

## **CSI Spec. for DensaCore™ Flooring (09640)**

### **Prefinished DensaCore™ Flooring**

#### **PART 1 – GENERAL INFO**

##### **1.03 QUALITY ASSURANCE**

###### **A. Qualifications:**

###### **1. Manufacturer Qualifications:**

- a. Flooring product achieves Greenguard® GOLD Office/Classroom standards for TVOC (Total Volatile Organics), Formaldehyde, and Total Aldehydes levels.
- b. Use of low-VOC adhesives and finishes in all manufacturing operations.
- c. Manufacturer/Supplier must have legal right to the patented process and glues used in the production of specified DensaCore™ flooring.

###### **2. Installer Qualifications:**

- a. Minimum three years' experience in hardwood and resilient flooring installation.
- b. Installer must be a member of the National Wood Flooring Association.

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

A. Deliver flooring to project site in original boxes not less than 10 days prior to start of installation.

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

A. Environmental Requirements: Installation spaces, flooring, and adhesive (if used) must be maintained at normal occupancy temperature and humidity levels for minimum 10 days prior to installation. Flooring with natural elements, like DensaCore™, function best when the room temperature ranges from 60-70 Fahrenheit, and the room relative humidity stays between 40-60%. **Important Note:** As a component of the warranty, room temperatures must be controlled and remain between 50-80 Fahrenheit, and room relative humidity must remain between 35-65% both prior to installation and year-round, or warranty will be voided. Should your climate controlled indoor typical climatic conditions fall outside of this range, contact us to analyze an extension to these parameters (which will be analyzed on a case-by-case basis).

##### **1.06 WARRANTY**

###### **A. Special Warranty:**

DensaCore™™ Residential Structural Warranty: Lifetime Warranty against delamination or separation because of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.

DensaCore™™ Residential Finish Warranty: 10 Year warranty against wear through to the underlying flooring or separation from the flooring because of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.

DensaCore™™ Commercial Structural Warranty: Lifetime warranty against delamination or separation because of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.

DensaCore™™ Commercial Finish Warranty: 1 year against wear through to the underlying flooring or separation from the flooring because of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.

## **PART 2 – PRODUCTS**

### **2.01 MANUFACTURER/SUPPLIER**

A. Sustainable Flooring  
5403 Western Ave Unit C  
Boulder, CO 80301  
Tel: (303) 544-6076  
e-mail: [info@sustainableflooring.com](mailto:info@sustainableflooring.com)  
Website: <http://www.sustainableflooring.com>

B. DensaCore™ Flooring:

1. Color

- a. DensaCore™ French Roast
- b. DensaCore™ Weathered
- c. DensaCore™ Dark Walnut
- d. DensaCore™ Driftwood
- e. DensaCore™ Nantucket
- f. DensaCore™ Cinnamon

\* Slight color variations are expected, and are considered normal within the manufacturing operations. Please inquire as to the availability of further differentiated color shades.

C. Substitutions: None Permitted.

### **2.02 MATERIALS**

A. DensaCore™ Flooring:

1. Veneer: Strandwoven® Bamboo (Mao Tsu - Hairy Bamboo).

2. Construction: Engineered multilayer plank (composite ground stone core on cross-linked padded underlayment)

3. Size:

- a. Click Lock 920mm x 130mm x 6mm (approx. 36" x 5-1/8" x 9/32")

\*\*other dimensions available

4. Edge: Click Lock System with Micro Beveled Edge

5. Back: Channeled.

6. Chemical Treatment: Natural borate solution to eliminate pests and mildew.

7. Finish: Commercial-grade acrylic polyurethane with imbedded Aluminum Oxide

8. Physical Property Performance Requirements:

- a. Hardness: ASTM D 1037, Janka Ball: 5342 psi (avg.)

- b. Dimensional Stability: ASTM D 1037-99: linear.03, thickness 1.52, width .20
- c. Flammability: ASTM E 648: Class I Interior
- d. Smoke Density: ASTM E 622: Maximum 344 in flaming mode; 192 in non-flaming mode.
- e. Slip Resistance: ASTM D 2394: Static Friction Coefficient 0.586; Sliding Friction Coefficient 0.59.
- f. Abrasion Resistance: ASTM D 4060, CS-17 Taber abrasive wheels: Final wear-through: Minimum 12,600 cycles.
- g. Moisture Content: ASTM D 4442, Oven Dry Method: 6-10% percent average (varies based on distribution point).
- h. Formaldehyde Emissions: BQL (Below Quantifiable Limit - less than amount required for Greenguard® GOLD Office/Classroom certification).

B. Installation Adhesive: No Adhesive required during the installation of the DensaCore 'click lock' flooring, but adhesive can be used if needed. Please see Sustainable Flooring installation instructions: DensaCore™ Installation Instructions.

### **PART 3 - EXECUTION**

#### **3.01 EXAMINATION**

- A. Examine substrates upon which flooring will be installed.
  - 1. Verify that subfloor is clean, dry, and free of contaminates that would interfere with adhesive bond.
  - 2. If installing on concrete: Test concrete floors for moisture content using a Calcium Chloride test or Tramex Moisture Encounter meter. Do not install flooring if vapor pressure exceeds 3 lbs per 1,000 sf (15 g per m<sup>2</sup>) in 24 hours, as under these conditions 'urethane' adhesives tend to fail. [Note: if a specialized adhesive for high moisture level concrete is needed, contact Sustainable Flooring for an option].
    - a. In multiple story buildings, test each floor level where DensaCore flooring will be installed.
    - b. Mark test location(s) on As-Built Drawings.
  - 3. If installing on Wooden Sub-floor: The moisture content between the flooring and wood subfloor must not exceed a 3% difference.
    - a. In multiple story buildings, test each floor level where bamboo flooring will be installed.
    - b. Mark test location(s) on As-Built Drawings.
- B. Verify that HVAC system is operating and maintaining occupancy level temperature and humidity conditions.
- C. If either of the above require attendance, coordinate with responsible entity to correct unsatisfactory conditions.

#### **3.02 PREPARATION**

- A. Acclimatization: Open all bundles, and let acclimate for a minimum of 10 days.
- B. Fix the substrate to ensure bumps and depressions are less than 1/8" over 8 feet.

### **3.03 INSTALLATION**

A. DensaCore Flooring: Install in accordance with manufacturer's installation instructions by floating over subfloor making sure bamboo is protected from any moisture in subfloor. Lay flooring in the direction(s)/pattern(s) as shown on Drawings. Inquire for: DensaCore™ Installation Instructions.

B. Accessories: Install using methods appropriate to the accessory and flooring system.

### **3.04 CLEANING**

A. Clean in accordance to manufacturer's maintenance recommendations. Inquire for DensaCore™ Maintenance Guidelines.

### **3.05 PROTECTION**

A. Cover installed flooring with heavy kraft-paper or other suitable covering. Do not use non-breathable sheet or film that could cause condensation to form. Maintain covering throughout remainder of construction period.

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

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Boulder, CO 80301  
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