

AcoustiCel™ SECURITY WALL SYSTEM

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PART 1 – GENERAL

1.01 SECTION INCLUDES:

- A. This section includes AcoustiCel™ Security Wall System as shown on the Drawings.

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.
- B. ASTM (American Society for Testing and Materials)
 - 1. B209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate
 - 2. ASTM A366/A366M Standard Specification of Commercial Steel (CS) Sheet, Carbon (0.15 Maximum Percent) Cold-Rolled
 - 3. ASTM A666 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate and Flat Bar
 - 4. ASTM A240/A240M Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
 - 5. E84 Standard Test Method for Surface Burning Characteristics of Building Materials

1.04 DESIGN/PERFORMANCE REQUIREMENTS:

- A. All components of the AcoustiCel™ Security Wall 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 specified system required.
 - 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 A mounting method shall yield an NRC (Noise Reduction Coefficient) of no less than 0.80.
- C. Shop Drawings shall show dimensions, sizes, thickness, alloys, finishes, joining, attachments, and relationship of adjoining work.
- D. Samples:
 1. Submit a minimum 12" X 12" nominal piece of each type of metal, finished as specified, and accessories.
- E. Certification:
 1. Submit letter of certification from Manufacturer of AcoustiCel™ Security Wall System attesting that product complies 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.
- 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.

1.07 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 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: AcoustiCel™ Security Wall 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. System Description:
 - 1. AcoustiCel™ Security Wall System including suspension components and acoustical components, shall be provided as a complete package of this work.
- B. Materials:
 - 1. Mounting Accessories
 - a. General: Provide metals free from surface blemishes where it is 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.
 - b. J-Mount Trim provided for bottom of Plank Panels are fabricated in the same metal and finish as the Plank Panels.
 - c. Z-Lock Trim provided for top of Plank Panels are fabricated in the same metal and finish as the Plank Panels.
 - d. End Caps provided for sides, where exposed, and are fabricated in the same metal and finish as the Plank Panels.
 - e. Security Fasteners to be finished to match Wall Panels and Trims.
 - 2. Metal AcoustiCel™ Panels
 - a. The Plank Panels shall be fabricated of smooth aluminum (.125"); OR galvanized steel (18, 16, 14, or 12 Gauge); OR #4 brushed stainless steel (18, 16, or 14 Gauge).
 - b. Plank Panel Sizes:
 - i. Lengths: Up to 144"
 - ii. Widths: 12", 18", or 24"
 - c. For Perforated Acoustical Panels, a Spacer Grid shall be installed between the Plank Panel and the Acoustical Media.
 - d. Perforation Pattern: 1/8" Diameter Holes on 11/32" Diagonal Centers, 11% Open Area (R18-1132DG11).
 - e. Acoustical Media:
 - i. Provide fiberglass 2" thick X 2 PCF density. The fiberglass panel shall be encapsulated in black PVC.
 - ii. Rated Class A, per ASTM E 84.

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 either:
 - 1. An AAMA 2604 (interior use only) compliant powder coating for aluminum or galvanized steel systems.
 - OR
 - 2. #4 brushed finish for stainless steel systems.

2.04 FABRICATION:

- A. AcoustiCel™ Security Wall System Planks are formed to the specified width (12", 18" or 24") and height (up to 144").

PART 3 - EXECUTION

3.01 EXAMINATION:

- A. Examine building structure scheduled to receive AcoustiCel™ Security Wall System for unevenness or irregularities that would affect quality and execution of work.

3.02 PREPARATION:

- A. 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 and governing regulations applicable to work.
- B. Tolerances: Install AcoustiCel™ Security Wall System with maximum permissible deviation from plumb, level, or line of 1/8" in 4'-0" (No load applied).

3.04 CLEANING:

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

3.05 PROTECTION:

- A. Protection of Gordon, Inc. systems from damage by other trades after installation to be provided by the General Contractor.

END OF SECTION