

# Section 097714

## Wood Veneer Wall Panels

### Micro Perforated

#### 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 veneer wall panels and installation components.

###### Related Sections

Section 01350 - Special Environmental Requirements

Section 092116 - Gypsum Board Assemblies

Division 21 - Fire Suppression

Division 23 - Mechanical Diffusers, vents and other mechanical items

Division 26 - Electrical lights and other wall 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

#### 1.4 SUBMITTALS

- A. Comply with Section 013300 – Submittal Procedures
- B. Product Data: Manufacturer’s technical data and installation instructions for each type of wall 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 walls. 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 wall panels 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 behind wood veneer wall panels.
- E. Wood veneer wall panels to be manufactured from no less than 75 percent recycled, postindustrial wood fiber by weight.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Store products in a clean, 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 to veneer.

## 1.7 PROJECT CONDITIONS

- A. Do not install wood veneer wall panels until all wet work including taping, plastering, and floor finish is complete.
- 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.
- C. After installation, protect finished surface until all construction is complete.

## 1.8 WARRANTY

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

## 1.9 MAINTENANCE

- A. Extra Materials
  - 1. Deliver extra materials as specified by the Architect. Confirm that panels can be stored in a dry space laid flat and climate controlled.

## 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](http://www.acoustigreen.com)

### 2.2 WOOD VENEER WALL PANELS

- A. Product: Synergy micro-perforated by Acoustigreen Company.
  - 1. Surface texture: (Smooth wood veneer with micro-perforations .9mm or .4mm)
  - 2. Core: Manufacturer's standard 100% recycled wood fiber.
  - 3. Edge banding: (To match veneer species and finish).
  - 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: (Natural Cherry) (Tinted Cherry) (European Steamed Beech) (Maple) (Natural Bamboo) (Caramel Bamboo) (Plastic Laminate) (Custom to match Architect's sample)
  - 6. Size: (48 inch by 96 inch), (Custom size as indicated on drawings)

7. Thickness  $\frac{3}{4}$
8. Edge: (Square) (Custom as required).
9. Micro Perforations: (Perforation: 0.0354 inch, .9mm) (Perforation: 0.0157, .4mm) (Pattern: Diamond) (Spacing: Square pattern .1181 inches on center) (Spacing: .0787 inches on center diamond pattern).
10. Flame resistance: Class A per ASTM E84.
11. Noise reduction coefficient: Noise Reduction Coefficient (NRC): (E or A mount: .5 NRC) (Use of FS non-woven baker: .6 NRC) (Use of fiberglass or foam backer: .7 or above NRC)
12. Sound Insulation: Acoustical foam or fiberglass recommended by manufacturer to obtain required NRC.
13. Recycle content: minimum 75% percent recycled, postindustrial materials by weight.

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- A. Inspect installation area and conditions under which work is to be performed for compliance with all manufacturer's 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 panels by all building components.
- C. Lay out panels per approved shop drawings.

### 3.4 ADJUSTING AND CLEANING

- A. Clean soiled surfaces of wall panels per manufacturer's instructions.
- B. Remove and replace damaged or discolored material and material that cannot be properly cleaned.

END OF SECTION