

SECTION 09 84 36

SOUND ABSORBING CEILING UNITS

(Acoustic Clouds by CSI Creative)

PART 1 - GENERAL

1.1. SECTION INCLUDES

- A. Connect Clouds
- B. Waffle Clouds
- C. Waffle Slanted Clouds
- D. Waffle Folded Clouds
- E. Profile Plus Clouds
- F. Profile Clouds
- G. Profile Framed Clouds
- H. Stacked Clouds
- I. Faceted Clouds
- J. Notched Clouds
- K. Blade Clouds

1.2. REFERENCES

- A. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- B. ASTM E 84/CAN/ULC S102 Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. NFPA 701 (2010; Small Scale Test) Standard Methods of Fire Tests for Flame Resistant Textiles and Films.
- D. NFPA 705 Recommended Practice for a Field Flame Test for Textiles and Films.
- E. SIN 722-06 Flammability Requirements for Fire Retardant Trees and Plants.

- F. Title 19 California State Fire Marshal minimum requirements for flame resistance products identified in Section 13115, California Health and Safety Code.
- G. NF X 70-100 (1986, Tube Furnace Method) Fire Test for Analysis of Pyrolysis and Combustion Gasses. Evaluation of Toxic Fumes.

1.3. SUBMITTALS

- A. Product Data: Submit Data sheet or Manufacturer Documentation for each product showing dimensions, materials, and colors.
- B. Shop Drawings: Submit shop drawings of site plans showing details of construction, product configuration, and related construction.
- C. Verification Samples: Submit samples of each chosen material and color.

1.4. QUALITY ASSURANCE

- A. Single-Source Responsibility: Provide acoustical components and installation components by a single manufacturer.
- B. Coordination of Work: Coordinate acoustical component work with installers of related work including, but not limited to light fixtures, mechanical systems, electrical systems, and sprinklers.

1.5. DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical components to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
- B. Before installing, allow acoustic components to gradually reach room temperature and a stabilized moisture content.
- C. Handle acoustic components carefully to avoid damage.

1.6. PROJECT CONDITIONS

- A. Space Enclosure:
 - 1. Acoustical Components: All wet work must be complete and dry prior to installation. Installation shall be carried out where the temperature is between 60 degrees F and 100 degrees F. These temperature conditions must be maintained for optimal component lifespan.

1.7. WARRANTY

- A. Acoustic Room Component: Submit a written manufacturer warranty, agreeing to repair or replace acoustical components that fail within the warranty period. Failures include, but are not limited to:
 - 1. Acoustical Room Component: Manufacturer's defects
- B. Warranty Period:
 - 1. Acoustical Room Component: Refer to manufacturer's standard warranty.

PART 2 - PRODUCTS

2.1. MANUFACTURER

- A. Accepted Manufacturer: CSI Creative.
 - 1. Location: 9901 W 74th St, Eden Prairie, MN 55344
 - 2. Phone: 800-213-0653
 - 3. Email: info@csicreative.com
 - 4. Web Address: www.csicreative.com
- B. Substitutions: No substitutions permitted.

2.2. SOUND ABSORBING CLOUDS

- A. Basis-of-Design:
 - 1. [Product Name] by CSI Creative www.csicreative.com
 - 2. Materials
 - a. Felt: PoshFelt® 100 percent wool 3mm design felt, 100 percent biodegradable.
 - b. Acoustic Substrate: Soundcore® 100 percent recyclable 12mm PET, 60 percent recycled content.
 - c. Artificial Greenery: ThermaLeaf® Inherently Flame Retardant Foliage. ThermaLeaf® artificial foliage is a proprietary formulation and manufacturing process whereby the fire retardants are impregnated directly into the raw materials of the foliage resulting in an inherently fire retardant "IFR" product.
 - a. ASTM E 84/CAN/ULC S102: Pass

- b. NFPA 701: Pass
 - c. NFPA 705: Pass
 - d. SIN 722-06: Pass
 - e. California Title 19: Pass
 - f. NF X 70-100: Pass
 - d. Contains no formaldehyde, chemical irritants, or harmful substances.
 - e. VOC info: VOC Free, Berkeley Analytical Certificate ID 190313-01
- 3. Panel Thickness: [12-48mm]
 - 4. Panel Size: []
 - 5. Felt Color: []
 - 6. Acoustic Substrate Color: []
 - 7. Edge: [Exposed Edge] [Covered Edge].
 - 8. Attachment Method: [Channel Suspension] [Individual Suspension] [Direct Attachment].
 - 9. Properties:
 - a. Acoustic Performance: NRC (ASTM C423): 0.45 - 1.55 varies by design.
 - b. Burning Characteristics: ASTM E-84 Class A

PART 3 - EXECUTION

3.1. EXAMINATION

- A. Proceed with installation only when all wet work is completed, and unsatisfactory site conditions have been corrected.

3.2. INSTALLATION

- A. Clean substrates and attachment points of dirt, oils, and other substances that could cause issues during installation.
- B. Install units in accordance with manufacturer's instructions and approved submittals.

3.3. ADJUSTING AND CLEANING

- A. Replace damaged or broken components.
- B. Adjust units for proper position, uniform appearance and operation.
- C. Clean exposed and semi-exposed surfaces using materials acceptable to the manufacturer.
- D. Maintenance of components should consist of:
 - i. Blot spills from material quickly. Wipe with a damp cloth. If stain persists, apply small quantities of carpet or upholstery shampoo solution with a damp cloth (test on inconspicuous location first). Blot well with a clean cloth after each application. Avoid excessive amounts of water. Ensure adequate ventilation if the product is subject to excessive moisture.

3.4. WASTE MANAGEMENT

- A. Waste Management
 - i. Coordinate recycling of waste materials with Section [01 74 19 - Construction Waste Management and Disposal].
 - ii. Collect recyclable waste and dispose of or recycle field generated construction waste created during demolition, construction or final cleaning.
 - iii. Remove recycling containers and bins from site.

3.5. PROTECTION

- A. Protect finished installation from dust and damage from subsequent and ongoing construction activity.

END OF SECTION