



## Fitness Flooring CSI Spec. for Zenterra Sports Flooring (09640)

### **UNFINISHED SOLID STRIP BAMBOO FLOORING FOR GYM AND RECREATIONAL PURPOSES**

#### **1.03 QUALITY ASSURANCE**

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

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

- a. Use of low-VOC and E-1 Compliant adhesives
- b. Minimum five years experience in manufacturing of bamboo flooring

###### **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:**

Fitness Flooring's Structural Warranty: 3 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. Fitness Flooring  
6801 Lake Plaza, A-105  
Indianapolis, IN 46220  
Tel: (800) 428-5306  
Fax: (317) 849-6181  
e-mail: [info@zenterrafloor.com](mailto:info@zenterrafloor.com)  
website: [www.zenterrafloor.com](http://www.zenterrafloor.com)

##### **B. Bamboo Flooring Strip Type:**

1. Lamination: Vertical Grain - Bamboo strips laminated together with edges exposed to the wear surface to form a solid bamboo plank without internal voids.

2. Color: Natural Light

C. Substitutions: None Permitted.

## 2.02 MATERIALS

A. Bamboo Flooring:

1. Brand: Fitness Flooring Zenterra Sport
2. Species: Mao Tsu (Hairy Bamboo).
3. Size: 2-1/4" wide by 3/4" inch thick by 72" length
4. Edge: Square-edge, with tongue and groove on four sides.
5. Back: Channeled.
6. Color: Natural Light
7. Chemical Treatment: Natural borate solution and hydrogen peroxide to eliminate pests and mildew
8. 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.

B. Shock-absorptive Underlayment/substrate system:

Vapor barrier: Emil plastic or equivalent

Shock Absorptive Rubber Pads:

- a. Zenterra Sport Pro (for general recreation)
  1. Dimension: 10mm x 55mm x 73mm (approx. 3/8"x2-1/8"x2-13/16")
  2. Profile: Rectangular waffle
- b. Zenterra Sport Pad Elite (for high performance systems)
  1. Dimension: 19mm x 65mm diameter (approx. 3/4"x2-9/16")
  2. Profile: Conical Elastomer "TPR" Rubber with telescopic cushioning

3. Substrate:

C. Accessories:

1. Fasteners: 2 inch barbed flooring cleats, 7d or 8d galvanized flooring nail, or 2 inch 15-gauge staples with 1/2 inch crowns.

D. Finish System:

1. Bona Sportive Finish; Contact Bona Kemi: (800) 872-5515, or at [www.bona.com](http://www.bona.com); \_Direct link to product information: [http://www.bona.com/upload/product%20description/Sportive\\_Finish\\_Description.odf](http://www.bona.com/upload/product%20description/Sportive_Finish_Description.odf).

[or] suitable alternative

Note: Oil-based urethanes have a tendency to "yellow" over time.

2. Bona Sportive Paint (court demarcation lines); Contact Bona Kemi: (800) 8725515, [www.bona.com](http://www.bona.com); \_Direct link to product information: [http://www.bona.com/upload/product%20description/Sportive\\_Paint\\_Description.odf](http://www.bona.com/upload/product%20description/Sportive_Paint_Description.odf).

[or] suitable alternative

## 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 contaminants 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. Zenterra Sport Flooring System: Install in accordance with manufacturer's installation instructions by installing a vapor barrier, 2 layers of plywood, and then the flooring. Flooring to be nailed or stapled to substrate. Lay flooring in the direction(s)/pattern(s) as shown on Drawings. For detailed instructions, contact Fitness Flooring: (800) 428-5306, or [sales@fitnessfloors.com](mailto:sales@fitnessfloors.com).

B. Finish application: Apply selected finish in accordance with finish manufacturer's installation guidelines. Bona Kemi: (800) 872-5515, or at [www.bona.com](http://www.bona.com). Direct link to site prep: [http://www.bona.com/upload/Sitework/Sportive\\_Finish\\_Sitework.pdf](http://www.bona.com/upload/Sitework/Sportive_Finish_Sitework.pdf).

### 3.04 CLEANING

A. Clean in accordance to 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.

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

Fitness Flooring  
6801 Lake Plaza, A105  
Indianapolis, IN 46220  
Ph: (800) 428-5306  
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Web: [www.zenterrafloor.com](http://www.zenterrafloor.com)