

## Architectural Specification

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### USF Contract- Strand Woven and Corboo® with Natural-E™ finish

All references included in this document refer to USFloors as the product manufacturer. Natural Bamboo® is a trade brand name represented under the exclusive control of USFloors Inc.

#### PART 1: General

##### 1.1 QUALITY ASSURANCE

###### A. Description:

This document specifies Natural Bamboo® Strand Woven Solid plank board flooring made from the renewable resources of 100% Moso6™ bamboo [and Quercus suber cork (Corboo®)]

###### B. Qualifications:

###### 1. Manufacturer Qualifications:

- a) Use of low-VOC Compliant adhesives and finishes in manufacturing of all products
- b) Minimum 10 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 strand woven bamboo flooring.

###### C. Installer Qualifications:

1. Minimum three years experience in hardwood flooring installation.
2. Installer must be a member of the National Wood Flooring Association.

##### 1.2 DELIVERY, STORAGE, AND HANDLING

- A. Deliver flooring to project site in original boxes not less than 10 days prior to start of installation.

##### 1.3 PROJECT/SITE CONDITIONS

- A. General contractor shall provide suitable concrete or wood surface subject to approval of installer.
- B. Installation surface shall be free of dust, soils, and coatings and sealers.
- C. Surface tested for moisture, not to exceed Natural Bamboo® plank flooring guidelines.
- D. Labor and materials necessary to put surfaces in acceptable condition shall be responsibility of general contractor.
- E. Subfloor must not exceed 14% moisture content (ER method)
- F. Environmental Requirements: Installation spaces, flooring and adhesive (if used) require normal occupancy temperatures and humidity levels for minimum 10 days prior to installation.
  1. Hardwood flooring functions best when the room temperature ranges from 60-70 Fahrenheit, and the room relative humidity stays between 40-60%.
  2. Note: Room temperatures must remain at 50-80 Fahrenheit, and room relative humidity must remain between 35-65% both prior to installation and year-round, or warranty will be voided.
  3. Use of a humidifier or dehumidifier may remedy conditions, which to not only ensure a healthy strand woven floor, but also help ensure a healthy indoor air quality.
  4. Note: In extremely dry climates, 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
- G. All material shall be set in strict accordance with USFloors printed specifications
- H. Trim boards to touch for the length of intersections at pipes and vertical projections, seal joints at pipes with waterproof cement.

##### 1.4 WARRANTY

- A. Strand woven bamboo structural Warranty: lifetime against delamination or separation because of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.
- B. Strand woven Bamboo and Corboo™ limited wear warranty: 15-year commercial against wear through to the underlying flooring or separation from the flooring because of a manufacturing defect if compliant to the procedures of installation and maintenance according to the manufacturer's installation instructions.

## PART 2: PRODUCTS

### 2.01 Manufacturer

USFloors Inc  
3580 Corporate Drive  
Dalton, GA 30721 USA  
800.404.2675 X28  
[www.USFloorsllc.com](http://www.USFloorsllc.com)

### 2.02 MATERIALS

#### A. Acceptable Product :USF Contract CORBOO™ with Natural-E™ finish

##### 1. Physical Properties

- a) Composition: Solid strand woven bamboo flooring (compressed bamboo) infused with cork
- b) Species: Mao Tzu Moso6™ Bamboo and Quercus Suber Cork
- c) Sizes: approx.5 5/8" X 72" x 12.7mm
- d) Micro-beveled edge – slight .2mm eased edge
- e) Thickness: 12.7 mm
- f) Finish: Natural-E™ Organic Natural Oil
- g) Solvent free, 100% solid, Non-off gassing
- h) Colors 4standard prefinished colorways – Custom colors available
- i) Back: Channeled

##### 2. Performance Requirements:

- a) Hardness: ASTM D 1037, Janka Ball
- b) Flammability: ASTM E 648: Class I Interior Floor Finish
- c) NFPA 255: Passes "life Safety Codes"
- d) Smoke Density: ASTM E 622
- e) Compressive Strength: ASTM D 3501
- f) Slip Resistance: ASTM D 2394 Friction Coefficient
- g) Abrasion Resistance: ASTM D1037
- h) Moisture Content: ASTM D 4442 (varies based on distribution point)
- i) Formaldehyde Emissions: CARB Compliant - <EO standards
- j) Lacey Act Compliance

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

##### 3. Installation Adhesive:

- a. One-part premium wood floor adhesive Greenguard Certified
- b. 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

#### B. Acceptable Product : USF Contract Strand Woven Spice with Natural-E™ finish

##### 1. Physical Properties

- a) Composition: Solid strand woven bamboo flooring (compressed bamboo)
- b) Species: Mao Tzu Moso6™ Bamboo
- c) Sizes: approx.5 5/8" X 72"x 12.7mm
- d) Micro-beveled edge – slight .2mm eased edge
- e) Thickness: 12.7 mm
- f) Finish: Endura AR+ commercial acrylic finish with nano ceramic particulates
- g) Solvent free, 100% solid, Non-off gassing
- h) Colors 36 standard prefinished colorways – Custom colors available
- i) Back: Channeled

##### 2. Performance Requirements:

- a) Hardness: ASTM D 1037, Janka Ball
- b) Flammability: ASTM E 648: Class I Interior Floor Finish

- c) NFPA 255: Passes "life Safety Codes"
- d) Smoke Density: ASTM E 622
- e) Compressive Strength: ASTM D 3501
- f) Slip Resistance: ASTM D 2394 Friction Coefficient
- g) Abrasion Resistance: ASTM D1037
- h) Moisture Content: ASTM D 4442 (varies based on distribution point)
- i) Formaldehyde Emissions: CARB Compliant - <E0 standards
- j) Lacey Act Compliance

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

3. Installation Adhesive:

- a) One-part premium wood floor adhesive Greenguard Certified
- b) 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

C. Acceptable Product : USF Contract Strand Woven Natural with Natural-E™ finish

1. Physical Properties

- a) Composition: Solid strand woven Natural Vertical and Horizontal bamboo flooring
- b) Species: Mao Tzu Moso™ Bamboo
- c) Sizes: approx. 5 5/8" X 72" x 12.7mm
- d) Micro-beveled edge – slight .2mm eased edge
- e) Thickness: 12.7 mm
- f) Finish: Endura AR+ commercial acrylic finish with nano ceramic particulates
- g) Solvent free, 100% solid, Non-off gassing
- h) Colors 4 standard prefinished colorways – Custom colors available
- i) Back: Channeled

2. Performance Requirements:

- a) Hardness: ASTM D 1037, Janka Ball
- b) Flammability: ASTM E 648: Class I Interior Floor Finish
- c) NFPA 255: Passes "life Safety Codes"
- d) Smoke Density: ASTM E 622
- e) Compressive Strength: ASTM D 3501
- f) Slip Resistance: ASTM D 2394 Friction Coefficient
- g) Abrasion Resistance: ASTM D1037
- h) Moisture Content: ASTM D 4442 (varies based on distribution point)
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Note: Slight color variations are expected, and considered normal within the manufacturing operations. Please inquire as to the availability of further differentiated color shades

3. Installation Adhesive:

- a) One-part premium wood floor adhesive Greenguard Certified
- b) 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

D. Requests for substitutions considered in accordance with provisions of Section 01600.

E. Substitutions: Not permitted

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Examine substrates prior to installation
- B. Verify that subfloor is clean, dry, and free of contaminants that would interfere with adhesive bond.
- C. Concrete installation: Test concrete floors for moisture content using a Calcium Chloride test or Tramex Moisture

Encounter meter.

1. Do not install flooring if vapor pressure exceeds 3 lbs per 1,000 sf (15 g per m<sup>2</sup>) in 24 hours, as under these conditions “urethane” adhesives tend to fail.
  2. In multiple story buildings, test each floor level
  3. Mark test location(s) on As-Built Drawings
- D. The subfloor moisture content is not to exceed 14% for plywood substrate.
1. In multiple story buildings, test each floor level
  2. Mark test location(s) on As-Built Drawings.
- E. Verify that HVAC system is operating and maintaining occupancy level temperature and humidity conditions.
- F. If either of the above requires attendance, coordinate with responsible entity to correct unsatisfactory conditions.

### 3.02 PREPARATION

- A. Acclimatization:
1. Open all bundles, and let acclimate for a minimum of 72 hours.
  2. Fix the substrate to ensure bumps and depressions are less than 1/8” over 10 feet.

### 3.03 INSTALLATION

- A. Install in accordance with manufacturer's installation instructions by either:
1. nailing or stapling to substrate
  2. gluing to substrate
  3. nailing or stapling and gluing to substrate
  4. Lay flooring in the direction(s)/pattern(s) as shown on Drawings.
  5. Inquire for Strandwoven™ Installation Guidelines.
  6. 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 strand woven maintenance guidelines.

### 3.05 PROTECTION

- A. Remove visible adhesive and other surface blemishes using cleaner as recommended.
- B. Do not wash floor for at least five days following installation
- C. When the planks sufficiently seats (in no case less than five days), clean in accordance with USFloors written directions.
- D. After cleaning the flooring surface, it is necessary to protect the floor from mars, indentations, paint drippings, or other damage by either using building paper or by keeping traffic off the floors until the building is ready for occupancy.
- E. Do not use non-breathable sheet or film that could cause condensation to form. Maintain covering throughout remainder of construction period
- F. Should the floors become dirty or damaged prior to final acceptance by the Owner, they shall be repaired, recleaned, refinished, or replaced as required so that the Owner will receive floors ready for occupancy without additional cleaning before using.

### 3.06 OPERATIONS AND MAINTENANCE DOCUMENTS

- A. Upon completion of floor installation the owner, attendants or individuals in charge responsible for upkeep of building are to follow care and maintenance instructions. Wait 48 hours after completion of installation and application of any finish before beginning maintenance program. Use finish manufacturer's maintenance instructions for bamboo floors, which have finish applied on site. Use USFloors maintenance instructions for prefinished bamboo floors that do not have extra finish applied on site.
- B. The General Contractor shall supply original copies of all Natural Bamboo® flooring cleaning and maintenance information provided by USFloors. The Owner’s maintenance personnel must receive this information upon completion of work.