

CSI Spec. for Strandwoven TIMBER™ (09640)

Strandwoven TIMBER™ Flooring

PART 1 – GENERAL INFO

1.03 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer Qualifications:

- a. Use of low-VOC and E1 Compliant adhesives and finishes in manufacturing of all products.
- b. Manufacturer must have legal right to the patented process and glues used in the production of specified Strandwoven TIMBER™ flooring products.

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 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, as required under installation guidelines.

1.06 WARRANTY

A. Special Warranty:

1. Strandwoven TIMBER™ Structural Warranty: Lifetime warranty against delamination or separation because of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.
2. Strandwoven TIMBER™ Commercial Finish Warranty: 1 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).
3. Strandwoven TIMBER™ 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
4390 Pali Way
Boulder, CO 80301

Tel: (720) 449-3063
e-mail: info@sustainablematerials.com
Website: <http://www.sustainablematerials.com>

- B. Strandwoven TIMBER™ Plank Flooring:

1. Color

- a. Strandwoven TIMBER™ Sunburst Unfinished
- b. Strandwoven TIMBER™ Natural Light Prefinished
- c. Strandwoven TIMBER™ Natural Dark Prefinished

* 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 TIMBER™ Flooring:

1. Species: Seven species of wood, all 100% post-industrial.

2. Size:

- a. Strandwoven TIMBER™ Sunburst Unfinished:
98mm x 14mm x 1830mm (approx. 3-7/8" wide x 9/16" thick x 72" long).
- b. Strandwoven TIMBER™ Natural Light/Natural Dark:
140mm x 13mm x 1200mm (approx. 5.5" wide x 1/2" thick x 47" long).

* Other widths, thickness, and lengths are available upon special order.

3. Edge: Tongue and groove with micro-bevel edge for prefinished and square edge for unfinished.

4. Back: Channeled.

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

- a. Strandwoven TIMBER™ Sunburst only comes unfinished, a site-applied coating must be used after installation.

6. Physical Property Performance Requirements:

- a. Hardness: ASTM D 1037, Janka Ball: >2875 psi (avg.)
- b. Flammability: ASTM E 648: Class I Interior Floor Finish rating per NFPA 101.
- c. Tensile Strength: ASTM D 3500: Minimum 14,570 psi (103.1 MPa) parallel to grain.
- d. Slip Resistance: ASTM D 2394: Static Friction Coefficient 0.562; Sliding Friction Coefficient 0.497 (can vary dependent if different coating is applied).

e. Moisture Content: ASTM D 4442, Oven Dry Method: 8.6 percent average (varies based on distribution point).

f. Formaldehyde Emissions: ASTM E 1333: 0.2 ppm avg. Phenol (No Urea Formaldehyde inclusion acceptable).

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

C. Nails, Staples or Cleats: Cleats tend to be the easier use of equipment with the denser Strandwoven material. Powernail is one such brand of Cleat Nailer.

1. 1-1/2 Inch (38 mm) Thick Subfloor: 2-inch nails, staples or cleats.
2. 3/4 Inch (19 mm) Thick Subfloor: 1-1/2-inch nails, staples or cleats
3. 1 inch Thick Plywood Subfloor Over Concrete: 1-1/4-inch (32 mm) nails, staples or cleats.

2.03 ACCESSORIES

A. Stair Treads: 298mm x 25mm x 1830mm (approx. 72" x 1" x 11-3/4 "). Specify color.

B. Stair Riser: 190mm x 14mm x 1830mm (approx. 72" x 9/16" x 7.5"). Specify color.

C. Stair Nosing: 1830mm x 92mm x 14mm (approx. 72" x 9/16"-1" x 3-7/8"). 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 1/2"). Specify color.

F. Reducer: 1830mm x 50mm x 15mm (approx. 72" x 2" x 9/16"). 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 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 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 TIMBER flooring will be installed.
 - b. Mark test location(s) on As-Built Drawings.

B. Verify that HVAC system is operational and maintains occupancy level temperature and humidity conditions.

C. If either of the above requires attendance, coordinate with the responsible entity to correct unsatisfactory conditions.

3.02 PREPARATION

A. Acclimatization: Open all boxes 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. Strandwoven TIMBER™ 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 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 sheets 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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