

# GORDON ENVIRONMENTAL GRID SYSTEMS

## SECTION 09 53 00

### **PART 1 – GENERAL**

#### **1.01 SECTION INCLUDES:**

- A. This section includes Environmental Grid System and Perimeter as shown on the 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 apply 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.

#### **1.04 DESIGN/PERFORMANCE REQUIREMENTS:**

- A. All components of the Gordon, Inc. Extruded Aluminum Environmental Grid 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 each type of Grid System required.
- C. Shop Drawings shall show dimensions, sizes, thickness, perimeter details, finishes, joining, attachments, and relationship of adjoining work, as well as Reflected Ceiling Plans.
- D. Samples:
  - 1. Submit three (3) samples consisting of 12" pieces of each type of Suspension and finish as specified, including Perimeter Molding and accessories.
- E. Certification:
  - 1. Submit certificates from Manufacturer of Grid System 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.

**1.06 QUALITY ASSURANCE:**

- A. Manufacturer: 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. "Stick Built" or "Kit of Parts 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.

**1.07 PRODUCT DELIVERY, STORAGE AND 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 accessories 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: Gordon, Inc. Environmental Grid System 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. Materials:**

#### **1. Extruded Suspension System:**

- a. Extruded Suspension System as manufactured by Gordon, Inc. shall consist of Main Tees (list profile and number), Cross Tees (list profile and number), Perimeter Wall Angle (list profile and number), and all necessary Clips and Splices required for a complete System as required to meet local building codes.
- b. Deflection of Grid shall be limited to  $L/360$  of span ( $1/8''$  maximum) when full dead load is applied.
- c. Aluminum extrusion shall be 6063-T6 alloys. (ASTM B221, ASTM B 221M).
- d. Provide metals free from surface blemishes where exposed to view in finished unit. Surfaces that exhibit pitting, seam marks, roller marks, stains, discolorations, or other imperfection on finished units are not acceptable. All metal shall be of the highest-grade commercial type.

#### **2. System Description:**

- a. The Ceiling Suspension System shall be (choose System: Environmental Grid System or Series A, B, C, or D Suspension System).
- b. Wall Angle shall be \_\_\_\_\_ in a matching finish.
- c. All components shall be extruded aluminum, meeting all loading data. No roll formed aluminum Grid will be allowed.

## **2.03 FINISHES:**

- ### **A. Factory finishing is to be supplied to match Custom Color and gloss specifications or Standard Colors as required. Factory finish is a 5-stage pretreatment with dried-in-place conversion coating followed by an AAMA 2604 compliant powder coating. Alternate finishes shall be chosen from the Manufacturer's standard paint finish selection (Custom Colors or other types of paint are available) including:**

1. Powder Coating – AAMA 2605 compliant

## **2.04 FABRICATION:**

- A. The Suspension Module will be (Specify size, i.e. 2'x2').
- B. All intersections between Main Tees and Cross Tees shall be (cross routed, butt cut, or mitered).
- C. Perimeter shall be fabricated to match the System described in Paragraph 2.2.
- D. All components including accessories are available to meet codes such as seismic and loads such as light fixtures and air diffusers. For seismic, specify Clip System.

- E. Hanger Wires (furnished by the Ceiling Contractor) shall be #12 Gauge galvanized without kinks and splices.

### **PART 3 - EXECUTION**

#### **3.01 EXAMINATION:**

- A. Examine building structure scheduled to receive Environmental Grid System for unevenness or irregularities that would affect quality and execution of work. Notify Contractor in writing of any unsatisfactory conditions.
- B. Tolerances: Install Environmental Grid System with maximum permissible deflection of  $L/360$  of span with maximum surface deviation of  $1/8''$  in  $10'-0''$  (no load applied) ASTM 635-92.
- C. Verify that Environmental Grid System parts coordinate with bill of materials on Shop Drawings.

#### **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. Protection of Environmental Grid System from damage by other trades after installation to be provided by General Contractor.

### **END OF SECTION**