

CSI 3-Part Product Specification
AMBIENT STRAND WOVEN-CLICK LOCK ENGINEERED BAMBOO FLOORING
SECTION 09 62 23

6 Pages

GENERAL NOTES TO SPECIFIER:

THIS SPECIFICATION SECTION HAS BEEN PREPARED TO ASSIST DESIGN PROFESSIONALS IN THE PREPARATION OF PROJECT OR OFFICE MASTER SPECIFICATIONS. IT FOLLOWS GUIDELINES ESTABLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE, AND THEREFORE MAY BE USED WITH MOST MASTER SPECIFICATION SYSTEMS WITH MINOR EDITING.

PLEASE CAREFULLY EDIT TO SUIT YOUR PROJECTS SPECIFICATIONS. ADJUST ITEMS AS NECESSARY AND DELETE THOSE THAT DO NOT PERTAIN. VERIFY THAT THE REFERENCED SECTION NUMBERS AND TITLES ARE CORRECT. BECAUSE OF THE VARIATION IN SPECIFICATION SYSTEMS CURRENTLY IN USE, ARTICLE AND PARAGRAPH NUMBERS AND TILES MAY DIFFER SOMEWHAT THAN WHAT'S PRESENTED HEREIN.

IF THE PROJECT MANUAL DOES NOT CONTAIN THE NECESSARY SECTIONS, ADDITIONAL INFORMATION SHOULD BE INCLUDED UNDER THE APPROPRIATE ARTICLES OR ATTACHED TO THE END OF THE DOCUMENT LABELED WITH THE CORRECT SUB-HEADINGS.

PART 1 – GENERAL

1.01 SUMMARY

A. Ambient Strand Click Lock bamboo flooring should be installed by the floating method or glue down method. Any accessories should be installed by the glue down method.

B. Related Sections: LEED®: US Green Building Council, Leadership in Energy and Environmental Design Green Building Rating System™.
Ambient Strand bamboo flooring contributes to LEED® EQ Credit 4.4 Environmental Requirements Low-Emitting Materials and MR Credit 6 Rapidly Renewable Materials.

1.02 SUBMITTALS

A. Submit following items:

1. Samples:
 - a. 6 or 12 inch long piece of flooring plank, with the supplier/manufacturer identified.
 - b. One of each specified accessory, minimum 4 inches long.
2. Shop Drawings: Include direction of flooring, fastening method to be used, patterns and transition accessories. Include large scale details of accessories and details of all transitions.
3. Product Data:
 - a. Flooring Specification Sheet. Include:
 1. Finish specs: finish type, composition and manufacturer
 2. Material Safety Data Sheet (MSDS)

3. Manufacturer's installation guidelines and installation requirements
4. NWFA Technical Reference Manual
- b. Accessories. Include:
 1. Finish specs
 2. Accessory profiles
- c. Installation adhesive: non required
- d. Warranty
4. Quality Assurance/Control Submittals:
 - a. Qualifications: Proof of installers' qualifications.
 - c. Manufacturer's Installation Guidelines.

B. Closeout Submittals: submit following items:

1. Maintenance instructions.
2. Warranty information.

1.03 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer Qualifications:
 - a. Minimum 10 years experience in manufacturing and distributing bamboo flooring.
 - b. Proof of legal right to provide product.
 - c. Member: U.S. Green Building Council, National Wood Flooring
2. Installer Qualifications:
 - a. Minimum three years experience in bamboo/hardwood flooring installation.

B. Pre-Installation Meeting:

1. Convene meeting at project site within one week of scheduled start of installation with representatives of the following in attendance: Architect, Owner, General Contractor, and Sub-Contractor.
2. Review project/site conditions, requirements of related work, requirements for operation of HVAC system, installation guidelines, storage and handling procedures, and protection measures.
3. Keep minutes of meeting including responsibilities of various parties and deviations from specifications and guidelines for installation.
4. Distribute minutes to attendees within 48 hours.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver flooring to project site in original boxes.
- B. Allow no less than 5-14 days prior to start of installation for flooring to arrive.
- C. Check manufacturer installation guide for detailed acclimation instructions. Let the flooring acclimate to site conditions accordingly.

1.05 PROJECT/SITE CONDITIONS

- A. Environmental Requirements: Room temperature and humidity of all installation spaces, flooring and adhesive must be maintained at normal occupancy (35% - 55% humidity), room temperature (60 - 70 degrees F) for a minimum of 72 hours prior to installation. HVAC systems must be operational and controlling site temperature and humidity.

1.06 WARRANTY

- A. Warranty for Prefinished Ambient Strand Bamboo Flooring:
1. Ambient Residential Structural Warranty: Lifetime warranty against de-lamination, separation, buckling or cupping as a result of a manufacturing defect. Please see www.AmbientBP.com for our current product warranty.
 2. Ambient Commercial Structural Warranty: 15 years against de-lamination, separation, buckling or cupping as a result of a manufacturing defect. Please see www.AmbientBP.com for our current product warranty.
 3. Ambient Residential Finish Warranty: Lifetime against wear through to the underlying flooring or separation from the flooring as a result of a manufacturing defect. Please see www.AmbientBP.com for our current product warranty.
 4. Ambient Commercial Finish Warranty: 5 years against wear through to the underlying flooring or separation from the flooring as a result of a manufacturing defect. Please see www.AmbientBP.com for our current product warranty.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Ambient Bamboo Products (Phone: 800-710-7070)
8125 Stayton Dr Ste C (Fax: 301-498-0238)
Jessup, MD 20794 (Email: info@AmbientBP.com)
Website: <http://www.AmbientBP.com>
- B. Strand Bamboo Engineered Click Lock Flooring Type:
1. Bamboo strand composite with a uv-cured acrylic urethane finish laminated to a high stability multi-layer eucalyptus core with a poplar bottom layer.
 - a. Color: several options
 - b. Thickness: 9/16 inch (14mm)
 - c. Joint: Click Lock.
 - d. Edges and ends: micro bevel.
- C. Substitutions: None Permitted

2.02 MATERIALS

- A. Strand Bamboo Engineered Click Lock Flooring:
1. Species: Moso Bamboo.
 2. Size: 72" x 5 5/8" x 9/16" and 72" x 7-1/2" x 9/16"
 3. Milling: Click lock interlocking system
 4. Finish: UV cured polyurethane, solvent free, non-off gassing 10-Coat Factory Finish with aluminum oxide.
 5. ASTM – American Society for Testing and Materials International
Physical Property Performance Requirements:
 - a. Hardness: ASTM D 1037 Standard Test Method for wood-based fiber and particle panel materials
Janka: as high as 5,342 (wear layer)
 - b. Dimensional Stability at 20% RH: ASTM D 1037 Standard Test Method for wood-based fiber and particle panel materials:
Dimensional change coefficients:

-0.06 parallel / -0.37 perpendicular / -0.67 thickness

c. Slip Resistance: Coefficient of Friction: ASTM D2394 Standard Test Methods for Simulated Service Testing of Wood and Wood-Base Finish Flooring

Static .36 Sliding .447

d. *Flammability: ASTM E 648 Standard Test Method for critical radiant flux of floor-covering systems using a radiant heat energy source:

1.0 plus. Highest in Class-1 Interior Floor Finish rating

e. *Smoke Density: ASTM E 622 Standard Test Method for smoke density with heat flux: Maximum 269 in flaming mode; 329 in non-flaming mode

f. Compressive Strength: ASTM D 3501 Standard Test Method for wood-based structural panels in compression:

Minimum 7,459 psi (51.4 MPa)

g. Abrasion Resistance: ASTM D 4060, CS-17 Taber abrasive wheels. Standard Test Method for abrasion resistance of organic coatings by the Taber Abraser:

Final wearthrough: 61ug/cycle

Minimum 15,000 cycles

h. Moisture Content: ASTM D 4442, Oven Dry Method Standard Test Method for direct moisture content measurement of wood and wood-base materials:

8.4 percent, average

i. Formaldehyde Emissions: ASTM E 1333 Standard Test Method for determining formaldehyde concentrations in air emission rates from wood using a large chamber:

less than 0.01 ppm

j. Thermal Resistance: ASTM C 518-04 Standard Test Method for steady-state thermal transmission properties by means of the heat flow meter apparatus:

R value of 0.54

k. No added urea formaldehyde.

note: data items listed with an * come from similarly tested products and are expected to be close to actual measurement of Ambient Strand Woven.

B. Installation - floating: Click lock floating installation, recommended over 3 in 1 vapor underlayment.

C. Installation – glue down: Use only 100% urethane premium wood floor adhesive or equivalent, with compatible trowel. If sub-floor is concrete or existing crawl space ensure adhesive contains vapor barrier with required upper moisture limit.

D. Subfloors: no specific sub-floors required. Subfloor shall be checked for flatness prior to installation, low spots and voids shall be filled to a minimum of 3/16” in a 10 ft. radius or 1/8” in a 6 foot radius. Surface should be smooth, clean and free of debris or protruding fasteners.

2.03 ACCESSORIES

A. Stair Treads: Match flooring grain, color, and finish. Multiple sizes available.

B. Stair Riser: Match flooring grain, color, and finish. Multiple sizes available.

C. Stair Nosing: Match flooring grain, color, and finish. 72” length.

D. Reducer: Match flooring grain, color, and finish. 72” length.

E. T-Molding: Match flooring grain, color, and finish. 72” length.

F. Quarter Round: Match flooring grain, color, and finish. 72” length.

- G. Baseboard: Match flooring grain, color, and finish. 72" length.
- H. Baby Threshold: Match flooring grain, color, and finish. 72" length.
- I. Register Vent: Match flooring grain, color, and finish. Multiple sizes available.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine substrates upon which the flooring will be installed.
 - 1. Verify that the subfloor is clean, dry, and free of contaminants or protruding fasteners.
 - 2. Test subfloor for moisture vapor emissions using a Calcium Chloride or equivalent test. Do not install flooring if vapor pressure exceeds 2 lbs per 1,000sf (15g per m²) within a 24 hour period.
 - a. In multiple story buildings, test each floor level scheduled to receive bamboo flooring.
 - b. Mark test location(s) on As-Built Drawings.
- B. Verify that HVAC system is operating and maintaining an occupancy level temperature and humidity conditions.
- C. Coordinate with responsible entity to correct unsatisfactory installation conditions.
- D. Commencement of work by installer is considered an acceptance of substrate conditions.
- E. Prior to installation, the installer shall examine all material and determine that it matches the work order.

3.02 PREPARATION

- A. Please reference the Installation and Maintenance Guidelines.
<http://ambientbp.com/pdf/bamboo-flooring-installation-instructions.pdf>
- B. Acclimatization: Open flooring boxes, remove shrink wrap and foam packing at a minimum of 72 hours prior to start of installation.
- C. Grind and or fill subfloor using methods and materials appropriate to the subfloor construction to eliminate humps and depressions.
- D. Because bamboo is a natural fiber, variations in color naturally occur from plank to plank. Each box should be inspected for differences in color with color variation staggered throughout the floor. To ensure the best results, work out of several boxes simultaneously.

3.03 INSTALLATION

- A. Please reference the Installation and Maintenance Guidelines.
<http://ambientbp.com/pdf/bamboo-flooring-installation-instructions.pdf>
- C. Lay flooring perpendicular to the flooring joists or in the direction(s)/pattern(s) as shown on Drawings.
- D. Accessories: Install using methods appropriate to the accessory and flooring system.
- E. If installation environment is absent of a strict humidity control system, the maximum successive flooring "runs" allowable for engineered floating bamboo floors are 45 feet longitudinally (down the lengths of the planks) and 25 feet tangentially (across the widths of the planks).

3.04 CLEANING

- A. Clean products according to maintenance instructions: <http://ambientbp.com/pdf/maintenance-instructions-bamboo-floor.pdf>

3.05 PROTECTION

A. Cover already installed floors with heavy paper or cardboard to keep debris from foot traffic from damaging floor, but for no longer than 14 successive days to avoid discoloration. Tape together if necessary. (please note the only tape approved for use on our floors and moldings is 3M/Scotchguard #2080 tape)

B. If glued down, avoid foot traffic as much as possible until proper cure time has passed and do not move heavy furniture on floors for no less than 24 hours or in accordance with the manufacturer.

END OF PRODUCT SPECIFICATION