

## **CoreBOO™ DIMENSIONAL Panels - 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 wall panels.

#### **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. CoreBOO™ DIMENSIONAL Panels 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

2. Panels can also be produced and shipped as Unfinished
3. Installation Methodology: Construction adhesive to back of panel and pin nail to hold in place.
4. Substitutions: None Permitted

## **2.02 MATERIALS**

### **A. CoreBOO™ DIMENSIONAL Panels:**

1. Species: Bamboo
2. Panel Size: **Made and Cut To The Specified Width, Length and Thickness**
3. Physical Property Performance Requirements:
  - a. Composition: 100% solid bamboo
  - b. Density:  $\pm 680$  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:  $\pm 1\%$
    - b. Change in thickness:  $\pm 1\%$
  - o. Brinell hardness (HB): 30 N/mm<sup>2</sup>

B. Installation Adhesive: Wakol Loba MS-262

C. Finish: UV Water-Based or Oil Matte Finish

D. Panel substrate: Solid bamboo – 3 ply construction

\*\*Can apply Perforated Panel to PET to increase sound absorption.

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

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

1. Components must be clean, dry, and free of contaminants 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 is operating and maintaining occupancy level temperature and humidity conditions.

C. If either of the above needs attendance, 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. Find Center: using a chalk line, find the symmetrical axes of the wall sides to determine starting point. Measure from the middle to ensure that the edge pieces (those against the adjacent walls) are identical in size and greater than 2" in width.

B. Install panels side by side.

C. Apply adhesive to the back of the panel and then pin nail to the substrate to hold in place.

### **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

Ph: (720) 449-3063

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

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