

## **Sustainable Flooring's CSI Spec. for Gymboo Float™ Flooring (09640)**

### **PREFINISHED SOLID PLANK BAMBOO FLOORING FOR EXERCISE, DANCE AND GENERAL RECREATIONAL USE**

#### **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 five years experience in manufacturing of bamboo flooring.
- c. Member: National Wood Flooring Association, United States Green Building Council

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

- a. Minimum three years experience in hardwood flooring installation in gym and recreational installations.

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

A. Deliver flooring to project site in original boxes not less than 5 days prior to start of installation.

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

A. Environmental Requirements: Installation spaces, flooring and adhesive must be maintained at normal occupancy temperature and humidity levels (HVAC working) for minimum 3 days prior to installation. Installation contractor must test for moisture, as referenced in the installation guidelines, ensuring that moisture content of product relative to subfloor is sufficient for installation (less than 3% moisture content difference between the material to be installed, and the subfloor to which it is being installed). This is very important.

#### **1.06 WARRANTY**

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

Sustainable Flooring's Structural Bamboo Warranty: 10 years against delamination or separation as a result of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.

## **PART 2 – PRODUCTS**

### **2.01 MANUFACTURER**

A. Sustainable Flooring  
4390 Pali Way  
Boulder, CO 80301

Tel: (303) 544-6076  
Fax: (303) 447-0491

e-mail: [info@sustainableflooring.com](mailto:info@sustainableflooring.com)

Website: <http://www.sustainableflooring.com>

B. Bamboo Flooring Strip Type:

- A. Vertical Grain - Bamboo strips laminated together with edges exposed to the wear surface to form a solid bamboo plank without internal voids.
- B. Horizontal Grain - Bamboo strips laminated together with along their faces, exposed their "nodes", forming a solid bamboo plank without internal voids

2. Color:

- A. Gymboo Light
- B. Gymboo Dark
- C. Gymboo "stain" (custom colorization)

E. Substitutions: None Permitted.

## 2.02 MATERIALS

A. Bamboo Flooring:

- 1. Brand: Sustainable Flooring Gymboo™
- 2. Species: Mao Tsu (Hairy Bamboo).
- 3. Size: 5" wide by 7/8" inch thick by 75.6" length
- 4. Edge: Micro-beveled edge, with tongue and groove on four sides (ie: end-matched).
- 5. Back: Channeled, with groove cut for "clip" inclusion.
- 6. Chemical Treatment: Natural borate solution and hydrogen peroxide to eliminate pests and mildew
- 7. Finish: Prefinished with two-component commercial grade urethane
- 7. Physical Property Performance Requirements:
  - a. Hardness: ASTM D 1037, Janka Ball: 1798 lbs
  - b. Dimensional Stability: ASTM D 1037-99: Dimensional change coefficient: 0.00144.
  - c. Flammability: ASTM E 648: Class I Interior Floor Finish rating per NFPA 101.
  - d. Smoke Density: ASTM E 622: Maximum 270 in flaming mode; 330 in non-flaming mode.
  - e. Compressive Strength: ASTM D 3501: Minimum 7,600 psi (52 MPa) parallel to grain; 2,624 psi (18 MPa) perpendicular to grain.
  - f. Tensile Strength: ASTM D 3500: Minimum 15,300 psi (105 MPa) parallel to grain.
  - g. Formaldehyde Emissions: ASTM E 1333: 0.0127 ppm average Phenol (No Urea Formaldehdye inclusion acceptable).

B. Shock-absorptive Underlayment and fastening "clip" system:

- 1. Vapor barrier: 6mil plastic or equivalent
- 2. Foam Pad Underlayment: 3/4" Triple-Ply Air Cushioning Suspension System; size: 4'10" x8'
- 3. Installation Clips: Exerclips® - spring-tempered steel clips for fastening the floorboards.

## 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. Contractor must ensure that the concrete slab is smooth and flat, and not to exceed a level tolerance greater than 1/8" over 10 feet in all directions. Further, the slab must be protected from the ground and wall in all directions by an acceptable vapor barrier to prohibit moisture transfer to the flooring assembly. 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.

a. 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 need attendance, coordinate with responsible entity to correct unsatisfactory conditions.

### **3.02 PREPARATION**

A. Acclimatization: Open all bundles, and let acclimate for a minimum of 5 days. Ensure plywood used in the system is also dried to the site conditions.

B. Fix the substrate to ensure bumps and depressions are less than 1/8" over 10 feet.

### **3.03 INSTALLATION**

A. Gymboo Flooring System:

1. Install 6 mil. vapor barrier, overlapped 6" at seams, and taped.
2. Lay "Triple-ply" underlayment padding sheets parallel to the short dimension of the room. Panels should be butted against the walls, and each other, with edges secured with duct tape.
3. The arm of the clip shall be inserted into the groove on the underside of the board. Five clips should be used per 6' board, spacing them approximately 16" apart on center. The free arm of the clip is to point in the same direction as the tongue of the boards, in other words, the laying direction.
4. Install subsequent rows of flooring in a staggered pattern, wherein the second row of flooring begins with a piece that is at least 30" longer (or shorter) than the first piece of the beginning row; continue staggering throughout.
5. Expansion gaps of 7/8" must be used on all walls, around the perimeter of the room. For installation purposes, you can use wedges between the boards and the walls – these must be removed upon the completion of the project.
6. Along vertical obstructions such as pipes, columns,, etc., leave at least 7/8" of expansion space to allow for movement of the flooring planks.
7. The last row of boards shall not have clips installed, but instead be glued with a wood glue to the adjacent and preceding board. This last row may need to be cut to fit, but ensure that the required 7/8" expansion space is left.
8. Install transitions and thresholds as required.

B. Install Perimeter Molding:

1. Install rubber base molding with base cement, screws, nails, or another acceptable fastening method at intervals of 24" on center. Vacuum and "tack" floor surface prior to finish application.
2. Use pre-molded outside corners and neatly mitered inside corners.

### **3.04 CLEANING**

A. Clean in accordance to finish Manufacturer's Maintenance Recommendations

### **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.

### **PART 4 – WARRANTY**

See “Sustainable Flooring Gymboo Warranty” for full description, exclusions, and disclaimer.

Sustainable Flooring (herein referred to as the manufacturer) warrants that the commercial flooring sold under this Warranty is, at the time of sale, free of defects in material and manufacture, and that it adheres to Sustainable Flooring’s strict specifications for the flooring model. Sustainable Flooring further warrants that when professionally installed and maintained (both in accordance with Sustainable Flooring instructions) and used for its’ intended purpose, Sustainable Flooring Gymboo will not delaminate or separate as a result of a manufacturing defect for a period of ten (10) years from the date of sale (herein considered “Sustainable Flooring Warranty Period”).

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

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