

Section 095426

Wood Grille Ceiling Panels

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 grille ceiling panels 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 panel required.
- C. Certifications: Certified test reports showing compliance with performance requirements specified.
- D. Samples: Submit three (3) full size samples of each panel type and veneer type required.
- E. Shop drawings: Submit shop drawings, including details, for all ceilings. Coordinate ceiling grille layout, installation and suspension system components with construction elements that penetrate grille 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 veneer or solid wood) grilles from a single manufacturer.
- B. Fire Performance Characteristics: Class A as tested by an independent and 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)
 5. MR 7 Use of FSC material
- D. Coordination of Work: Installing contractor shall organize and conduct a pre-installation humidity and other construction elements attaching, penetrating or concealed above wood veneer panels or planks.

- E. Wood veneer ceiling grilles to be manufactured from no less than 75 percent recycled, postindustrial 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 veneer grilles 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 GRILLE

- C. Product: Acoustigreen Grilles as manufactured by Acoustigreen Company.
1. Surface texture: (Smooth wood veneer) or (Solid wood)
 2. Core: (Manufacturer's color matched medium density fiberboard with solid color throughout, matching the chosen veneer) (Solid prime grade wood) (FSC certified solid prime grade wood).
 3. Edge banding: (to match veneer species and finish) or (Not required).
 4. Finish: Manufacturer's standard 100% water-borne, low VOC (less than .3 lbs. per gallon) UV cured finish with UV blockers. Manufacturer's (standard) (custom) color as selected by Architect.
 5. Veneer Grilles: (Natural Cherry) (Tinted Cherry) (European Steamed Beech) (Maple) (Natural Bamboo) (Caramel Bamboo) (Plastic Laminate) (Custom to match Architect's sample) or Solid wood panels as specified.
 6. Size: (Panelized) (Note: lengths 2' to 8' for veneered panels, up to 10' for solid wood panels).
 7. Interior installations: Grille patterns of 4, 5, 6, or 8 blades per foot. Other profiles available upon request. The blade depth and width to be selected by the architect.
 8. Accessories: Manufacturer's standard attachment clips and wood perimeter trims.
- C. Suspension System: (Section 095300 – Acoustical Ceiling Suspension Assemblies) or (insert acoustical ceiling tile suspension system specification)
Note: Heavy duty 15/16 inch grid is recommended.

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 grilles and industry standards.
- B. Coordinate the exact size, location and sequencing of penetrations of ceiling panels by all building components.
- C. Lay out ceiling pattern per approved shop drawings.
- D. Suspension System: (Section 095300 – Acoustical Ceiling Suspension Assemblies) or (insert acoustical ceiling suspension system specification)

3.4 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 panels after installation so that surfaces are aligned, flush and level with gaps between units consistent in width and straight.

END OF SECTION