

Sustainable Flooring's CSI Spec. for Bamboo Flooring (09640)

PREFINISHED SOLID STRIP BAMBOO FLOORING

1.03 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer Qualifications:

- a. Use of low-VOC and E-0 Compliant adhesives and finishes in manufacturing of all products.
- b. Minimum five years experience in manufacturing and distributing bamboo flooring of the type specified.
- c. Member: National Wood Flooring Association, United States Green Building Council

2. Installer Qualifications:

- a. Minimum three years experience in hardwood flooring installation.
- b. Minimum three years experience in installation of hardwood flooring over radiant heating systems.

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:

1. Sustainable Flooring's Structural Warranty: 20 years against delamination or separation as a result of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.
2. Sustainable Flooring's Commercial Finish Warranty: 1 years against wear through to the underlying flooring or separation from the flooring as a result of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions (for Aluminum Oxide topcoats only).
3. Sustainable Flooring's Residential Finish Warranty: 5 years against wear through to the underlying flooring or separation from the flooring as a result of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions (for Aluminum Oxide topcoats only).

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

B. Bamboo Flooring Strip Type (select one):

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

a. Color: Natural or Carbonized

2. Horizontal Grain: Bamboo strips laminated together face up to form a 3-ply solid bamboo plank without internal voids.

a. Color: Natural or Carbonized

C. Substitutions: None Permitted.

2.02 MATERIALS

A. Bamboo Flooring:

1. Species: Mao Tsu (Hairy Bamboo).

2. Size: 4-3/8" wide by 5/8 inch thick by 36" or 72" length. (OR) 3-5/8" wide by 5/8" by 6'; (Other widths, thicknesses, and lengths available upon request).

3. Edge: Tongue and groove with micro-bevel edge (for Unfinished: Tongue and groove with square edge)

4. Back: Channeled.

5. Chemical Treatment: Natural borate solution and hydrogen peroxide to eliminate pests and mildew.

6. Finish: 7 layers total - Five base coats of 100 percent solids, non off-gassing, water-based system with aluminum oxide, followed with two top coats of scratch-resistant polyurethane. (Unfinished and prefinished without Aluminum Oxide are available).

7. Physical Property Performance Requirements:

a. Hardness: ASTM D 1037, Janka Ball: Minimum 2075 lbs (Horizontal Natural), 1898 lbs (Horizontal Carbonized), 1798 lbs (Natural Vertical), and 1392 lbs (Vertical Carbonized).

b. Dimensional Stability: ASTM D 1037: 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. Slip Resistance: ASTM F 1679, English XL test: Average Dry Slip Index: 0.630.

h. Abrasion Resistance: ASTM D 4060, CS-17 Taber abrasive wheels: Final wear-through: Minimum 12,600 cycles.

i. Moisture Content: ASTM D 4442, Oven Dry Method: 5.47 percent average.

j. Formaldehyde Emissions: ASTM E 1333: 0.0127 ppm avg. Phenol (No Urea Formaldehyde inclusion acceptable).

B. Installation Adhesive: One-part moisture-cured urethane premium wood floor adhesive.

C. Nails or Staples:

1. 1-1/2 Inch (38 mm) Thick Subfloor: 2 inch nails or staples.

2. 3/4 Inch (19 mm) Thick Subfloor: 1-1/2 inch nails or staples.

3. 1 inch Thick Plywood Subfloor Over Concrete: 1-1/4 inch (32 mm) nails or staples.

2.03 ACCESSORIES

A. Stair Treads: (11-1/2" wide x 1" thick x 48" length or 6' or 8'). Specify grain, color, and finish.

B. Stair Riser: (7-1/2" wide x 5/8" thick x 48" length). Specify grain, color, and finish.

C. Stair Nosing: (size varies by dimension of flooring). Specify grain, color, and finish.

D. Base Board: (size varies by dimension of flooring). Specify grain, color, and finish.

E. Reducer: (size varies by dimension of flooring). Specify grain, color, and finish.

F. T- transition molding: (size varies by dimension of flooring). Specify grain, color, and finish.

G. Floor Vents: Call for availability. Specify color and finish.

H. Plywood: (4' wide x 3/4" thick x 8' length). Specify grain and color.

I. Veneer: (size varies by availability). Specify grain and color.

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. 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 m²) in 24 hours.

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

3.03 INSTALLATION

- A. Bamboo Flooring: Install in accordance with manufacturer's installation instructions by _____ (nailing or stapling to substrate) [or] (gluing to substrate) [or] (nailing or stapling and gluing to substrate). Lay flooring in the direction(s)/pattern(s) as shown on Drawings.
- B. Accessories: Install using methods appropriate to the accessory and flooring system.

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:

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