

**PLYBOO SOUND PANEL  
DECORATIVE ACOUSTICAL WALL PANELS  
PRODUCT SPECIFICATION  
IN CSI 3-PART FORMAT**

Bamboo Design & Architecture  
8196, Royden Road  
Mont-Royal, QC, H4P 2T2

Phone: (514) 738-6060  
Toll Free: (844) 293-6060  
Fax: (514) 738-6161



La marque de la  
gestion forestière  
responsable

Website: [www.bamboodesignarchitecture.ca](http://www.bamboodesignarchitecture.ca)

E-mail:  
[info@bamboodesignarchitecture.ca](mailto:info@bamboodesignarchitecture.ca)

## PlybooSound Collection

### SECTION 09 83 19 (09710) DECORATIVE ACOUSTICAL WALLPANELS

#### PART 1—GENERAL

##### 1.1 RELATED DOCUMENTS

General conditions and shop drawings of Contract, including General and Supplementary Conditions including Division-1 sections should they apply to the work of this section.

##### 1.2 SUMMARY

- A. Section Includes:
  - 1. Wall panels, unfinished or prefinished decorative acoustical wall panels, and components.
- B. Related Sections:
  - 1. Section 01350, Special Environmental Requirements
  - 2. Division 26 (16) Sections – Electrical Work
- C. Substitutions
  - 1. Submittals which do not provide adequate product information required in the specification will not be considered. The proposed substitution shall meet all requirements of this section to be considered.

##### 1.3 REFERENCES

- A. Test Methods:
  - 1. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

2. ASTM E 90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.
3. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
4. California Special Environmental Requirements Specification Section 01350 Protocol: Standard Practice for Testing of Volatile Organic Emissions from Various Sources using Small-Scale Environmental Chamber CA/DHS/EHLB/R-174.

#### **1.4 SUBMITTALS**

- A. Product Data: Submit manufacturer's data for each type of wall panel required.
- B. Samples: For each specified wall panel, submit 6-inch by 6-inch samples of panels.
- C. Certifications: Submit copies of independent third-party certifications which meet specified requirements and related certified independent laboratory reports showing compliance with specified tests and standards.
- D. Shop Drawings: Submit shop drawings indicating wall panel layout, required trim, and seam locations for this project.

#### **1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Minimum 10 years of experience in producing bamboo wall panel products.

#### **1.6**

- B. Emissions Levels: Where indicated in Division 1 and, or Part 2, Products, quality assurance includes a copy of the laboratory letter verifying the product has been tested per California Special Environmental Requirements Protocol.

#### **1.7**

- C. Applicable LEED™ Credits:
  1. Credit MR 6 Rapidly Renewable Materials
  2. Credit MR 7 Certified Wood
  3. Credit EQ 4.4 Low-Emitting Materials, Composite Wood

#### **1.8 DELIVERY, STORAGE AND HANDLING**

- A. Wall panels are to be delivered to the project site in original, unopened packages and must be protected from moisture, direct sunlight, and damage.
- B. Storage temperatures should not be different from normal conditions of an occupied space, between 50 degrees F and 80 degrees F, with relative humidity between 30 - 50 percent.
- C. Before installing wall panels, allow to achieve room temperature of the conditioned environment.

#### **1.9 WARRANTY**

- A. Submit a written warranty from the manufacturer available at:  
[www.bamboodesignarchitecture.ca](http://www.bamboodesignarchitecture.ca)

## 1.10 MAINTENANCE

- A. Extra Materials:
1. Wall Panels: Furnish extra quantity of units equal to 5.0 percent of amount

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS & DISTRIBUTION

- A. Wall Panels:
1. Manufacturer: Smith & Fong Company, San Francisco, CA 94103
  2. Distributor: Bamboo Design & Architecture
    - a. Tel: (844) 293-6060
    - b. Email: [info@bamboodesignarchitecture.ca](mailto:info@bamboodesignarchitecture.ca)
    - c. Website: [www.bamboodesignarchitecture.ca](http://www.bamboodesignarchitecture.ca)

### 2.2 WALL PANELS

- A. Wall Panels: Type AWP-1:
1. Material: 100% Bamboo (FSC Certified)
  2. Surface Texture: Smooth
  3. Surface Type: Species: Moso bamboo (*Phyllostachys Pubescens*)
  4. Base/Core Composition: REALCORE™; Species: Moso bamboo (*Phyllostachys Pubescens*)
  5. Sound Absorption: QuietWall™ Technology
  6. Color: (Amber) or (Natural)
  7. Patterns: (A-1) (A-2) (A-3) (A-4) (A-5) (A-6) (A-7)
  8. Standards/Certifications: (CARB II) (NAF/FSC 100%)
  9. Thickness: ¾-inch (19mm)
  10. Width: 47-1/2 inches (1206mm)
  11. Panel Heights: 95-1/2 inches (2426mm)
  12. Edge Profile: Straight edge
  13. Noise Reduction Coefficient (NRC): ASTM C 423: avg. 0.50
  14. Sound Transmission Class (STC): ASTM E 795A: **Rating 0.00**
    - a. 43 – Wall Panel on one side of 5/8" drywall on 3-5/8" metal studs
    - b. 46 – Wall Panel on two sides of 5/8" drywall on 3-5/8" metal studs
    - c. 52 - Wall Panel on one side of 5/8" drywall on 3-5/8" metal studs with R-11 fiberglass insulation in cavity
  15. Flame Spread: ASTM E84; Class C (Class B available).
  16. Emission Testing: Section 01350 Protocol: No VOC's with chronic REL's (reference exposure level) detected, passes office, school and residential.
  17. Dimensional Stability: Standard – space must be enclosed with HVAC systems operating and with appropriate humidity levels maintained between 30%RH-50%RH at all times.
  18. Acceptable Product: Plyboo Sound Panel, as manufactured by Smith & Fong Company.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. All wet work such as concrete, terrazzo, plastering and painting must be completed and thoroughly dried out before installing the product specified, unless expressly permitted by manufacturer's printed recommendations.

### **3.2 PREPARATION**

- A. Measure the wall area(s) and establish layout of wall panel units per shop drawings and to ensure border widths are balanced at opposite edges. Coordinate panel layout with mechanical and electrical fixtures.

### **3.3 INSTALLATION**

- A. Install wall panels by attaching the panels to an existing wall per the manufacturer's instructions and in accordance with the authorities having jurisdiction.
- B. Install panels using a standard Z-clip system.

### **3.4 ADJUSTING AND CLEANING**

- A. Replace damaged and broken panels.
- B. Perform routine maintenance involving frequent vacuuming to mitigate dirt accumulation. When needed, clean with a damp (not wet) cloth.

**END OF SECTION**