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## **SECTION 098316**

### **ACOUSTICAL PLASTER CEILINGS**

Specification for Fellert Natural finish 1” system mechanically attached (to 16” o.c. Drywall Ceiling Grid)

**ASTM C423 Test Mounting Type E-400** (air gap behind)

#### **PART 1 – GENERAL**

Section includes interior acoustical plaster finish for ceilings and walls installed 10’ above standing floor level. This type of application is not recommended for curved designs.

##### **1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the contract, including general and supplementary conditions and Division 01 specification sections, apply to this section.

##### **1.02 WORK INCLUDED**

- A. This section includes:
  - 1. Field applied seamless acoustical finish as indicated on the drawings.
  - 2. Acoustical substrate board where called for on the drawings.
- B. Related Sections:
  - 1. Section 055000, Metal Fabrications; structural steel framing system components to support work of this section.
  - 2. Section 092900, Gypsum Board Assemblies; for gypsum board substrate.

### 1.03 SUBMITTALS

- A. Product Data: show manufacturer's installation recommendations.
- B. Samples for Verification: samples of finished products showing texture for approval.
- C. Product Test Reports:
  - 1. ASTM C423 Mounting Type A for NRC
  - 2. ASTM E84 for Flame Spread
  - 3. ASTM E1477 for Light Reflectance
  - 4. ASTM D3960 for VOC
  - 5. ASTM D3273/ASTM D3274 for Mold
  - 6. ASTM D6991 for Flexibility
  - 7. ASTM E761 for Compressive Strength
  - 8. ASTM E605 for Density
  - 9. California Section 01350 for IAQ

### 1.04 SYSTEM PERFORMANCE REQUIREMENTS

- A. Noise reductions Coefficient: NRC 0.60 as per ASTM C423–07a Test Mounting Type E-400. Test results with any air gap between the absorptive panels and test frame assembly are not permissible.
- B. Flame Spread shall be Class A with a flame spread and smoke development of less than 25 as per ASTM E84.
- C. Light Reflectance shall be 0.79 as per ASTM E1477.
- D. VOC content shall be zero as per ASTM D3960.
- E. Meets ASTM D3273/ASTM D3274 Mold specification requirements.
- F. Internal Stress rating shall be 2.4 as per ASTM D6991.
- G. Compressive Strength shall be 142 (psi) as per ASTM E761.
- H. Density shall be 1.84 (lbs/ft) as per ASTM E605.
- I. Meets California's Section 01350 IAQ emission requirements.

## 1.05 QUALITY ASSURANCE

- A. Installer Qualifications: engage an experience installer who has attended a training seminar by this manufacturer. Provide copy of certificate of training. New installers must have a Fellert North America authorized technical representative onsite to assist with the installation of the project mockup.
- B. Single Source Responsibility: provide only proprietary, factory formulated materials as produced or recommended by Fellert Ecooustic. Substitutes within the system are not permitted.

## 1.06 DELIVERY, STORAGE , AND HANDLING

- A. Deliver materials to project site in original, unopened packages, and store them in a fully enclosed space where they will be protected against damage from moisture and other harmful conditions. Protect materials from freezing.
- B. Inspect materials upon delivery and immediately report to architect damaged or defective goods.

## 1.07 PROJECT CONDITIONS

- A. Environmental Limitations: do not install the Fellert system until spaces are enclosed and weatherproof, wet-work in spaces is complete and dry, work above ceilings is complete, and ambient temperature is above 50 deg F. Ensure that the building is ventilated to assist with the drying process if the HVAC is not operational.

## 1.08 COORDINATION

- A. Coordinate layout and installation of Fellert system and others including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

## **PART 2 – PRODUCT INFORMATION**

### 2.01 MANUFACTURERS

Fellert Ecooustic as distributed by Fellert USA, Inc. 4629 South 136<sup>th</sup> Street, Omaha, NE 68137  
Tel: 402-896-2005 Fax: 402-895-7238 [www.fellertna.com](http://www.fellertna.com)

## 2.02 PRODUCTS

- A. Products: Fellert Ecooustic
- B. Design: [monolithic finish/custom design] as shown on the construction drawings.
- C. Finish: [Natural (textured)] to match architect's approved sample.

## 2.03 MATERIALS

- A. Fellert Ecooustic system: provide manufacturer's complete system of proprietary materials specifically formulated for compatibility, which may include:
  - 1. Fellert Plastic C Channel: used to finish the system to adjacent surfaces.
  - 2. Fellert Fiberglass Board: 1" 6lb density board sound absorbing fiberglass board.
  - 3. Fellert Aluminum Spring Washers: used to attach the fiberglass board to drywall grid.
  - 4. Fellert Primer: used to prime drywall were the fiberglass board is not being utilized, mesh tape, Plastic C Channel, and vinyl trims.
  - 5. Fellert Plaster: sound absorbing plaster that is made from cotton fiber and perlite. The baselayer and finish plasters are applied by spray machine and hand troweled. Total plaster dry thickness approx. 1/8". Each coat of plaster will take 2–5 days to dry depending on local climatic conditions.
    - i. Color [white or custom color]
    - ii. Finishes [Natural (textured)]
- B. Accessories and Tools: use manufacturer's recommended accessories and tools. This may include spray machine, zinc screws, self-adhesive mesh tape, sandpapers, paddles, and trowels.
- C. Water: clean, fresh, potable, and free of mineral or organic matter.

## **PART 3 – EXECUTION**

### 3.01 MOCKUP

- A. Construct a 10' x 10' mockup for client approval. All permanent fixtures such as lights, diffusers, speakers, etc. are to be included in the mockup. The mockup shall remain intact throughout the project. The mockup can be part of the finished surface. Actual installation of the Fellert system on the project shall not commence until mockup approval has been received.

### 3.02 EXAMINATION

- A. Verify the suitability of existing conditions before starting work. Do not begin work of this section until unsatisfactory conditions have been corrected.

### 3.03 PREPARATION

- A. Comply with manufacturer's written instruction for substrate preparation.
  - 1. Fellert Fiberglass Board and Fellert Plaster to 16" o.c. ceiling grid: ensure grid is evenly spaced and level.
- B. Protect adjacent surfaces.

### 3.04 INSTALLATION – for Natural finish

General: apply the Fellert system as per manufacturer's installation guide. Note that the Fellert system must terminate at the end of the substrate—no air gap is permissible.

Fellert Fiberglass Board and Fellert Plaster to drywall ceiling grid (16" o.c.):

- A. Secure Fellert Plastic C Channel to studwork.
- B. Secure Fellert Fiberglass Board to drywall ceiling grid substrate with Fellert Spring Washers and zinc coated screws.
- C. Apply self-adhesive mesh tape and Fellert Primer to the intersection of Fellert Plastic C Channel and Fellert Fiberglass Board, or any GWB rippers. Allow 24 hours to dry prior to Fellert Plaster application.
- D. Sand Fellert Fiberglass joints with vacuum sander to smooth off joints.
- E. Spray and trowel the first coat of Fellert Plaster (basecoat) and leave to dry (approx. 3–5 days)
- F. Lightly sand basecoat with a vacuum sander.
- G. Spray the final coat of Fellert Plaster (topcoat) to match approved mockup and leave to dry (approx. 1–2 days).

**END OF SECTION**