

CSI Spec. for Strandwoven® Bamboo Flooring (09640)

Prefinished Strandwoven® Bamboo Flooring

PART 1 – GENERAL INFO

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 and distributing bamboo flooring of the type specified.
- c. Manufacturer must have legal right to the patented process and glues used in the production of specified Strandwoven® Bamboo flooring.

2. Installer Qualifications:

- a. Minimum five years' experience in hardwood 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. Hardwood flooring functions best when the room temperature ranges from 60-70 Fahrenheit, and the room relative humidity stays between 40-60%. **Important Note:** Room temperatures must 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. A humidifier or dehumidifier may be needed to remedy these conditions, which not only will ensure a healthy Strandwoven floor, but also help ensure a healthy indoor air quality. **Note:** In extremely dry climates, care should be taken to avoid shrinkage by allowing flooring to acclimatize under actual use conditions. Remove the planks from the box and expose them to local conditions for several days. Follow guidelines and recommendations contained within the Installation Instructions (NOTE: acclimation is critical and there is a supplemental document to follow referenced in the Installation Instructions).

1.06 WARRANTY

A. Special Warranty:

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

Strandwoven® Bamboo 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 (for Aluminum Oxide topcoats only).

Strandwoven® Bamboo Residential Finish Warranty: 5 years 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 (for Aluminum Oxide topcoats only).

PART 2 – PRODUCTS

2.01 MANUFACTURER

A. Sustainable Materials
5403 Western Ave Unit C
Boulder, CO 80301
Tel: (720) 449-3063
e-mail: info@sustainablematerials.com
Website: <http://www.sustainablematerials.com>

B. Strandwoven® Bamboo Plank Flooring:

1. Color

- a. Strandwoven® Bamboo Light
- b. Strandwoven® Bamboo Dark
- c. Strandwoven® Bamboo Rustic
- d. Strandwoven® Bamboo Ivory
- e. Strandwoven® Bamboo Peat
- f. Strandwoven® Bamboo Sand

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

C. Substitutions: None Permitted.

2.02 MATERIALS

A. Strandwoven® Bamboo Flooring:

1. Species: Mao Tsu (Hairy Bamboo).

2. Size:

- a. T&G 9/16" x 5-5/8" x 72"

**other dimensions available

3. Edge and Construction: T&G Solid with a micro beveled edge

4. Back: Channeled.

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

6. Finish: 7 layers total – Seven coats of 100 percent solids, non-off-gassing, water-based urethane.

7. Physical Property Performance Requirements:

- a. Hardness: ASTM D 1037, Janka Ball:3200 psi (avg.)
- b. Dimensional Stability: ASTM D 1037-99: less than 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 D 2394: Static Friction Coefficient 0.562; Sliding Friction Coefficient 0.497.

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 (varies based on distribution point).

j. Formaldehyde Emissions: ASTM E 1333: 0.02 ppm Phenol avg.

B. Installation Adhesive: Please see Sustainable Materials installation instructions

C. Accessories:

a. Treads with bull nosing

b. Risers

c. T-molds

d. End Caps

e. Quarter Round

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates upon which flooring will be installed.

1. Verify that the subfloor is clean, dry, and free of contamination 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, as under these conditions, "urethane" adhesives tend to fail.
 - a. In multiple story buildings, test each floor level where bamboo flooring will be installed.
 - b. Mark test location(s) on As-Built Drawings.
3. If installed 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. Bamboo 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 Strandwoven® Bamboo Installation Guidelines.

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

3.04 CLEANING

A. Clean in accordance with Manufacturer's Maintenance Recommendations. Inquire for Strandwoven® 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 the 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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Website: <http://www.sustainablematerials.com>