

SECTION 09 65 19
RESILIENT TILE FLOORING

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes

1. Resilient Tile Flooring
2. Installation Accessories
 - a. T-Moldings and Transition Profiles
 - b. 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 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 cleaners
 5. LEED v4.1 Submittals
 6. Health Product Declaration (HPD) v2.1.1 (or newer) and/or Declare Label
- 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.

1.03 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 LVT installations in similar size and scope. **Provide technical certifications, qualifications and resources, including equipment, personnel and financial resources, to perform the referenced contract.**

1.04 WARRANTY

- A. See Section 01 78 00, Closeout Submittals, for additional warranty requirements.
- B. Aspecta™ CONTOURS Warranty - 20-Year Limited Non-Prorated Commercial Material Warranty. Coverage includes:
 1. 100% Cost of Material for the entire duration of Warranty (20 Years).
 2. Pro-Rated Cost of Labor (Fair-Market Value) for the first 10 Years.
 3. One-Time Transferability of Warranty.

1.05 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 50°-100°F (10°-38°C).
 - 2. Do not double stack pallets.

1.06 FIELD CONDITIONS

- A. Acclimate material at the jobsite between 50°-100°F (10°-38°C) and 40%-60% 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. Aspecta North America (Aspecta NA)
 - 1. Address: 15 Oakwood Avenue, Norwalk, CT 06850, United States.
 - 2. Contact: To find the Aspecta Commercial Sales Manager that services your area – visit <https://www.aspecta flooring.com> and click-on the "Find a Rep" link in the upper right-hand corner.
- B. Substitutions: Not permitted

2.02 RESILIENT TILE FLOORING

- A. Aspecta™ CONTOURS - Floating Multilayer Modular Flooring Plank
 - 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.
 - 4.
- C. Physical Properties:
 - 1. Construction: WPC Rigid Core Multilayer Modular Plank - Phthalate-Free, Formaldehyde-Free, and made from 100% Virgin Vinyl
 - 2. Wear Layer Thickness: 0.55 mm (22 mil)
 - 3. Total Thickness (Gauge): 8.0 mm (0.315 in)
 - 4. Finish: Duraspect™ Surface Protectant
- D. Manufacturing, Performance, and Safety Standards
 - 1. ASTM F3261, Rigid Core Floor Specification - Passes Requirements
 - 2. ASTM F2421, Size & Squareness - Passes Requirements
 - 3. ASTM F387, Thickness - Passes Requirements
 - 4. ASTM F410, Wear Layer Thickness - Passes Requirements for Commercial Classification
 - 5. ISO 24337, Geometrical Characteristics (Flatness, Openings, Ledging) - Passes Requirements
 - 6. ISO 23999, Dimensional Stability - Passes Requirements
 - 7. ISO 23999, Curling - Passes Requirements
 - 8. ASTM F1914, Residual Indentation - Passes Requirements
 - 9. ASTM F1914, Surface Integrity - Passes Requirements
 - 10. ASTM F970, Static Load - Passes Requirements (≥ 500 psi)
 - 11. ASTM F925, Chemical Resistance - Passes Requirements
 - 12. ASTM F1514, Resistance to Heat - Passes Requirements
 - 13. ASTM F1515, Resistance to Light - Passes Requirements
 - 14. ASTM E90 & ASTM E413, Sound Transmission Class (STC)
 - a. 6 in. Concrete Slab: STC 50

- b. 6 in. Concrete Slab + Drop-Ceiling: STC 61
 - 15. ASTM E492 & ASTM E989, Impact Insulation Class (IIC)
 - a. 6 in. Concrete Slab: IIC 54
 - b. 6 in. Concrete Slab + Drop-Ceiling: IIC 67
 - 16. ASTM E2179 & ASTM E492, Delta Impact Insulation Class (Δ IIC)
 - a. 6 in. Concrete Slab: Δ IIC 25
 - b. 6 in. Concrete Slab + Drop-Ceiling: Not Applicable
 - 17. ASTM E648 / NFPA 253, Critical Radiant Flux (Radiant Panel) - Class I per International Building Code (IBC) 2018 & NFPA 101 Life Safety Code
 - 18. ASTM E662 / NFPA 258, Smoke Density (Flaming & Non-Flaming) - ≤ 450
 - 19. ASTM D2047, Coefficient of Friction / Slip Resistance - ≥ 0.6 (Dry)
 - 20. ANSI/ESD STM97.2, Body Voltage - Average (Abs) 1.3kV
 - 21. CDPH Standard Method v1.2-2017, VOC/TVOCs & Formaldehyde - Passes Requirements
 - 22. ASTM D7823/CPSC-CH-C1001-09.3, Phthalates - Per CPSIA: $\leq 0.1\%$ per Substance
 - 23. ASTM F963 (Table 1), Heavy Metals - Passes Requirements
- E. Sustainability and Affiliations:
- 1. Product Sustainability:
 - a. FloorScore® (complies with CDPH Standard Method v1.2-2017).
 - b. LEED v4.1 - Potential Contributions Towards Certification:
 - 1) MR Credit, Building Product Disclosure and Optimization - Environmental Product Declarations (Option 1).
 - 2) MR Credit, Building Product Disclosure and Optimization - Material Ingredients (Option 1).
 - 3) EQ Credit, Low-Emitting Materials (Flooring).
 - c. The WELL Building Standard v2 - Potential Contributions Towards Certification:
 - 1) Materials Concept - Feature X01 (Fundamental Material Precautions), Part 1(c) - Restrict Asbestos.
 - 2) Materials Concept - Feature X01 (Fundamental Material Precautions), Part 3(b) - Restrict Lead.
 - 3) Materials Concept - Feature X10 (Volatile Compound Reduction), Part 1(a) - Manage Volatile Organic Compounds.
 - 4) Materials Concept - Feature X10 (Volatile Compound Reduction), Part 2(a) - Manage Semi-Volatile Organic Compounds (SVOCs).
 - 5) Materials Concept - Feature X11 (Long-Term Emissions Control), Part 2(a) - Manage Flooring and Insulation Emissions.
 - 6) Materials Concept - Feature X14 (Material Transparency), Parts 1(a)(b) - Promote Ingredient Disclosure - Material Information.
 - 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. Flooring Contractors Association (FCICA)
 - e. Health Product Declaration Collaborative (HPDC)
 - f. International Living Future Institute (ILFI)
 - g. International Standards and Training Alliance (INSTALL)
 - h. mindful MATERIALS (mM)
 - i. North American Association of Floor Covering Distributors (NAFCD)
 - j. Resilient Floor Covering Institute (RFCI)
 - k. U.S. Green Building Council (USGBC)
 - l. Women in Sustainability Leadership Awards (WSLA)
 - m. World Floor Covering Association (WFCA)

2.03 ACCESSORIES

- A. T-Moldings and Transition Profiles

1. Contact the manufacturer for more information on the recommended T-Moldings and Transition Profiles.
 2. Substitutions: Not permitted
- B. Cleaners
1. Refer to the Aspecta CONTOURS Professional Installation Manual for full details on the recommended Prevail® 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, substrates, surfaces, structural support, tolerances, flatness, 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. Refer to standard version of this specification for requirements per substrate, including:

 1. **Concrete**
 2. **Wood**
- 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 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 in strict accordance to the Aspecta installation instructions.
 2. **Concrete Substrates:** Prepare substrate per the manufacturer's professional installation guide.
 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.
 - 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. Refer to manufacturer's professional installation guide and or contact manufacturer, 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. Required in rooms greater than 100 feet (30.5 meters) in either direction:
 - a. Install T-Moldings per manufacturer's written instructions and SECTION 01 73 00.
 4. Install other transition profiles (as needed) per manufacturer's written instructions.
 - a. Reducers, End Moldings, and Stair Moldings are also available for Aspecta CONTOURS (in addition to T-Moldings).

5. Check cartons for and do **NOT** mix run numbers.
6. Expansion joints: locate expansion, isolation, and other moving joints prior to installation. Ensure there are no height variations from one side of the joint or crack to the other.

3.04 FIELD QUALITY CONTROL

- A. Site tests and Inspections per SECTION 01 45 00 and as follows:
 1. Ensure that the Aspecta COUNTOURS flooring is not glued, nailed, or fastened to the substrate, walls or fixed to any part of the building structure.
 2. Inspect flooring installation for non-conforming work, including (but not limited to) the following:
 - a. Improper expansion space around walls, fixtures, cabinets and vertical objects;
 - b. Improper usage and/or placement of T-moldings;
 - c. Improper usage and/or placement of transition profiles;
 - d. Humps, bumps underneath the flooring;
 - e. Improper substrate preparation (as indicated by vertical deflection of installed material);
 - 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.
- C. Provide Final Cleaning immediately prior to Substantial Completion inspection per manufacturer's written instructions and SECTION 01 74 00.

3.06 MAINTENANCE

- A. Initial maintenance per flooring manufacturer's written instructions.

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. Protect the floor from rolling loads by covering with protective boards.

END OF SECTION