

SECTION 09 65 19
RESILIENT TILE FLOORING

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes

1. Resilient Tile Flooring
2. Installation Accessories
 - a. Adhesives
 - b. Finishes & Cleaners

B. Related Requirements

1. Section 01 30 00, Administrative Requirements
2. Section 01 45 00, Quality Control
3. Section 01 71 00, Examination and Preparation
4. Section 01 73 00, Execution
5. Section 01 74 00, Cleaning and Waste Management
6. Section 01 78 00, Closeout Submittals
7. Section 07 92 00, Joint Sealants
8. Section 07 95 13, Expansion Joint Cover Assemblies

1.02 REFERENCE

A. Organizations

1. American Institute of Architects, The (AIA) - www.aia.org
2. American National Standards Institute (ANSI) - www.ansi.org
3. APA-The Engineered Wood Association - www.apawood.org
4. ASTM International - www.astm.org
5. California Department of Public Health (CDPH) - <https://www.cdph.ca.gov/>
6. Connecticut Fund for the Environment and Save the Sound - www.ctenvironment.org/
7. Electrostatic Discharge Association (ESDA) - www.esda.org/
8. Health Product Declaration Collaborative (HPDC) - www.hpd-collaborative.org
9. International Code Council (ICC) - www.iccsafe.org
10. International Living Future Institute (ILFI) - living-future.org
11. International WELL Building Institute (IWBI) - www.wellcertified.com
12. mindful Materials (mM) - www.mindfulmaterials.com
13. National Fire Protection Association (NFPA) - www.nfpa.org
14. Resilient Floor Covering Institute (RFCI) - rfci.com
15. SCS Global Services - www.scsglobalservices.com
16. South Coast Air Quality Management District (SCAQMD) - www.aqmd.gov
17. U.S. Consumer Product Safety Commission (CPSC) - www.cpsc.gov
18. U.S. Green Building Council (USGBC) - www.usgbc.org
19. Women in Sustainability Leadership Awards (WSLA) - www.wsla.global

B. Standards

1. ANSI/ESD STM97.2 - Floor Materials and Footwear - Voltage Measurement In Combination With A Person
2. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
3. ASTM D2047 - Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine
4. ASTM D7823 - Standard Test Method for Determination of Low-Level Phthalates in Poly (Vinyl Chloride) Plastics by Thermal Desorption-Gas Chromatography/Mass Spectrometry
5. ASTM E648/NFPA 253 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
6. ASTM E662/NFPA 258 - Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
7. ASTM F1514 - Standard Test Method for Measuring Heat Stability of Resilient Flooring by Color Change

8. ASTM F1515 - Standard Test Method for Measuring Light Stability of Resilient Flooring by Color Change
9. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
10. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
11. ASTM F386 - Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces
12. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
13. ASTM F925 - Standard Test Method for Resistance to Chemicals of Resilient Flooring
14. ASTM F963 - Standard Consumer Safety Specification for Toy Safety (see Table 1 for permissible heavy metal content levels). Note - while this standard applies to toys, flooring manufacturers (including Teknoflor) have adopted similar/same limits for their products
15. CDPH Standard Method v1.2-2017 - Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers
16. CPSC-CH-C1001-09.4 - Standard Operating Procedure for Determination of Phthalates (Per U.S. Consumer Product Safety Commission)
17. CPSIA (Consumer Product Safety Improvement Act) - U.S. law passed in August 2008 that, amongst other things, imposed new testing and documentation requirements, and set new acceptable levels for several substances (including phthalates). While such limitations were not set on flooring products, many such manufacturers (including Teknoflor) have adopted same/similar limits for their products.
18. FloorScore® - an indoor air quality (IAQ) certification standard for hard surface flooring materials, adhesives, and underlayments. Developed by SCS Global Services and the RFCI, it qualifies for many green building schemes - including LEED and WELL.
19. International Building Code (IBC) - the International Building Code (IBC) is a model building code developed by the International Code Council (ICC) that been adopted for use as a base code standard by most jurisdictions in the United States. The code provisions are intended to protect public health and safety while avoiding both unnecessary costs and preferential treatment of specific materials or methods of construction.
20. LEED (Leadership in Energy & Environmental Design) - Green building certification program developed and maintained by the U.S. Green Building Council (USGBC)
21. NFPA 101 Life Safety Code - The Life Safety Code, which is also known as NFPA 101, is currently used within every U.S. state, with statewide adoption taking place across 43 states. The current version of this standard addresses the minimum building design, construction, operation, and maintenance guidelines necessary for limiting the danger to life brought on by fire, smoke, heat, and toxic fumes.
22. SCAQMD 1168 - South Coast Air Quality Management District Rule No. 1168; VOC (Volatile Organic Compound) emissions of adhesives and sealant applications
23. WELL - Green building certification program developed and maintained by the International WELL Building Institute (IWBI)

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data
 1. Technical Data
 2. Installation & Maintenance
 3. Warranty
 4. Safety Data Sheets (SDS) for accessories
 5. LEED v4.1 Submittals
- C. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
- D. Verification Samples: Submit two samples, 4 inches x 4 inches (101 mm x 101 mm) in size, illustrating color and pattern for each resilient flooring product specified.

1.04 QUALITY ASSURANCE

- A. Comply with applicable laws and possess valid licenses, registrations, and/or certificates required by federal law, including but not limited to licenses, registrations, and/or certificates required to:
 - 1. Conduct business in the designated locale.
 - 2. Perform the contract work it seeks to perform.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than ten years of documented experience.
- C. Installer Qualifications: Professional-flooring contractors showing successful installations of chlorine-free flooring in similar size and scope. **Provide technical certifications, qualifications and resources, including equipment, personnel and financial resources, to perform the referenced contract.**

1.05 WARRANTY

- A. See Section 01 78 00, Closeout Submittals, for additional warranty requirements.
- B. Nature's Plank & Tile HPD - 12-Year Commercial / 20-Year Residential Limited Warranty. Refer to warranty document for more details.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Upon receipt, immediately remove any shrink-wrap and check material for damage, and that the material is of the correct style, color, quantity, and run number(s).
- B. General Storage
 - 1. Store all materials flat and off of the floor in an acclimatized, weather-tight space between 65°-85°F (18°-29°C).
 - 2. Do not double stack pallets.

1.07 FIELD CONDITIONS

- A. Acclimate material at the jobsite between 65°-85°F (18°-29°C) and 35%-85% RH for a minimum of 48 hours prior to installation. Temperature and relative humidity should also be maintained at the same levels during installation, and after installation.
- B. Spread unopened cartons no more than 6 cartons high and at least 4 inches (101 mm) apart.
- C. Keep away from heating and cooling ducts and direct sunlight.
- D. If permanent HVAC is not operational, temporary means should be used to maintain the recommended temperature and relative humidity levels.
- E. Close areas to traffic during installation of flooring and accessories.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Teknoflor
 - 1. Address: 1005 South 60th Street, Milwaukee, WI 53214, United States.
 - 2. Contact: To find the Teknoflor Sales Representative that services your area, please visit <https://www.teknoflor.com/sales>.
- B. Substitutions: Not permitted

2.02 RESILIENT TILE FLOORING

- A. Teknoflor Nature's Plank & Tile HPD - Organic Polyurethane Flooring
 - 1. Substitutions: Not permitted
- B. Patterns (**Note to Specifier: List by Pattern Number and include the Collection Name, Pattern Name, Size & Emboss associated with each Pattern Number**).
 - 1.
 - 2.
 - 3.
- C. Physical Properties:
 - 1. Construction: Solid Plank & Tile - Chlorine-Free, Phthalate-Free, Formaldehyde-Free, Free of Halogenated Flame Retardants, Free of Antimicrobials
 - 2. Wear Layer Thickness: 10 mil. (0.25 mm)
 - 3. Total Thickness (Gauge): 2.5 mm (0.098 inch)

- D. Manufacturing, Performance, and Safety Standards
1. ASTM D2047, Coefficient of Friction / Slip Resistance - ≥ 0.55 (Neolite, Dry)
 2. ASTM D7823/CPSC-CH-C1001-09.4, Phthalates - Per CPSIA: $\leq 0.1\%$ per Substance
 3. ASTM E648 / NFPA 253, Critical Radiant Flux (Radiant Panel) - Class I per International Building Code (IBC) & NFPA 101 Life Safety Code
 4. ASTM E662 / NFPA 258, Smoke Density (Flaming & Non-Flaming) - ≤ 450
 5. ASTM F386, Thickness - Passes Requirements
 6. ASTM F925, Chemical Resistance - Passes Requirements
 7. ASTM F963 (Table 1), Heavy Metals - Passes Requirements
 8. ASTM F1514, Resistance to Heat - Passes Requirements
 9. ASTM F1515, Resistance to Light - Passes Requirements
 10. ANSI/ESD STM97.2, Body Voltage - Average (Abs): 3.0 kV
 11. CDPH Standard Method v1.2-2017, VOC/TVOCs & Formaldehyde - Passes Requirements
 12. ISO 4918, Castor Chair - No Effect
 13. REACH SVHC (209 Substances) - None Detected
- E. Sustainability and Affiliations:
1. Product Sustainability:
 - a. FloorScore®: Teknoflor flooring products are FloorScore® Certified by SCS Global Services and thus comply with CDPH Standard Method v1.2-2017.
 - b. LEED v4.1 - Contributions Towards Certification:
 - 1) MR Prerequisite, Construction & Demolition Waste Management Planning: Nature's Plank & Tile HPD products fall under Teknoflor's Reclamation Program, which is designed to aid architects, designers, and builders in preparation of their construction waste management plan.
 - 2) MR Credit, Building Product Disclosure and Optimization - Environmental Product Declarations (Option 1): Product-specific Type III EPD is available for Nature's Plank & Tile HPD.
 - 3) MR Credit, Building Product Disclosure and Optimization - Material Ingredient Reporting (Option 1): Nature's Plank & Tile HPD products are Cradle to Cradle Certified™ under standard version 3.1 at the Silver level.
 - 4) MR Credit, Building Product Disclosure and Optimization - Material Ingredient Optimization (Option 2): Nature's Plank & Tile HPD products are Cradle to Cradle Certified™ under standard version 3.1 at the Silver level (valued at 1.5 products).
 - 5) MR Credit, Construction & Demolition Waste Management (Option 1): Nature's Plank & Tile HPD products fall under Teknoflor's Reclamation Program, which provides an avenue for the take-back of flooring (scraps / unused product) during the construction process, thus diverting unused material from landfills.
 - 6) EQ Credit, Low-Emitting Materials (Flooring): Nature's Plank & Tile HPD products are FloorScore® Certified and thus meets the requirements of CDPH Standard Method v1.2-2017.
 - c. The WELL Building Standard v2 - Contributions Towards Certification:
 - 1) Materials Concept - Feature X01 (Material Restrictions), Part 1(a) - Restrict Asbestos: Nature's Plank & Tile HPD do not contain asbestos and thus comply with this prerequisite for resilient flooring.
 - 2) Materials Concept - Feature X05 (Enhanced Material Restrictions), Part 2(a) - Select Compliant Architectural and Interior Products: Nature's Plank & Tile HPD do not contain halogenated flame retardants, PFAs, or ortho-phthalates.
 - 3) Materials Concept - Feature X06 (VOC Restrictions), Part 2(a) - Restrict VOC Emissions from Furniture, Architectural and Interior Products: Nature's Plank & Tile HPD are FloorScore® Certified and thus meet the requirements of CDPH Standard Method v1.2-2017.
 - 4) Materials Concept - Feature X07 (Materials Transparency), Part 1(c) - Select Products with Disclosed Ingredients: Nature's Plank & Tile HPD are Cradle to Cradle Certified™.

- 5) Materials Concept - Feature X07 (Materials Transparency), Part 3(a)(b) - Select Products with Third-Party Verified Ingredients: Nature's Plank & Tile HPD are Cradle to Cradle Certified™.
 - 6) Materials Concept - Feature X08 (Materials Optimization), Part 1(a)(b) - Select Materials with Enhanced Chemical Restrictions: Nature's Plank & Tile HPD are Cradle to Cradle Certified™ and thus meet the chemical thresholds in the Cradle to Cradle Basic Level Restricted Substances List, version 4 (published 2020).
 - 7) Materials Concept - Feature X08 (Materials Optimization), Part 2(a) - Select Optimized Products: Nature's Plank & Tile HPD are Cradle to Cradle Certified™ at the Silver level.
2. Affiliations - Member Bodies and/or Sponsorships (Direct and/or through HMTX Industries, our parent company):
 - a. American Institute of Architects, The (AIA)
 - b. ASTM International
 - c. Connecticut Fund for the Environment and Save the Sound
 - d. Health Product Declaration Collaborative (HPDC)
 - e. International Living Future Institute (ILFI)
 - f. mindful MATERIALS (mM)
 - g. Resilient Floor Covering Institute (RFCI)
 - h. U.S. Green Building Council (USGBC)
 - i. Women in Sustainability Leadership Awards (WSLA)

2.03 ACCESSORIES

A. Adhesives

1. Contact Technical Services for full details on the recommended adhesive(s) to use for installation.
2. Substitutions: Not permitted
3. Sustainability
 - a. FloorScore® / SCAQMD 1168: TEK Five v2 and TEK One - the adhesives recommended for use with Nature's Plank & Tile HPD - are FloorScore® certified by SCS Global Services and have thus been found to comply with CDPH Standard Method v1.2-2017 and SCAQMD Rule No. 1168.
 - b. LEED v4.1 - Contributions Towards Certification:
 - 1) MR Credit, Building Product Disclosure and Optimization - Material Ingredient Reporting (Option 1): TEK Five v2 and TEK One have received Cradle to Cradle Material Health Certificates under standard version 3.1 at the Bronze and Silver levels, respectively.
 - 2) MR Credit, Building Product Disclosure and Optimization - Material Ingredient Optimization (Option 2): TEK Five v2 and TEK One have received Cradle to Cradle Material Health Certificates under standard version 3.1 at the Bronze and Silver levels, respectively (and are thus valued at 1 product and 1.5 products, respectively).
 - 3) EQ Credit, Low-Emitting Materials (Adhesives & Sealants): TEK Five v2 and TEK One - the adhesives recommended for use with Nature's Plank & Tile HPD - are FloorScore® certified.
 - c. The WELL Building Standard v2 - Contributions Towards Certification:
 - 1) Materials Concept - Feature X06 (VOC Restrictions), Part 1(a)(b) - Limit VOCs from Wet-Applied Products: TEK Five v2 and TEK One - the adhesives recommended for use with Nature's Plank & Tile HPD - are FloorScore® Certified and thus meet the requirements of SCAQMD Rule 1168 and CDPH Standard Method v1.2-2017.
 - 2) Materials Concept - Feature X07 (Materials Transparency), Part 1(c) - Select Products with Disclosed Ingredients: TEK Five v2 and TEK One have received Cradle to Cradle Material Health Certificates.

- 3) Materials Concept - Feature X07 (Materials Transparency), Part 3(a)(b) - Select Products with Third-Party Verified Ingredients: TEK Five v2 and TEK One have received Cradle to Cradle Material Health Certificates.
 - 4) Materials Concept - Feature X08 (Materials Optimization), Part 1(a)(b) - Select Materials with Enhanced Chemical Restrictions: TEK Five v2 and TEK One have received Cradle to Cradle Material Health Certificates and thus meet the chemical thresholds in the Cradle to Cradle Basic Level Restricted Substances List, version 4 (published 2020).
 - 5) Materials Concept - Feature X08 (Materials Optimization), Part 2(a) - Select Optimized Products: TEK One has received a Cradle to Cradle Material Health Certificate at the Silver level.
- B. Finishes & Cleaners
1. Contact Technical Services for full details on the recommended finishes & cleaners.
 2. Substitutions: Not permitted.

PART 3 EXECUTION

3.01 EXAMINATION PER SECTION 01 71 00 AND AS FOLLOWS:

- A. Install flooring and accessories after other operations (including painting) have been completed.
- B. Acceptance of Conditions: Carefully examine all installation areas with Installer/Applicator present, for compliance with requirements affecting Work performance.
 1. Verify that field measurements, product, adhesives, substrates, surfaces, structural support, tolerances, levelness, temperature, humidity, moisture content level, pH, cleanliness and other conditions are as required by the manufacturer, and ready to receive Work.
- C. Verify that substrate is contaminant-free (including old adhesives and abatement chemicals).
- D. Test substrates as required by manufacturer to verify proper conditions exist.

Note to Specifier: Coordinate and edit requirements to the project substrates present.

 1. **Concrete:**
 - a. Check for concrete additives such as fly ash, curing compounds, hardeners, or other surface treatments that may prevent proper bonding of floor coverings.
 - b. Moisture testing: Perform either the In-Situ Relative Humidity (RH) test (ASTM F2170) or Moisture Vapor Emission Rate (MVER) test (ASTM F1869). NOTE: Contact Technical Services for the maximum allowable substrate moisture content. Substrates above the maximum allowable moisture content will require a moisture mitigation system.
 - c. Perform alkalinity testing per ASTM F710 to verify pH level is between 7 and 10.
 - d. Check substrate for absorbency per manufacturer's recommendations.
 - e. Perform bond testing per ASTM F710 to determine compatibility of adhesive to concrete substrate.
 2. **Wood:**
 - a. Shall be dry, clean, structurally sound and installed per underlayment manufacturer's installation instructions.
 - b. Test wood subfloors and underlayment panels using a suitable wood moisture pin-meter. Readings between the subfloor and underlayment panels should be within 3% prior to installing the underlayment panels.
 - c. The maximum moisture content is 14%.
 - d. Proceed with installation only after satisfactory conditions have been met.
- E. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

- A. Prior to installation, the flooring installer should plan and attend an on-site construction meeting with the General Contractor, Architect and Property Owner to review all requirements and inspect site conditions as outlined in the manufacturer's installation document, as well as to review the requirements of ASTM F710 and any relevant building codes, or local, state, or national regulations.

- B. Flooring installation should not begin until all site conditions have been assessed, testing has been completed and subfloor conditions have been approved.
- C. Prepare per manufacturer's written instructions, SECTION 01 71 00, and as follows:
 - 1. Prepare substrates to ensure proper adhesion of Luxury Vinyl Plank & Tile.
 - 2. **Concrete Substrates:** Prepare substrate per ASTM F710.
 - a. Verify that subfloor is clean, flat, smooth, free of dirt, rust, paint, oil, wax or any contaminant that will interfere with adhesive bonding.
 - b. Mechanically remove substrate coatings that are not compatible with adhesives, such as sealers, curing, hardening or parting compounds, soap, wax, oil, etc.
 - 1) Do not use solvents or adhesive removers.
 - c. Expansion joints, isolation joints, or other moving joints must be honored and must not be filled with underlayment products or other materials, and floor coverings must not be laid over them. Expansion joint covering systems should be detailed by the architect or engineer, and based upon intended usage and aesthetic considerations.
 - d. Surface cracks, grooves, depressions, control joints or other non-moving joints, and other irregularities shall be filled or smoothed with high-quality Portland Cement or Calcium Aluminate based patching or underlayment compound for filling or smoothing, or both.
 - 1) Do **NOT** skim-coat large areas with patching compound, especially slick power-troweled surfaces.
 - 2) Sand smooth per manufacturer's instructions.
 - e. Slick surfaces, such as power-troweled concrete, shall be profiled as needed to allow for a mechanical bond between the adhesive and subfloor.
 - 1) Do **NOT** use gypsum-based underlayment products and do not skim coat concrete subfloors.
 - f. Self-leveling underlayments: provide a dry and smoothly-sanded underlayment substrate ready for installation of Luxury Vinyl Plank & Tile. Underlayment compound shall be moisture-resistant, mildew-resistant, and alkali-resistant and must have a minimum of 3,000 psi compressive strength or greater per ASTM C109/C109M.
 - g. Lightweight concrete shall have a compressive strength greater than 90 lbs. per cubic foot with compression strength of 2,500 psi or greater.
 - 3. **Wood Substrates or Panel Type Underlayment:**
 - a. Wood subfloors require an underlayment (double layer construction) with a minimum total thickness of 1 inch (25 mm) and minimum of 18 inches (457 mm) of well-ventilated space beneath.
 - 1) Crawl spaces shall be insulated and protected by a vapor barrier.
 - b. Use minimum 0.25 inch (6 mm) thick APA-rated "underlayment grade" plywood with a fully sanded face or other underlayment panel that is appropriate for the intended usage. Install and prepare panels and seams according to the manufacturer's instructions.
 - 4. **Existing and other substrates:**
 - a. Contact Technical Services, as special conditions may exist.

3.03 INSTALLATION

- A. Installation per manufacturer's written instructions, SECTION 01 73 00, and as follows:
 - 1. Layout shall be specified by Architect, Designer, or End User.
 - 2. Follow layout and ensure installation reference lines are square.
 - 3. Field tiles shall be installed with directional arrows on back aligned in the same direction, or may be installed in quarter-turned fashion.
 - 4. Check cartons for and do **NOT** mix run numbers.
 - 5. Expansion joints: locate expansion, isolation, and other moving joints prior to installation.
 - a. Do not fill expansion, isolation, and other moving joints with patching compound nor cover with resilient flooring.
 - b. Install movement joint systems per manufacturer's instructions and per SECTION 07 95 13 and SECTION 07 92 00.

6. Adhesives: adhere flooring to substrate using the full spread method resulting in a completed installation without gaps, voids, raised edges, bubbles or any other surface imperfections.
 - a. Select appropriate adhesive, trowel and follow manufacturer's instructions.
 - b. Periodically spot-check transfer of adhesive to back of plank or tile during installation.
 - c. Roll floor with a 100 lbs. roller to ensure proper transfer of adhesive and bonding.
 - d. Protect floor from traffic per manufacturer's instructions.
 - e. Do not wet mop floor until the adhesive has properly set per written instructions.

3.04 FIELD QUALITY CONTROL

- A. Site tests and Inspections per SECTION 01 45 00 and as follows:
 1. Inspect flooring installation for non-conforming work, including (but not limited to) the following:
 - a. Lack of adhesion;
 - b. Bubbles, loose planks/tiles or raised edges;
 - c. Dirt and debris underneath flooring;
 - d. Excessive gaps;
 - e. Improper substrate preparation (as indicated by telegraphing);
 - f. Damage to planks/tiles, including: dents/indentations, cuts, cracks, burns or punctures.
- B. Non-conforming work per General Conditions and as follows:
 1. Repair or replace damaged material if not acceptable to the Architect.

3.05 CLEANING

- A. Waste Management per SECTION 01 74 00.
- B. Provide Progress Cleaning per manufacturer's written instructions, SECTION 01 74 00, and as follows:
 1. Work Areas: clean areas where work is in progress to the level of cleanliness necessary for proper execution of the work.
 - a. Clean and protect completed construction until Substantial Completion.
 - b. During installation, remove wet adhesive from surface of flooring per manufacturer's instructions.
 2. Site: Maintain project site free of waste materials and debris.
- C. Provide Final Cleaning immediately prior to Substantial Completion inspection per manufacturer's written instructions and SECTION 01 74 00.
 1. Protection: remove manufacturer's and other installed protection immediately prior to Substantial Completion inspection, unless required otherwise.
 2. Clean floor with a neutral 6-8 pH cleaner.

3.06 MAINTENANCE

- A. Initial maintenance per flooring manufacturer's written instructions and as follows:
 1. Allow the adhesive to cure for at least 48 hours prior to wet cleaning the floor.
 2. Sweep, dust mop or vacuum the floor thoroughly to remove all loose dirt, dust, grit and debris. Do not use vacuums with a beater bar assembly.
 3. Remove any dried adhesive residue from the surface with mineral spirits applied to a clean, lint-free cloth.
 4. Damp mop the floor using a Cleaner recommended by the flooring Manufacturer.
 5. If necessary, scrub the floor using an auto scrubber or rotary machine (300 rpm or less) with a Cleaner recommended by the flooring Manufacturer... using the proper dilution ratio and the appropriate scrubbing brush or pad.
 6. Thoroughly rinse the entire floor with fresh, clean water. Remove the dirty residue with a wet-vacuum or clean mop and allow the floor to dry completely.

3.07 PROTECTION

- A. Protect materials from construction operations until date of Final Completion or Owner occupancy, whichever occurs first.
 1. Protect finished floor from abuse and damage by using heavy, non-staining kraft paper, drop cloths, or equivalent. Use additional, non-damaging protective materials, as needed.
 2. Light foot traffic on a newly installed floor can be permitted after 24 hours.

3. Keep heavy traffic and rolling loads off the newly installed LVT flooring for 48 hours. Protect the floor from rolling loads by covering with protective boards.

END OF SECTION