

GORDON, INC. *TURN-KEY*[™] CEILING SYSTEMS

SECTION 09 54 00

PART 1 – GENERAL

1.01 SECTION INCLUDES:

- A. This section includes *TURN-Key*[™] 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 C635, Standard Specifications for Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.
 - 2. ASTM C636, Recommended Practice for Installation of Metal Suspension System for Acoustical Tile and Lay-In Panels.
- C. CISCA Ceiling Systems Installation Handbook.

1.04 DESIGN/PERFORMANCE REQUIREMENTS:

- A. All components of the *TURN-Key*[™] Ceiling 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 of the specified system.
- C. Shop Drawings shall show dimensions, sizes, thickness, finishes, joining, mounting attachments, and relationship of adjoining work.
- D. Samples:
 - 1. Submit three (3) samples consisting of a minimum 8" long nominal piece X the module width of each type of metal Panel, finished as specified, and accessories.
- E. Certification: Submit certification from Manufacturer of Ceiling Panels attesting that products comply with specified requirements including finish as specified.

F. 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.

G. 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.

1.06 QUALITY ASSURANCE:

- A. Manufacturer: Furnish components from one (1) Manufacturer with a minimum of ten (10) years of experience in the fabrication of metal ceiling specialties, utilizing systems, materials, and techniques as herein specified.
- 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.
- C. 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.
- D. Manufacturer/Fabricator must own and operate its own Painting and Finishing facility to assure single source responsibility and quality control.
- 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. All materials shall be protected during fabrication, shipment, site storage, and erection to prevent damage from other trades. Store *TURN-Key™* Ceiling System and components inside a well-ventilated area, away from uncured concrete and masonry, and protected from the weather, moisture, soiling, abrasion, extreme temperatures, and humidity.

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: Sub-contract 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 date of material shipment when installed in accordance with Manufacturer's recommendations.

PART 2 - PRODUCTS

2.01 MANUFACTURERS:

- A. Acceptable System: *TURN-Key*™ Ceiling Systems shall be manufactured by Gordon, Inc. For all inquiries contact, Gordon, Inc., 5023 Hazel Jones Road, Bossier City, LA 71111, (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. Ceiling System shall be *TURN-Key*™ Ceiling Systems. All Panels, Perimeter Trims, and Suspension Components, including acoustical component, shall be provided as a complete package of this work. Gordon, Inc. has many suspension and trim options of which to choose from.
- B. Materials: Metal Panels:
 - 1. Aluminum sheet shall be 3003-H14 alloy, minimum 0.040" recommended (ASTM B 209).
 - 2. Panels are ____ widths x ____ lengths, non-perforated or perforated, and formed edges with tab and slot connection.
 - a. Standard Perforation – Panels will be with 1/16" diameter holes on 5/32" diagonal centers, approximately 12% open area and perforated on the face with a 3/8" non-perforated nominal border.
OR
 - b. Custom Perforation – Please contact Gordon, Inc. for custom perforation patterns.
 - 3. The Panels shall be fabricated of smooth aluminum.
 - 4. Optional Sound Absorption Material:
 - a. Provide Non-Woven Acoustical Fabric to the back side of Panels (NRC: 0.75). OR
 - b. Provide fiberglass (1" or 2" or other thickness) X (1.5 #, 2 #, or other density). The fiberglass Panel shall be wrapped in Class A, per ASTM E84, (Black Polyvinylchloride) or (Black Polyethylene). NRC Range: 0.80 to 1.0.
 - 5. Suspension – To be determined.
- C. Accessories:
 - 1. Contura Perimeter Trim, J Trim, and internal Splices required for a complete system as necessary.
 - 2. Furring channels and screws are to be provided by others.

- D. 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.

2.03 FINISHES:

- A. Paint Finishes
 - 1. *TURN-Key*[™] Panels shall receive 5-stage pretreatment with dried-in-place conversion coating prior to receiving an electrostatically applied AAMA 2604 or AAMA 2605 compliant powder coating finish.
 - 2. All cut edges, including perforated holes, must be coated. Finish shall oven baked to ensure complete curing, paint adhesion, and uniform surface hardness.
 - 3. Paint color to be selected from Gordon, Inc.'s list of Standard Colors (Custom Colors also available).
- B. Panels may have a factory-applied wood-look finish:
 - 1. Laminated Wood-Look Films – Series 1
 - 2. Laminated Wood-Look Films – Series 2
 - 3. Wood-Look Paints

2.04 FABRICATION:

- A. Provide *TURN-Key*[™] Ceiling System in specified dimensions.

PART 3 - EXECUTION

3.01 EXAMINATION:

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

3.02 PREPARATION:

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the Manufacturer to achieving 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: Protection of *TURN-Key*[™] Ceiling Systems from damage by other trades after installation to be provided by General Contractor.
- 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