

CSI Spec. for InfusionWood™ Flooring (09640)

Prefinished InfusionWood™ 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 InfusionWood™ 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 InfusionWood™ 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, as required under installation guidelines.

1.06 WARRANTY

A. Special Warranty:

InfusionWood™ Structural Warranty: Residential structural warranty is **Lifetime** and light commercial structural warranty is **5 years** against delamination or separation as a result of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.

InfusionWood™ Light Commercial 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.

InfusionWood™ Residential Finish Warranty: **25 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.

PART 2 – PRODUCTS

2.01 MANUFACTURER/DISTRIBUTOR

- A. Sustainable Flooring
5403 Western Ave #C
Boulder, CO 80301

Tel: (303) 544-6076
Fax: (303) 447-0491
e-mail: info@sustainableflooring.com
Website: <http://www.sustainableflooring.com>

- B. Ionwood™ Plank Flooring:
1. Color

- a. InfusionWood™ **Maple**
- b. InfusionWood™ **Ivory Maple**
- c. InfusionWood™ **True Walnut**
- d. InfusionWood™ **Earth Walnut**
- e. InfusionWood™ **Weathered Walnut**
- f. InfusionWood™ **Grey Walnut**
- g. InfusionWood™ **Pewter Walnut**
- h. InfusionWood™ **Chocolate Walnut**

* 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. InfusionWood™ Flooring:

1. Size: 3/8" x 5" x RL (10"- 48" lengths)
2. Edge: Micro-beveled edges and ends.
3. Construction: Engineered on multi-ply substrate.
4. Finish: Aluminum-oxide imbedded urethane.
5. Physical Property Performance Requirements:
 - a. Compression Resistance:
 1. Maple (all versions) – effective JANKA hardness of 3,950 psi
 2. Walnut (all versions) – effective JANKA hardness of 2,400 psi
 - b. Abrasion Resistance Testing (as per modified ASTM D4060): withstands > 1000 cycles
 - c. Radiant Panel Critical Flux (as per ASTM E 648): ≥ 0.45 watts/cm² (Class 1)
 - d. Smoke Chamber/Specific Optical Smoke Density (as per ASTM E 662): ≤ 450.

- B. Installation Adhesive (if used): One-part moisture-cured urethane premium wood floor adhesive.

- C. Nails or Staples:

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

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 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 requires 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. InfusionWood™ 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). Inquire for InfusionWood™ 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 InfusionWood™ Care and 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:
Sustainable Flooring, Inc. (303) 544-6076 <http://www.sustainableflooring.com>