### **SECTION 09 84 36**

### **ACOUSTIC ROOM COMPONENTS - Sound-Absorbing Ceiling Units**

### 

### (Acoustic Ceiling Units by CSI Creative)

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### **PART 1 - GENERAL**

### 1.1. SECTION INCLUDES

### A. Folded Grid

### B. Folded Plug Grid

### C. Tile Grid

### D. Profile Grid

### E. Waffle Grid

### F. Blade Grid

### G. Plug Grid

### H. Notched Grid

### I. Section Grid

### 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.

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### **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](http://www.csiwallpanels.com/)

### B. Substitutions: No substitutions permitted.

### 2.2. SOUND ABSORBING SURFACES

### A. Basis-of-Design:

### 1. [Product Name] by CSI Creative

### [www.csicreative.com](http://www.csiwallpanels.com/)

### 2. Materials

### a. Acoustic Substrate: Soundcore® 100 percent recyclable 12mm PET, 60 percent recycled content.

### B. Decorative Finish: Elements, High-performance 8 mils vinyl architectural film.

### 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: []

### 6. Acoustic Substrate Color: []

### 7. Decorative Finish Color: []

### 8. Attachment Method: [Peel and Stick] [Snap Mount] [Z-Clip] [Construction Adhesive] [ACT Grid Press-Fit] [ACT Grid Drop-In] [ACT Grid Magnet] [Individual Suspension] [Linear Suspension] [Metal Bracket] [Linear Rail] [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 and UL-723

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### **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