

MASTER SPECIFICATION

DIVISION 09 - FINISHES

SECTION 09 62 00 RESILIENT SHEET FLOORING and

SECTION 09 65 19 RESILIENT TILE FLOORING

wineo PURline by Mats Inc.

This document is provided to assist in the preparation of a Project or Master Specification and has been formatted in accordance with the Construction Specifications Institute (CSI)'s MasterFormat®.

PART 1 - GENERAL

GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of this Section of the Specifications.

DESCRIPTION OF WORK

- B. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
1. Resilient tile flooring for commercial traffic.
 2. Resilient sheet flooring for commercial traffic.
 3. Substrate preparation.
- C. Related Work: The following items are not included in this Section and are specified under the designated Sections:
1. Section 03 30 00 CAST-IN-PLACE CONCRETE for concrete substrate; slab surface tolerances; vapor retarder for applications on or below grade; requirement for 83/90 degree riser and tread edge angle for stair tread and nosing.
 2. Section 05 51 00 METAL STAIRS AND RAILINGS; requirement for 83/90 degree riser and tread edge angle for stair tread and nosing.
 3. Section 06 10 00 ROUGH CARPENTRY for plywood substrate and surface tolerances.
 4. Section 09 69 00 ACCESS FLOORING for resilient floor covering for access panels.
- D. References (Industry Standards):
1. ASTM International (ASTM):
 - a. ASTM C1028 Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter
 - b. ASTM D2240 Standard Test Method for Rubber Property – Durometer Hardness
 - c. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
 - d. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

- e. ASTM E2179 Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors
 - f. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
 - g. ASTM F925 Standard Test Method for Resistance to Chemicals of Resilient Flooring
 - h. ASTM F970 Standard Test Method for Static Load Limit
 - i. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
 - j. ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings
2. International Organization for Standardization (ISO):
- 2.1 European Norm (EN)
- a. EN 433 Determination of residual indentation after static loading
 - b. EN 685 Resilient, textile and laminate floor coverings. Classification
 - c. EN 1815 Resilient and textile floor coverings. Assessment of static electrical propensity
 - d. EN 20105-B02 Tests for Color Fastness of Textiles – Grey Scale for Assessing Change in Color
- 2.2 International Organization for Standardization (ISO):
- a) ISO 140 Measurement of sound insulation in buildings and of building elements
 - b) ISO 8302 Determination of steady-state thermal resistance and related properties
3. National Fire Protection Association (NFPA):
- a) NFPA 253 Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Source
 - b) NFPA 258 Test Method for Specific Density of Smoke Generated by Solid Materials

SUBMITTALS

- E. Product Data: Submit manufacturer's product data, installation instructions and maintenance instructions for each material and accessory proposed for use.
- F. Samples: Submit three representative samples of each product specified for verification.

QUALITY ASSURANCE

- G. Manufacturer Qualifications: Manufacturer must be capable of providing technical field service representation.

- H. Installer Qualifications: Must be installed by professional flooring installers experienced at installing commercial resilient floor covering products and having sufficient professional liability insurance coverage (aka Errors and Omissions Insurance) for the project.

DELIVERY, STORAGE, AND HANDLING

- I. Deliver materials in labeled packages. Store and handle in strict compliance with manufacturer's recommendations. Protect from damage due to weather, excessive temperatures, and construction operations.
- J. Deliver materials sufficiently in advance of installation to condition materials to the required temperature for 48-hours prior to installation.

PROJECT CONDITIONS

- K. Maintain ambient and concrete temperature and humidity levels as described within the installation instructions.

WARRANTY

- L. Provide manufacturer's standard limited warranty.

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURER

- A. Provide wineo PURline by Mats Inc., 179 Campanelli Parkway Stoughton MA 02072;

SECTION 09 62 00 RESILIENT SHEET FLOORING

B. Commercial Resilient Flooring:

1	Product Name:	wineo PURline by Mats Inc.
2	ASTM Specification: ASTM Specification currently under development	Unclassified commercial flooring
3	Limited Wear Warranty:	10 years
4	Material:	Botanol
5	Composition:	Heterogeneous bio-polyurethane, glass fiber reinforcement, paper print layer and PU top coat
6	Color:	Standard colors as offered
7	Surface:	Depending on design
8	Back of Sheet:	FleeceTEC system®
9	Material Size:	6'7" x 65'7" x 2.5mm
10	Flammability (E648/NFPA 253): ≥ 0.45 watts/sq.	Meets Class 1

cm. for Class 1 is required

11	Smoke Density (ASTM E662/NFPA 258): < 450 is required	Meets requirements
12	Slip Resistance (ASTM D2047):	Dry 0.92 and wet 0.93 (not recommended for ramps)
13	VOC's:	CA 01350 compliant
14	Hardness (ASTM D2240):	Shore type "A", > 95
15	Static Load (ASTM F970): ≤ 0.005 inches is required under 175 lbs.	Meets requirement under 1450 lbs.
16	Substrate Preparation:	Per ASTM F710 and the wineo PURline by Mats Inc. installation instructions

SECTION 09 65 19 RESILIENT TILE/PLANK FLOORING

C. Commercial Resilient Flooring:

1	Product Name:	wineo PURline by Mats Inc.
2	ASTM Specification: ASTM Specification currently under review	Unclassified commercial flooring
3	Limited Wear Warranty:	10 years
4	Material:	Botanol
5	Composition:	Heterogeneous bio-polyurethane, glass fiber reinforcement, paper print layer and PU top coat
6	Color:	Standard colors as offered
7	Surface:	Depending on design
8	Back of Tile:	FleeceTEC system®
9	Material Size:	8" x 47", 9.75" x 59", 13" x 26" and 19.5" x 39" depending on design x 2.5mm (thickness)
10	Flammability (E648/NFPA 253): ≥ 0.45 watts/sq. cm for Class 1 is required	Meets Class 1
11	Smoke Density (ASTM E662/NFPA 258): < 450 is required	Meets requirements
12	Slip Resistance (ASTM D2047):	Dry 0.92 and wet 0.93 (not recommended for ramps)
13	VOC's:	CA 01350 compliant
14	Hardness (ASTM D2240):	Shore type "A", > 95

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| 15 | Static Load (ASTM F970): ≤ 0.005 inches is required under 175 lbs. | Meets requirement under 1450 lbs. |
| 16 | Substrate Preparation: | Per ASTM F710 and the wineo PURline by Mats Inc. installation instructions |

PART 3 - EXECUTION

3.1 GENERAL CONTRACTOR RESPONSIBILITIES

- A. Supply a safe, climate controlled building and subfloor that meets the requirements of *ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring* or as detailed in the wineo PURline by Mats Inc. installation instructions. This includes a structurally sound concrete subfloor, new concrete slabs must conform to *ASTM C33/C33M — Standard Specification for Concrete Aggregate*.
- B. On and below grade concrete subfloors require a confirmed effective vapor retarder with a low permeance (≤ 0.1) having a minimum thickness of 10 mils or meeting the requirements of *ASTM E1745 — Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs*. Confirm it was placed directly underneath the concrete, above the granular fill. If this is not possible, use a topically applied moisture mitigation system that conforms to *ASTM F3010 – Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings*. It must be applied following the manufacturers written instructions. Chemical adhesive removers must not be used.
- C. Moisture testing is mandatory following the protocol of *ASTM F2170 – Standard Test Method for Determining Relative Humidity in Concrete Slabs using in situ Probes*, regardless of grade level or whether the concrete is freshly poured or classified as an older slab. It is the responsibility of the General Contractor/End User to have the concrete subfloor tested for moisture. It is also recommended that an International Concrete Repair Institute (ICRI) Tier 2 Certified Technician performs the moisture testing. The test results must not exceed the maximum acceptable relative humidity for the adhesive. If they do, the installation must not proceed until either the subfloor dries to an acceptable level or an effective mitigation system is used that conforms to *ASTM F3010* installed following the manufacturer's written instructions. The test methodology and results including photographs must be documented and provided to the flooring contractor, General Contractor, owner and/or architect.
- D. A secure storage and/or installation area that is maintained permanently or temporarily at the required ambient service temperature and humidity, so the flooring contractor can acclimate the flooring materials is required for at least 48 hours prior to, during and 72 hours after the application of the flooring.
- E. Areas with direct prolonged exposure to sunlight must be protected with the use of Low E glass doors and windows, facades or use a protective film over the glass.
- F. Areas of the flooring that are subject to direct sunlight through doors or windows should have them covered using blinds, curtains, cardboard or similar for the time of the installation and 72 hours after the installation to allow the adhesive to cure.
- G. Prevent all traffic for a minimum of 12 hours and rolling loads for 72 hours to allow the adhesive to cure. If required after 12 hours protect the flooring from damage during construction operations using Masonite, plywood or a similar product, ensuring first that the flooring surface is free of all debris. Lay panels so that

the edges form a butt joint and tape the joint to prevent both movement and debris entrapment underneath them. Inspect immediately before covering and after removal for final acceptance.

3.2 FLOORING CONTRACTOR RESPONSIBILITIES

- A. Provide professional flooring installers experienced at installing commercial resilient floor coverings with sufficient professional liability insurance coverage (aka Errors and Omissions Insurance) for the project.
- B. Provide an effective installation manager to manage the project and installers and ensure that all of the required procedures are followed as detailed in the wineo PURline by Mats Inc. installation instructions. This includes obtaining the moisture test results (from GC/EU) and making sure they are acceptable prior to installing the flooring.

END OF SECTION