



SECTION 098316

ACOUSTICAL PLASTER CEILINGS

Specification for Fellert Ultra finish

PART 1 – GENERAL

Section includes interior acoustical plaster finish for ceilings and walls installed 10' above standing floor level.

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: ASTM E84 for Flame Spread, ASTM C423 for NRC, ASTM D3960 for VOC, and ASTM E1477 for Light Reflectance.

1.04 SYSTEM PERFORMANCE REQUIREMENTS

- A. Noise reductions Coefficients:
 - 1. Adhered to GWB substrate: NRC 0.65–0.75 as per ASTM C423–07a test mounting type A.
 - 2. Mechanically attached to ceiling grid: NRC 0.60 as per ASTM C423-07a test mounting type E-400. (Not recommended for curved designs.)
 - 3. Acoustical plaster only to GWB substrate: NRC 0.40 as per ASTM C423–07a test mounting type A.
- 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 0.80 as per ASTM E1477.
- D. Zero VOC as per ASTM D3960.
- E. 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.
- 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.
- 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 and humidity conditions are maintained at the levels indicated for project when occupied for its intended use.

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 136th Street, Omaha, NE 68137
Tel: 402-896-2005 Fax: 402-895-7238 www.fellertna.com

2.02 PRODUCTS

- A. Products: Fellert Ecooustic
- B. Design: [monolithic finish/custom design] as shown on the construction drawings.
- C. Finish: [Ultra] 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 Adhesive: cementitious adhesive used to attach the fiberglass board to drywall and other substrates.
 3. Fellert Fiberglass Board: 1" 6lb density board sound absorbing fiberglass board (1.5" available).
 4. Fellert Aluminum Spring Washers: used to attach the fiberglass board to drywall grid.
 5. Fellert Primer: used to prime drywall were the fiberglass board is not being utilized, mesh tape, Plastic C Channel, and vinyl trims.
 6. 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 [smooth]
- B. Accessories and Tools: use manufacturer's recommended accessories and tools. This may include spray machine, zinc screws, self-adhesive mesh tap, 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 of the acoustical plaster ceiling for architectural approval of finish texture. Mockup shall be installed, if possible, as part of the finished surface and shall remain intact throughout the project. Actual installation shall not commence until 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 a new drywall substrate: do not prime or fill/tape any joints or holes.
 - 2. Fellert Plaster only to new drywall or previous painted surface: ensure that the new drywall has been prepared to a level 4 standard. Ensure that the previously painted surface is clean, sound, and secure to the substrate.
- B. Protect adjacent surfaces.

3.04 INSTALLATION – for Ultra finish.

General: apply the Fellert system as per manufacturer's recommendations. Apply Fellert to regular drywall that is fire resistant and complies with ASTM C1396. Do not use moisture resistant drywall.

A. Fellert Fiberglass Board and Fellert Plaster to new drywall

1. Secure Fellert Plastic C Channel to studwork.
2. Mix and apply Fellert Adhesive to Fellert Fiberglass Board evenly and attach to drywall substrate. Allow 24 hours to dry prior to any sanding.
3. 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.
4. Sand Fellert Fiberglass joints with vacuum sander to smooth off joints.
5. Spray and trowel the first coat of Fellert Plaster (baselayer 1) and leave to dry (approx. 3–5 days).
6. Lightly sand baselayer 1 with a vacuum sander.
7. Spray and trowel the second coat of Fellert Plaster (baselayer 2) and leave to dry (approx. 2–4 days).
8. Lightly sand baselayer 2 with a vacuum sander.
9. Spray and trowel the final coat of Fellert Plaster (Ultra) to match approved sample and leave to dry (approx. 1–2 days).

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

1. Secure Fellert Plastic C Channel to studwork.
2. Secure Fellert Fiberglass Board to drywall ceiling grid substrate with Fellert Spring Washers and zinc coated screws.
3. 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.
4. Sand Fellert Fiberglass joints with vacuum sander to smooth off joints.
5. Spray and trowel the first coat of Fellert Plaster (baselayer 1) and leave to dry (approx. 3–5 days).
6. Lightly sand baselayer 1 with a vacuum sander.
7. Spray and trowel the second coat of Fellert Plaster (baselayer 2) and leave to dry (approx. 2–4 days).
8. Lightly sand baselayer 2 with a vacuum sander.
9. Spray and trowel the final coat of Fellert Plaster (Ultra) to match approved sample and leave to dry (approx. 1–2 days).

C. Fellert Plaster only to new drywall (level 4) or previously painted surface in clean condition

1. Apply Fellert Primer by brush/roller to substrate and leave 24 hours to dry prior to Fellert Plaster application.

2. Spray and trowel the first coat of Fellert Plaster (baselayer 1) and leave to dry (approx. 3–5 days).
3. Lightly sand baselayer 1 with a vacuum sander.
4. Spray and trowel the second coat of Fellert Plaster (baselayer 2) and leave to dry (approx. 2–4 days).
5. Lightly sand baselayer 2 with a vacuum sander.
6. Spray and trowel the final coat of Fellert Plaster (Ultra) to match approved sample and leave to dry (approx. 1–2 days).