

## **CoreBOO™ SLAT Panels on AIR MESH - CSI Specs**

### **BAMBOO WALL PANELS**

#### **1.03 QUALITY ASSURANCE**

##### A. Qualifications:

###### 1. Manufacturer Qualifications:

- a. Use of low-VOC and E0 Compliant adhesives and finishes in manufacturing of all products.
- b. Minimum of five years' experience in manufacturing, supply and use of the bamboo panel type specified.
- c. Installation contractor needs to have 3 years' experience installing wood 'slat' wall panels in the proposed type of application.

#### **1.04 DELIVERY, STORAGE, AND HANDLING**

A. Deliver wall tiles/paneling to project site, or fabrication site, not less than 3 days prior to start of installation (to allow for suitable acclimation).

#### **1.05 PROJECT/SITE CONDITIONS**

A. Environmental Requirements: Installation spaces, bamboo panels and adhesive must be maintained at normal occupancy temperature and humidity levels (HVAC working) for minimum of 72 hours prior to installation.

#### **1.06 WARRANTY**

A. Sustainable Materials' Structural Warranty: 10 years against delamination or separation because of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.

### **PART 2 – PRODUCTS**

#### **2.01 MANUFACTURER/DISTRIBUTOR**

Sustainable Materials  
5403 Western Ave #C  
Boulder, CO 80301 USA

Tel: (720) 449-3063  
e-mail: [info@SustainableMaterials.com](mailto:info@SustainableMaterials.com)  
Website: [www.SustainableMaterials.com](http://www.SustainableMaterials.com)

1. *Panel Profile:* Air Mesh
2. *Slat Size* [Select **Sizing** – format: thickness x height (w/ gap spacing)]:
  - a. Square 20 (tight) – 20mm x 20mm (w/ 10mm gap)
  - b. Square 20 – 20mm x 20mm (w/ 20mm gap)
  - c. Square 30 – 30mm x 30mm (w/ 30mm gap)
  - d. Flat 30 (tight) – 20mm x 30mm (w/ 10mm gap)
  - e. Flat 40 (tight) – 20mm x 40mm (w/ 10mm gap)
  - f. Flat Mix – 20mm x 40/20/20/60mm (w/ 8mm gap)
  - g. Tall 40 – 40mm x 20mm (w/ 20mm gap)
  - h. Tall 50 – 50mm x 20mm (w/ 20mm gap)
  - i. Tall 38 – 38mm x 25mm (w/ 25mm gap)
  - j. \*custom sizing to be selected
3. *Slat Panel Support structure* Bamboo Cross Beams with (Select **Thickness** and **Color**):
  - a. Cross Beam Thickness:

- i. Standard 1/2" (14 mm)
    - ii. \*custom thickness to be selected
  - b. Color Fabric:
    - i. Black (default color)
    - ii. \*custom color to be selected
- 4. CoreBOO™ SLAT Finish Type (Select **Type** and **Color**):
  - a. UV (satin – interior only)
    - i. White
    - ii. Light
    - iii. Dark
    - iv. Walnut
    - v. Black
  - b. OIL (matte – interior/exterior)
    - i. White
    - ii. Natural
    - iii. Teak
    - iv. Hazelnut
    - v. Walnut
    - vi. Grey
    - vii. Black
- 5. Installation Methodology (Select **Method**; see *Installation Instructions for additional details*):
  - a. Direct application to substrate (glue and screw)
- 6. Substitutions: None Permitted

## 2.02 MATERIALS

### A. CoreBOO™ SLAT Panel on Air Mesh

1. CoreBOO™ Slat Species: Sustainably harvested bamboo (solid construction)
2. Panel Size (*standard*): 2440mm\*600mm (approx. 96" x 24")
  - \* *Other lengths available upon request (up to 5.8m/19 ft.)*
3. Physical Property Performance Requirements:
  - a. Composition: 100% solid bamboo
  - b. Density: ±680 kg/m<sup>3</sup> (EN323)
  - c. Durability Class: 1-2 (EN350)
  - d. Janka Hardness: 1,380 lbf
  - e. Moisture Content: 10% -14%
  - f. Formaldehyde Emission: ND (EN 717-1, ISO 16000-9 & ISO16000-6)
  - g. TVOC: ND (ISO 16000-9:2006 / COR1-2007 & ISO 16000-6: 2011 & ISO 16000-3: 2011)
  - h. Fire Rating (*standard*): B-s1, do (EN13501)
  - i. Fire Rating (*w/treatment*): Class A (ASTM E84-17)
  - j. Fungus Resistance (for OIL coated versions): Grade O (JIS Z 2911)
  - k. Bending Strength: 111.75 N/mm<sup>2</sup> (EN310)
  - l. Modulus of Elasticity: 9750 N/mm<sup>2</sup> (EN310)
  - m. Screw retentivity rate (EN13446):
    - a. Edge withdrawal - long side: 31 N/mm<sup>2</sup>
    - b. Edge withdrawal – Short side: 36 N/mm<sup>2</sup>
    - c. Surface withdrawal: 44 N/mm<sup>2</sup>
  - n. Water absorption rate (EN318):
    - a. Change in length: ±1%
    - b. Change in thickness: ±1%
  - o. Brinell hardness (HB): 30 N/mm<sup>2</sup>

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

A. Examine substrate(s) to which CoreBOO™ SLATS will be applied:

1. Components must be clean, dry, and free of contamination that would interfere with adhesive bond.
2. Drywall or other wall substrate will need 'priming' (or sealing) not currently sealed.

B. Verify that HVAC system operates and maintaining occupancy level temperature and humidity conditions.

C. If either of the above need's attention, coordinate with responsible entity to correct unsatisfactory conditions.

### **3.02 PREPARATION**

A. Acclimatization: Open all packaging to allow the material to acclimate for a minimum of 72 hours prior to the start of the installation.

B. Fix substrate if needed (as per Examination needs and those relating to the adhesive bond per the instructions of the adhesive selected for use).

### **3.03 INSTALLATION**

A. Refer to Sustainable Materials' Installation instructions.

### **3.04 CLEANING and MAINTENANCE**

A. Clean and maintain in accordance with guidelines presented in Installation Guidelines.

With any questions, or for this in a digital format, contact:

Sustainable Materials

Phone: (720) 449-3063

Email [info@SustainableMaterials.com](mailto:info@SustainableMaterials.com)

Web: [www.SustainableMaterials.com](http://www.SustainableMaterials.com)