

SECTION 09650

PART I: GENERAL**1.1 RELATED DOCUMENTS**

- A. Bidding Requirements, Conditions of the Contract and portions of Division One of this Project Manual apply to this Section as though repeated herein.

1.2 WORK INCLUDED

- A. Shannon Specialty Floors, Inc. TUF STUF™ WOODLAND PATH Commercial Luxury Vinyl Plank flooring to be top set.

1.3 RELATED WORK

- A. Cast-in-place Concrete (Approved Underslab Vapor Barrier): Section 03300.
B. Resilient Flooring: Section 09650.

1.4 QUALITY ASSURANCE

- A. Provide each type of resilient flooring and accessories from a manufacturer, including recommended primers, adhesives, sealants, and leveling compounds.

1.5 SUBMITTALS

- A. Submit in accordance with Section 01300.
1. Manufacturer's technical data for each type of resilient flooring and accessory.
 2. Manufacturer's standard color chart in the form of actual selections of resilient flooring, including accessories, showing full range of colors and patterns available.
 3. Two copies of manufacturer's recommended maintenance practices for resilient flooring and accessories required.
 4. Jointing, Termination Details; Includes 8 ½" x 11" details indicating joint method, termination details including reducers.
 5. Moisture test and/or relative humidity test results using a Calcium Chloride Moisture Test to be submitted to the Flooring Distributor prior to delivery and installation of resilient flooring. A reading of three (3) pounds or less per 1000 square feet per 24 hours or a relative humidity reading of 75% is acceptable. If a concrete sealer was used, break bond past sealer for accurate reading.
 6. Concrete pH must be under 8.5. Perform test and submit results to Flooring Distributor.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to project site in manufacturer's original, unopened containers with labels indicating brand names, colors and patterns, and quality designations legible and intact.
B. Store and protect materials in accordance with manufacturer's recommendations. Planks should be stored **flat**.

1.7 PROJECT CONDITIONS

- A. Verify that an approved underslab vapor barrier has been installed under work of Section 03300. Concrete contractor shall not create holes in membrane. Repair holes as they appear.
B. Install only when substrate temperature is between 50° and 85°F. Permanent HVAC must have been set and operating at 65°F for a minimum of 72 hours prior to and 48 hours after installation with the product on site to permit thorough acclimation. HVAC must be maintained at a minimum temperature of 55°F and a maximum of 85°F thereafter as per the adhesive manufacturer's recommendations.
C. Store resilient flooring materials in spaces where they will be installed for at least 72 hours before beginning installation.
D. Install resilient flooring and accessories after other finishing operations, including painting, have been completed.

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- E. Do not install resilient flooring over concrete slabs until they have been cured and are sufficiently dry to achieve bond with adhesive as determined by resilient flooring manufacturer's recommended bond and moisture test. Concrete must be free of curing compounds or adhesives and have a compressive strength of 3500 psi or greater.
- F. Close areas to traffic and to other work until flooring is firmly set. Flooring shall have no foot traffic for 24 hours and no heavy fixtures or rolling carts are to be used on the floor for 72 hours. If traffic is necessary, cover floor with plywood.
- G. Where solvent based adhesives are used, provide safety, spark-proof fans when natural ventilation is not adequate.
- H. Subflooring must be dry.
- I. Floor covering should not be installed over expansion joints. Expansion joint covers compatible with floor covering should be used.
- J. Inspect substrate for any contamination, such as oil drippings, cutback adhesives, etc. Encapsulate contamination with an encapsulator before progressing with the installation of the floor covering. The use of solvent-based adhesive removers is NOT recommended. Mapei's Plan/Patch Plus and Ardex 15 are acceptable coverings. Self-leveling underlayments can have very high moisture contents and require longer curing times, some up to 10 days. Therefore, check moisture level with a Calcium Chloride test prior to installation.

1.8 EXTRA MATERIALS

Furnish one per cent (1%) for each color installed.

1.9 WARRANTY

Fifteen (15) year limited warranty commencing on date of substantial completion.

PART II: PRODUCTS

2.1 SHANNON SPECIALTY FLOORS, INC. – TUF STUF™ WOODLAND PATH LUXURY VINYL PLANK

A. Distributor and Importer:

Shannon Specialty Floors, Inc. 1005 S. 60TH Street, Milwaukee, WI 53214,
Toll Free: 800-522-9166

B. Installer: The installer shall be a certified installer. Call the distributor for certification Requirements.

C. Product Description and Physical Characteristics:

1. Woodland Path, **directional** wood-grained non-cushioned luxury vinyl plank.
2. Plank Size: 6" x 36"
3. Nominal Thickness: 1/8" (3.0mm) non-cushioned.
4. Test Results:
 - a. Wear Layer Gauge: ASTM F1303, 20 mils.
 - b. Wear Layer Composition: ASTM F1700-96, Class III, Type B. 75% Post-Consumer Recycled Content, 100% Recyclable After Use. Virgin PVC wear layer and two coats of TUFshield™.
 - c. Abrasion Resistance: ASTM D4060 34,000 cycles
 - d. Quality Control: ISO 9001: 2000
 - e. Environmental: ISO 14001: 2004
 - f. Smoke Developed Index: ASTM E84-13A, 400
 - g. Smoke Density: ASTM E662, Pass
 - h. Static Load Limit: ASTM F970 / 1,500 psi
 - i. Flexibility: ASTM F137 / Pass
 - j. Dimensional Stability: ASTM F2199 / Pass, Length: -.042 inches/ft. Width: -.014 inches/ft.
 - k. Slip Resistance: ASTM C1028 0.71 Dry / 0.63 Wet
 - l. Chair Castor Resistance: Phillips Roll Chair / 3.5 @ 20,000 cycles
 - m. CAL 1350 Emissions Testing: ASTM D5116, Meets CAL 1350
 - n. Chemical Resistance: ASTM F925, 24 hours, Excellent – No Change



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2.2 ACCESSORIES

- A. Adhesives: As recommended by flooring manufacturer to suit material and substrate conditions.
- B. Concrete Slab Primer: Non-staining type as recommended by flooring manufacturer.
- C. Patching, Leveling, Underlayment: Mastic Latex type equivalent to Camps latex underlayment.

PART III: EXECUTION

3.1 PRE-INSTALLATION

- A. Thoroughly inspect all material. Installed flooring found to be defective will not be covered by warranty & labor costs associated with removal & reinstallation will not be reimbursed. Contact your dealer/distributor immediately should a problem be discovered.
- B. 90% of all installation failures are moisture-related. All corresponding moisture tests must be performed & recorded prior to installation with results not to exceed the adhesive manufacturer's specifications. Should a claim situation occur, moisture test results must be furnished.

NOTE: *FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN VOIDING OF WARRANTY*

3.2 MATERIAL HANDLING

- A. Do not store Woodland Path Luxury Vinyl Planks on their sides or edges prior to installation. Cartons must remain flat during acclimation to insure proper dimensional stability during installation.
- B. Areas to receive flooring must be clean, fully-enclosed, well-lit & weather-tight to insure proper inspection during & after installation.
- C. Please check that all material is the same batch & lot number. Woodland Path Luxury Vinyl Planks take great measures to minimize shading variations but they can occur from time to time. Please mix & install individual pieces from different cartons should the lot numbers vary in order to minimize the appearance of variations.

3.3 SUBFLOOR PREPARATION

- A. The responsibility for determining subfloor suitability rests solely with the installer, regardless of qualifications.
- B. All subfloor material must be rigid, smooth, flat, level & permanently dry, clean & free of all foreign materials, including, but not limited to, dust, paint, grease, oils, solvents, cutting/parting compounds, sealers and residue from old adhesive unless specifically specified by adhesive manufacturer.
- C. Woodland Path Luxury Vinyl Planks recommend installation over concrete subfloors, however underlayment grade plywoods are also acceptable & must be of at least BC grade in order to comply with above requirements for subfloor condition. The lack of compressive strength of Luaun makes it an unacceptable underlayment.
- D. Non-shrinking, water-resistant Portland cementitious compounds are the only recommended patching compounds. Gypsum-based patches & compounds have not been approved by ASTM to accept resilient flooring, thus must be used at your own risk.
- E. Due to vast differences in moisture emissions requirements between adhesive manufacturers, moisture test results must not exceed the intended adhesive manufacturer's recommendations. Claims must specify both the moisture test results & the adhesive make & model for consideration.

3.4 INSTALLATION

- A. Prepare all rules, cutters, adhesives, trowels/spreaders & compass dividers before commencing work.
- B. For best appearance, please find the center of the floor by marking vertical & horizontal lines across the floors at the center of the walls. Measure the squareness of the marked lines, and then begin to work from the center outwards, leaving a 0.12" expansion gap along the perimeter between the flooring & walls.
- C. Be sure to follow recommended working times from the adhesive manufacturer, often for porous surfaces, along with all equipment recommendations, such as trowel notch-size. Do not spread more adhesive than can be installed within the recommended working time.

3.5 ADHESIVE

- A. Use adhesives recommended by flooring manufacturer to suit material and substrate conditions.



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3.6 PREPARATION FOR INITIAL MAINTENANCE

1. Sweep and vacuum any loose dirt, dust or other foreign materials to remove destructive grit and construction debris.
2. Wait at least 5 days after installation so the adhesive can cure.
3. Before beginning, read all safety warnings and wear appropriate protective gear.
4. **Step 1:** Mix a solution of water and a neutral detergent.
Step 2: Mop the solution on the floor so it is thoroughly wet. Wait 5 to 10 minutes to allow it to loosen up any foreign materials and existing factory finish. Scrub the solution with a floor machine to completely remove any dirt or film. Remove the residue with a mop or auto-scrubber using a red scrub pad or a non-abrasive nylon brush. It is imperative that the initial post-installation cleaning is thorough and aggressive in order to restore the intended appearance of the flooring.
Step 3: Rinse the floor thoroughly with clean water again to remove all excess water. An auto-scrubber can be used. Under no circumstances should the floor ever be flooded with either cleaning solution or rinse water. Take measures to use as little water as possible as topical moisture can damage an installation.
5. **Refer to Woodland Path's Maintenance Instructions for more detailed information.**

3.7 PROTECTION

- A. Protect Woodland Path Luxury Vinyl Planks against damage during construction period to comply with manufacturer's directions. Keep furniture off the floor for 24 hrs. Do not allow rolling carts to be used on the floor for at least 72 hrs.



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