

# Section 098413

## Fixed Sound-Absorptive Panels

### Acoustical Wall Panels & Baffle Systems

#### 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 encapsulated wall panels and baffle systems shown on the drawing.
- 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 for each type of specified system required. All products furnished shall have a flame spread classification of 0-25 for a Class A rating in accordance with ASTM E-84.
- B. Shop Drawings:
  - 1. Shop drawings shall show dimensions, sizes, thickness, finishes, accessories, attachments, and mounting to adjoining work.
- C. Samples:
  - 1. Samples shall include 12" x 8" piece of each type of encapsulated material and covering as specified and accessories.

# Acoustical Wall Panel & Baffle Systems

- D. Certifications:
  - 1. Submit certification from manufacturer of wall panels and baffles 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 names and addresses, names and addresses of architects and owners, and other information specified.

## 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. Fabricator must own and operate its own manufacturing facilities for all components. Systems consisting of components from a variety of manufacturers will not be considered or accepted.
- B. Fabricator must own and operate its own manufacturing facilities for all components. Systems consisting of components from a variety of manufacturers will not be considered or accepted.

## 1.5 DELIVERY, STORAGE & HANDLING

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

# Acoustical Wall Panel & Baffle Systems

## PART 2 – Products

### 2.1 MANUFACTURER

A. Acoustical Wall Panels & Baffle Systems shall be manufactured by CMA | Gordon, 5023 Hazel Jones Rd., Bossier City, LA 71111 (318) 841-8159

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 3 projects in detail and scope.

### 2.2 SYSTEMS DESCRIPTION

A. Wall Panel & Baffle Systems shall be CMA | Gordon Acoustical Systems. All panels, trim and accessories shall be provided as a complete package of this work.

### 2.3 MATERIALS

A. Acoustical Systems: (choose one or both)

1. Baffle Systems
2. Wall Panels

B. Product size (2x2, 2x4, 4x4, 4x8, or non standard sizes and shapes)

C. Fiberglass Core Thickness (1", 1.5", 2")

D. Fiberglass Core Density (1.5# to 7#)

E. Mounting Accessories (for Baffle Application) includes, Cable Crimp Sleeves, Turnbuckles, Wire Hanger Clips, Beam Clamps, 7x7 Aircraft Cable, and Nylon Tie Wrap.

# Acoustical Wall Panel & Baffle Systems

## F. Acoustical Qualities

1. Finished Acoustical Wall Panels as specified shall provide a NRC (Noise Reduction Coefficient) of 0.65 to 1.15. Baffle Products shall provide an acoustical performance of 12.37 Sabins/baffle at 500 Hz for standard 2' 4' baffle.

2. All material furnished shall be tested in accord with ASTM C-423 for Sound Absorption. Test results shall be furnished for mounting selected.

## 2.4 ENCAPSULATED FACINGS

- A. All facings furnished with acoustical cores shall be rated non-combustible, class A in accordance with ASTM E-84.
- B. Facing shall be: (choose one or more):
  1. Polyvinyl Chloride (PVC), 4.0 mil.
  2. Polyvinyl Fluoride (PVF) Dupont Tedlar, Cleanroom, interior or exterior application – black or white only.
  3. Sailcloth Ripstop Nylon, 3.5 – 4.0 mil
- C. Color: To be selected by Architect from standard range of product colors available.

## PART 3-EXECUTION

### 3.1 EXAMINATION

- A. Examine building structure to receive acoustical system for irregularities that would affect quality and execution of work.
- B. Tolerance:
  1. Install ceiling systems with maximum permissible deflection of L/360 of span maximum surface deviation of 1/8" in 4'-0" (no load applied) ASTM635-92.

# Acoustical Wall Panel & Baffle Systems

## 3.2 INSTALLATION

- A. General: Comply with manufacturer's printed instructions, governing regulations for Seismic Codes, and with the Ceiling Interior Systems Construction Assoc. (CISCA) standards applicable to work.
- B. Space Enclosure: Do not install any work until space is enclosed and weather proofed, 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.
- C. All work shall be performed at times as directed by the owner/general contractor, and in compliance with all local and OSHA safety regulations that may apply. All installers shall be full time employees of the installing contractor familiar and trained with all regulations and techniques to make sure a safely installed finished product.

## 3.3 CLEANING

- A. Clean all surfaces following installation.
- B. Replace units having tears, abrasions, or other defects, with unblemished panels, or suspension.
- C. Maintain per manufacturer's finish maintenance instructions.

## 3.4 PROTECTION

Protection of CMA | Gordon Acoustical Systems from damages by other trades after installation to be provided by general contractor.