



Section 098000

FSorb Acoustic Wall and Ceiling Panels

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Sound Attenuation Panels
- B. Sound Attenuation Baffles
- C. Sound Attenuation Grids

1.2 RELATED SECTIONS

- A. Section 09 81 00 - Acoustic Insulation
- B. 095100- Acoustical Ceilings

1.3 REFERENCES

- A. ASTM C423: Sound Absorption by Reverberation Room Method
- B. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials
- C. ASTM E1264: Standard Classification for Acoustical Ceiling Products
- D. UL Laboratories CDPH 2.0 TVOC Testing Standard Method – LEEDv4
- E. Living Building Challenge Criteria: Compliant. LBC Red List Free
- F. Interior Performance: CDPH Standard Method v1.2-2017

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's technical data sheets for each product to be used, including:
 - 1. Recommended cutting and preparation instructions
 - 2. Handling and storage requirements
 - 3. Installation techniques and methods
- C. Shop Drawings:
- D. Selection Samples: For each finish product specified, two sets of color samples representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 2-7/8" x 3-1/2" representing actual product, color, and thickness.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 5 year experience manufacturing similar products.
- B. Installer Qualifications: Minimum 2 year experience installing similar products.



- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship is approved by Architect.
 - 3. Confirm consistency of installation. Monitor front surface vs back surface during installation for consistency unless otherwise specified.
 - 4. Refinish mock-up area as required to produce acceptable work.

1.6 PRE-INSTALLATION MEETINGS

- A. Convene minimum two weeks prior to starting work of this section.

1.7 STORAGE, DELIVERY, AND HANDLING

- A. Deliver and store product in dry location within unopened manufacturer's packaging bearing the label with manufacturer's identification until ready for installation.
- B. Do not compress or bend product or package during storage.
- C. Segregate from strong oxidizers. Keep covered, clean and dry.
- D. Avoid handling. Handle materials only when required to avoid damage.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.9 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress or damage to FSorb material.

1.10 Extra Stock

- A. Provide a quantity equal to 2% of total installed or a minimum of two cartons of each type. New unopened cartons only.

PART 2 PRODUCTS

2.1 MANUFACTURERS

Acceptable Manufacturer: FSorb, located at 15135 NE 90th Street, Suite 200 Redmond, WA 98052 – Tel: 425.881.0888 or 1.844.313.7672 Email requests to info@fsorb.com further details can be found here: <https://www.f-sorb.com>

- A. Substitutions: Not permitted

2.2 ACOUSTICAL WALL AND CEILING PANELS

- A. Product: FSorb:
 - 1. Design: FSorb
 - a. Assemble Size: All panels are manufactured at 48"x96" (4'x8')
 - b. Noise Reduction Coefficient (NRC)
 - 1) [½" - 0.50 (Testing per ASTM C423 - A mount)]
 - 2) [1" - 0.70 (Testing per ASTM C423 - A mount)]



3) [2" - 1.05 (Testing per ASTM C423 - A mount)]

- B. Material: Thermally bonded (heat pressed) high density, recycled polyester (100%) acoustic panel containing not less than 60 percent post-consumer material.
1. Composition: Unfaced monolithic panel
 2. Thickness: ½" or 1" or 2"
 3. Weight: 12lbs/cf or 7.5 lbs/cf or 5lbs/cf
 4. Colors: Refer to section 2.5

2.3 SOUND ATTENUATION BAFFLES

A. Product: FSorb:

1. Design: Silentline

- a. Assembled Size: All baffles shapes cut from 48"x96" (4'x8') panels.
- b. Noise Reduction Coefficient (NRC)

1) [1/2" - 0.75 (Testing per ASTM C423 - J mount)]

2) [1" - 0.95 (Testing per ASTM C423 - J mount)]

3) [2" - 1.20 (Testing per ASTM C423 - J Mount)]

c. Design Options:

1) [Ocean]

a) [47" Long Baffles]

b) [95" Long Baffles]

2) [Mountain]

a) [47" Long Baffles]

b) [95" Long Baffles]

3) [Metro]

a) [47" Long Baffles]

b) [95" Long Baffles]

4) [Transit]

a) [47" Long Baffles]

b) [95" Long Baffles]

d. Design Length

1) Standard 47" and 95" Long

2) Custom made from [12" to 96" (1' to 8')]

f. Design Depth

1) [6"]

2) [8" Standard]

3) [12"]

4) [Custom]

e. Mounting:

1) Eye Lag

2) Dome Cap & Quick adjust grip

3) F-Snap High or Low (For attachment to bolt slot ceiling grid)

4) T-Snap High or Low (For attachment to standard 9/16" faced ceiling grid)

- B. Material: Thermally bonded (heat pressed), high density, recycled polyester (100%) acoustic panel containing not less than 60 percent post-consumer recycled material.
1. Composition: Unfaced monolithic panel.
 2. Thickness: [½" or 1" or 2"]
 3. Weight: 12lbs/cf or 7.5 lbs/cf or 5lbs/cf
 4. Colors: Refer to Section 2.5



2.4 SOUND ATTENUATION GRIDS

- A. Product: FSorb
1. Design: Quietgrid
 - a. Assembled Size: All Quietgrid shapes cut from 48"x96" (4'x8') panels.
 - b. Noise Reduction Coefficient (NRC)
 - 1) [1/2" – 0.75 (Testing per ASTM C423 - J mount)]
 - c. Design Options:
 - 1) [47", 71", or 95" Angle (A)]
 - 2) [47", 71", or 95" Chevron (K)]
 - 3) [47", 71", or 95" Curve (C)]
 - 4) [47", 71", or 95" Square (S)]
 - 5) [48 Ocean]
 - a) [Tegular Lay-in (T)]
 - b) [Shift and Set (SS)]
 - 6) [48 Mountain]
 - a) [Tegular (T)]
 - b) [Shift and Set (SS)]
 - 7) [48 Metro]
 - a) [Tegular (T)]
 - b) [Shift and Set (SS)]
 - 8) [48 Transit]
 - a) [Tegular (T)]
 - b) [Shift and Set (SS)]
 - d. Design Depth
 - 1) [6"]
 - 2) [8" Standard]
 - 3) [12"]
 - 4) [Custom]
- B. Material: Thermally bonded (heat pressed), high density, recycled polyester (100%) acoustic panel containing not less than 60 percent post-consumer recycled material.
1. Composition: Unfaced monolithic panel.
 2. Thickness: [1/2"]
 3. Weight: [12lbs/cf]
 4. Colors: Refer to Section 2.5

2.5 FSORB COLORS

- A. Finish: Unfaced panel color options:

1. Standard Colors:
 - a. [White #100]
 - b. [Light Grey #130]
 - c. [Grey #160]
 - d. [Tan #190]
 - e. [Charcoal #220]
 - f. [Black #250]
2. Premium Colors:
 - a. [Light Beige #300]
 - b. [Rose Red #330]
 - c. [Red #360]
 - d. [Pink #390]
 - e. [Orange #420]



- f. [Apricot #450]
- g. [Yellow #480]
- h. [Dark Green #510]
- i. [Green #540]
- j. [Moss Green #570]
- k. [Sea Foam Green #600]
- l. [Midnight Blue #630]
- m. [True Blue #660]
- n. [Ocean Blue #690]
- o. [Sky Blue #720]
- p. [Dark Purple #750]
- q. [Purple #780]
- r. [Chestnut #810]

3.1 EXAMINATION

- B. Do not begin installation until substrates have been properly prepared.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- D. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Locate system in accordance to the reflected plan. Install acoustical panels in location indicated. Follow the installation recommendations of the manufacturer. Align panels accurately, with edges plumb and top edges level.
- B. Install panels to construction tolerance of plus or minus 1/8 inch for the following:
 - 1) Plumb and Level
 - 2) Flatness
 - 3) Width of joints
- E. Cutting Acoustical Units: Make field cut edges of same profile as factory edges.
- F. Fit units in place, free from damaged edges or other defects detrimental to appearance and function.
- G. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- H. Install units using mechanical clips directly through blocking to decking, or to furring.

3.4 TOLERANCES

- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.
- B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.



3.5 PROTECTION

A Protect installed products until completion of project.

B Touch-up, repair or replace damaged products before Substantial Completion.