

# Section 098436 Sound Absorbing Ceiling Units Acoustical Banner Systems

## PART 1- General

### 1.1 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Contract, Including General and Supplementary Conditions and Division Specification Sections apply to this Section.

### 1.2 SUMMARY

- A. This section includes encapsulated banner systems as 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.
- D. Certifications:
  - 1. Submit certification from manufacturer of banners 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.

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## 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. Installing Contractor: Firm experienced in the installation of systems similar in complexity to those required for this project: and meet the following:
  - 1. Experience with comparable scale projects.
  - 2. At the request of the Architect, the installer shall demonstrate that he has:
    - a. Adequate plant and equipment to complete the work.
    - b. Complete knowledge and compliance with OSHA for all installation techniques.
    - c. All installers shall be experience employees of installing contractor.
    - d. Adequate staff with commensurate technical experience.
    - e. Suitable financial status to meet the obligations of the work.

## 1.5 DELIVER, STORAGE & HANDLING

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

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## PART 2 – Products

### 2.1 MANUFACTURER

A. CMA Acoustical Banner 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 Banner Acoustical 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 DESCRIPTIONS

A. Banner Panels shall be CMA | Gordon Acoustical Systems. All panels, trims and accessories shall be provided as a complete package of this work.

### 2.3 MATERIALS

A. Acoustical Systems :( choose one or more)

1. Banner Systems
2. Baffle Systems
3. Wall Panels

B. Banner product size: 4' wide x up to 25' long as shown on reflected plans or approved shop drawings.

C. Fiberglass Core Thickness 2", 3" or 4".

D. Fiberglass Core Density \_# to 1.65#

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

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## F. Acoustical Qualities

1. Finished Acoustical Materials as specified shall provide a NRC (Noise Reduction Coefficient) of 0.95 to 1.30.

2. Acoustical Performance for 2" x 1.5# 4.0 mil perforated PVC one side shall be as follows for a minimum

125	250	500	1000	2000	4000	NRC
0.87	0.89	1.21	1.26	1.26	1.24	1.15

3. All material furnished shall be tested in accord with ASTM C-423 for Sound Absorption Test results shall be furnished for mounting selected (E-795 Mounting).

## 2.4 ENCAPSULATED FACINGS

A. All facings furnished with acoustical cores shall be rated non-combustible, class accordance with ASTM E-84.

B. Facing shall be: (choose one or more):

1. Polyvinyl Chloride (PVC), 4.0 mil, perforated one side with 0.045" diameter diagonal pattern, 113 holes per sq. inch, 18% open area.
2. Sailcloth Ripstop Nylon, 3.5-4.0 mil.

C. Color: To be selected by the Architect from standard range of product colors available.

D. Encapsulated material shall be for PVC completely heat sealed on all edges between back and face panel, or sewn if sailcloth is utilized, and as approved by the architect. Both encapsulated fabrics, face and back, shall be the same thickness and type of PVC or Sailcloth.

# Acoustical Banner Systems

## 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. Banners shall be furnished with a minimum of wrinkles consistent with approved samples submitted. Design attachments to support loads imposed with a safety factor of 3 to 1. Seismic bracing shall be installed where local codes require such installation. Banners are to be installed with perforated side facing down away from roof deck. Festoon Banners as required consistent with length and weight of individual Banner Panels and shop drawings.

### 3.2 INSTALLATION

A. General: Comply with manufacturer's printed instructions, governing regulations for Seismic Codes, and with the Ceiling Interior Systems Construction Association (CISCA) 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 ceiling 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 completely familiar and trained with all regulations and techniques to assure a safely installed finished product.

### 3.3 CLEANING

A. Clean all surfaces following installation

B. Replace units having tears, abrasion, 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.