

CSI Spec. for Strandwoven® Bamboo Flooring (09640)

Prefinished Strandwoven™ Bamboo Flooring

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. Member: National Wood Flooring Association, United States Green Building Council
- d. 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 three 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 acclimate under actual use conditions. Remove the planks from the box and expose to local conditions for several days

1.06 WARRANTY

A. Special Warranty:

1. Strandwoven™ Bamboo 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. Strandwoven™ Bamboo 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 top-coats only).

3. Strandwoven™ Bamboo 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 top-coats 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. Strandwoven™ Bamboo Plank Flooring:

1. Color

- a. Strandwoven™ Light
- b. Strandwoven™ Dark
- c. Strandwoven™ Mix (Light and Dark together)

* 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. Bamboo Flooring:

1. Species: Mao Tsu (Hairy Bamboo).
2. Size: 98mm x 15mm x 1830mm (approx. 3-7/8" wide x 5/8" thick x 72" long).
* other widths, thickness, and lengths are available upon special order.
3. Edge: Tongue and groove with micro-bevel 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. No aluminum oxide to be used.
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: 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: 298mm x 25mm x 1220mm (approx. 48" x 1" x 11-3/4 "). Specify color.

B. Stair Riser: 190mm x 15mm x 1220mm (approx. 48" x 5/8" x 7.5"). Specify color.

C. Stair Nosing: 1830mm x 92mm x 14mm (approx. 72" x 5/8"-1" x 3-5/8"). Specify color.

D. Base Board: 1830mm x 92mm x 12mm (approx. 72" x 1/2" x 3-5/8"). Specify color.

E. Base Shoe: 1830mm x 19mm x 13mm (approx. 72" x 3/4" x 12"). Specify color.

F. Reducer: 1830mm x 50mm x 15mm (approx. 72" x 2" x 5/8"). Specify color.

G. T-mold: 1830mm x 54mm x 22mm (approx. 72" x 2-1/8" x 7/8"). Specify 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, 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 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. Bamboo Flooring: Install in accordance with manufacturer's installation instructions by either:(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. Inquire for Strandwoven™ Installation Guidelines.

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 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 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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Fax: (303) 447-0491
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