, curved to virtually any radius and provided in any overall length or width. The system consists of pre-curved and pre-finished extruded aluminum main tees, concave or convex or concave and convex to form an undulating ceiling or gradual smooth flowing curves. Infill panels as specified are face attached for a continuous corrugated vault. The entire system may be trimmed with ALPRO Perimeter Trim, an extruded aluminum suspended perimeter trim or other perimeter trims as specified, which provides an edge detail.

1.3 QUALITY ASSURANCE

- A. Manufacturer: Furnish components from one (1) manufacturer with a minimum of ten (10) years of experience in the fabrication of extruded aluminum ceiling specialties.
- B. Installer: 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 manufacturer of the system.

1.4 REFERENCES

- A. ASTM C635, Standard Specifications for Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.
- B. ASTM C636, Recommended Practice for Installation of Metal Suspension System for Acoustical Tile and Lay-In Panels.
- C. CISCA Ceiling Systems Installation Handbook.

1.5 SUBMITTALS

- A. Product Data: Submit manufacturer's ALPRO[®] AVIAR Ceiling System product specifications, detail drawings and installation instructions for each component required.
- B. Submission: Must be made within ten (10) working days of the General Contract Award to avoid project delay. Of not adhered to, architect will designate exact product to be used and the contractor will have no recourse.

- C. Samples: Submit three (3) samples consisting of curved members with panels and hold down clips attached or with panels face attached with screws.
- D. Shop Drawings: To include location of the ALPRO[®] AVIAR Ceiling System as well as specified radii, panel type, finish, tolerances, and panel size.

1.6 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: Sub-contract for the work of this section shall be planned to allow sufficient time for manufacturer's production and delivery scheduling.

1.7 WARRANTY

- A. General: Submit manufacturer's warranty that materials furnished will perform as specified for a period of not less than one (1) year when installed in accordance with manufacturer's recommendations.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURER

- A. ALPRO AVIAR Ceiling System shall be manufactured by ALPRO Acoustical Systems, a division of Gordon, Inc. P.O. Box 4347, Shreveport, LA 71134, (888) 733-3836, Fax (800) 877-8746.
- 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 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 projects similar in detail and scope.

2.2 PRODUCT CONSTRUCTION

- A. ALPRO AVIAR Ceiling System shall be manufactured of aluminum components. Suspension and perimeter trim components (if required) shall be extruded aluminum of standard 6063 T-5 aluminum alloy, curved to specified radii.

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,

A. Metal Panels

1. Aluminum sheet shall be 3003-H14 alloy, minimum .032", (ASTM B 209).
2. The metal acoustical Ceiling Panels shall be corrugated using ALPRO⁰ Pattern Type [**select:** A-I, A-O, B, C, D, E-I, E-O, F] and perforated with 1/8" diameter holes on 21/64" staggered centers, approximately 13% open area.
3. The panels shall be fabricated of [**select:** stucco-embossed, smooth] aluminum.
4. Sound Absorption Material: Provide fiberglass 1" thickness X 1.5 # density. The fiberglass panel shall be wrapped in Class A, per ASTM E84, Black Polyethylene.

2.4 FINISHES

A. Powder Coat Finish – (Interior use only)

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 approved custom color.

2.5 FABRICATION

- A. Provide factory curved main tees to specified radius, which is not smaller than 24".
- B. Pre-cut specified panel to lay into specified module.
- C. Provide splice clips as necessary to connect main tees. Provide two-way clips to attach cross tees.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examination of surfaces: Installer must examine conditions under which work is to be performed and must notify contractor in writing of unsatisfactory conditions.
- B. Verify that field measurements and block-out dimensions are as shown on shop drawings.

3.2 INSTALLATION

- A. General: Comply with manufacturer's printed instructions, with 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 shall be continuously maintained at values near those of final occupancy.

3.3 CLEANING

- A. Cleaning of factory-finished parts, if necessary, should be accomplished with a detergent solution such as TSP-90 or Ivory.

3.4 PROTECTION

- A. Procedures: Care should be taken during the remainder of construction to protect AVIAR ceilings 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.

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.