

Section 095426

Wood Ceiling Reflector

PART 1 – GENERAL

RELATED DOCUMENTS

Drawings and general conditions of the Contract, including General and Supplementary Conditions and Division 1 Specification sections apply to the work of this section.

SUMMARY

Section Includes:

Wood ceiling tiles or plank and installation components.

Related Sections

Section 01350 Special Environmental Requirements

Section 095300 – Acoustical Ceiling Suspension Systems

Section 095100 – Acoustical Ceilings

Section 092116 – Gypsum Board Assemblies

Division 21 – Fire Suppression

Division 23 – Mechanical Diffusers, vents and other mechanical items

Division 26 – Electrical lights and other ceiling mounted electrical items

Alternates

Prior Approval: Proposed product substitutions may be submitted to the Architect no later than ten (10) working days prior to bid date. Substitutions will only be considered if submitted with complete product information, including acoustical data, and an 18” x 18” sample. Acceptance of substituted products is contingent on the Architect’s approval and substituted product’s compliance with all specified requirements of this section.

Approved products will be set forth by Addenda to all bidders.

1.3 REFERENCES

A. Test Methods:

1. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

2. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials
3. ASTM C 635 – Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
4. ASTM C 636 – Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
5. ASTM E 1264 – Classification for Acoustical Ceiling Products

1.4 SUBMITTALS

- A. Comply with Section 013300 – Submittal Procedures
- B. Product Data: Manufacturer’s technical data and installation instructions for each type of ceiling tile required.
- C. Certifications: Certified test reports showing compliance with performance requirements specified.
- D. Samples: Submit three (3) full size samples of each panel type required.
- E. Shop drawings: Submit shop drawings, including details, for all ceilings. Coordinate ceiling tile layout, installation and suspension system components with construction elements that penetrate tile ceilings or are supported by them. Show overall layout with dimensions and details for penetrations and intersections with other materials or building components.

1.5 QUALITY ASSURANCE

- A. Single Source Responsibility: Provide wood ceiling tiles or plank from a single manufacturer.
- B. Fire Performance Characteristics: Class A as tested by an independent accredited testing facility. Tests: ASTM E84. Flame spread: 25 or less. Smoke developed: 450 or less.
- C. Applicable LEED Credits:
 1. MR 4.1, 4.2 Recycled Content
 2. MR 6 Rapidly Renewable Materials
 3. EQ 4.4 Low-Emitting Materials
 4. MR 5.1 Use of Regional Materials (dependent on project location)
- D. Coordination of Work: Installing contractor shall organize and conduct a pre-installation humidity and other construction elements attaching, penetrating or concealed above wood ceiling tiles.

- E. Wood ceiling tiles or plank to be manufactured from no less than 75 percent recycled, post industrial material by weight.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Store products in a clean, cool dry place out of direct sunlight.
- B. Store products in a space where the ambient temperature and humidity conditions are being maintained at the levels indicated for the project when occupied for its intended use.
- C. Handle products carefully to avoid chipping edges or damage.

1.7 PROJECT CONDITIONS

- A. Do not install wood ceiling tiles or plank until space is enclosed and weather proofed, wet work is completely dry, work above ceilings is complete and ambient temperature and humidity conditions are maintained at the levels indicated for the project when occupied for its intended use.
- B. Permit tiles to reach room temperature 50 to 86 degrees F and stabilized moisture content of 25% to 55% RH for at least 72 hours before installation per AWI standards.

1.8 WARRANTY

- A. Provide manufacturer's written product warranty per Section 01770 – Closeout Procedures

1.9 MAINTENANCE

- A. Extra Materials
 - 1. Deliver no less than (3 percent) (5 percent) (1 carton) of each type, color and pattern of material.
 - 2. Extra materials shall be from the same production run as the original materials.
 - 3. Extra materials shall remain in the manufacturer's original unopened packaging and given to the building owner upon substantial completion of the work.

PART 2 – PRODUCTS

2.1 MANUFACTURER

- A. Acoustigreen Inc., 123 Columbia Court N, Chaska, MN 55318. Phone: 888-258-4637. Fax: 952-448-2613. Website: www.acoustigreen.com

2.2 WOOD CEILING REFLECTOR

- A. Product: Acoustigreen Fusion Wood Ceiling Reflector Panel as manufactured by Acoustigreen Company.
1. Surface texture: (Smooth) wood.
 2. Core: Manufacturer's color matched medium density fiberboard with solid color throughout.
 3. Edge banding: Not required with color match core
 4. Finish: Manufacturer's standard 100% water-borne, low VOC (less than .3 lbs. per gallon) UV cured finish with UV blockers. Manufacturers' (standard) (custom) color as chosen by Architect.
 5. Color: (Natural Cherry) (Tinted Cherry) (European Steamed Beech) (Maple) (Natural Bamboo) (Caramel Bamboo) (Plastic Laminate) (Custom to match Architect's sample)
 6. Thickness: 3/4 inch total thickness. (2-3/4 lbs/sq. ft.)
 7. Perforations: Unperforated
 8. Perforation size and patterns: Perforation diameter: (0.25 inch, 6.4mm) (0.31 inch, 8mm). Pattern: (Diamond) (Square) (As selected by Architect)
 9. Size: Nominal 39 inch by 60 inch+
 10. Edge: Square
 11. Frame: Metal ribs pre-curved to 12' radius, welded metal D-rings for suspension cables (cables supplied by others)
 12. Flame resistance: Class A per ASTM E84.
 13. Noise reduction Coefficient: (Note to specifier- NRC varies with perforation size, pattern and type of backing material. Verify project requirements with Acoustigreen)
 14. Recycle content: Minimum 75 percent recycled, post industrial materials by weight.
- B. Suspension System: Cables and components are supplied by others.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Inspect installation area and conditions under which work is to be performed for compliance with all manufacturers' environmental requirements. All wet work in the installation area must be complete, cured and dry prior to installation. Work above ceilings shall be complete, inspected and accepted before ceiling work begins. Do not proceed until all unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with manufacturer's instruction and recommendations for installation of ceiling tiles and industry standards.
- B. Coordinate the exact size, location and sequencing of penetrations of ceiling reflectors by all building components.
- C. Lay out ceiling pattern per approved shop drawings. Where not otherwise indicated, lay out tile so margins on opposite sides of rooms are equal or greater than ½ tile width.
- D. Where ceilings of different heights abut, install acoustical material matching ceiling at vertical surface of ceiling break match ceiling.
- E. Suspension System: (Section 095300 – Acoustical Ceiling Suspension Assemblies) and/or in compliance with the local authorities.

3.3 ADJUSTING AND CLEANING

- A. Clean soiled surfaces of ceiling tiles per manufacturer's instructions.
- B. Remove and replace damaged or discolored material and material that cannot be properly cleaned.
- C. Adjust tiles after installation so that surfaces are aligned, flush and level with gaps between units consistent in width and straight.

END OF SECTION