

Montgomery County Public Schools Facilities Guide

DIVISION 9 – FINISHES

SECTION 09650

RESILIENT FLOORING

PART 1 GENERAL

1.01 GUIDE INCLUDES

- A. Vinyl Composition Tile
- B. Rubber Tile
- C. Rubber Auxiliary Gymnasium Flooring (See Section 09550 for other Gymnasium Floors)
- D. Rubber Base
- E. Stair Tread/Nosing
- F. Linoleum Flooring

1.02 QUALITY ASSURANCE

- A. Installer of linoleum flooring shall have demonstrated experience in commercial-grade installation.

1.03 SUBMITTALS

- A. Submit MSDS for any applicable products used.
- B. Submit manufacturer's certification that resilient flooring and field-applied adhesives meet testing and product requirements of California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

1.04 WARRANTY

- A. Provide 2 year installer's warranty on stair tread nosing wear. Warranty shall include material and labor for repair and replacement of stair treads.

1.05 EXTRA MATERIAL

- A. Provide one box of tile per 50 boxes of tile per color pattern used. Provide 10 lf of base for each 500 lf installed. Extra stock to be turned over and signed by school's Building Service Manager.

PART 2 PRODUCTS

2.01 SUSTAINABILITY REQUIREMENTS

- A. Resilient flooring shall meet testing and product requirements of California Department of Health Services *Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.

2.02 MANUFACTURERS AND PRODUCT NUMBERS (SUBJECT TO COMPLIANCE WITH ABOVE CRITERIA)

- A. Vinyl Composition Tile:
 - 1. Armstrong Standard Excelon
 - 2. Mannington – Luxury

3. Tarkett Azrock Custom Cortina
 4. Amtico Stratica Chlorine Free Eco-Polymeric Resilient Tile
- B. Rubber Tile Flooring & Base:
1. Johnsonite
 2. Flexco Co.
 3. Mercer Products
 4. Burke Flooring Products, Burke Industries
 5. Alternate: Freudenberg Building Systems: (Noraplan commercial flooring only)
 6. Use pre-formed corners for exterior corners.
- C. Rubber Auxiliary Gymnasium Flooring

WEIGHT LIFTING--ONLY WHERE CONTINUOUS EXHAUST IS PROVIDED

1. Material:
 - a. 3/8 inch thickness rubber flooring smooth finish made from at least 95 percent post-consumer tire rubber
 - b. Adhesive as recommended by flooring manufacturer and approved by MCPS's Safety & Environmental Health Unit.
 - c. 4 inch rubber coved base
 2. Manufacturers:
 - a. Everlast Performance Flooring by Gerbert Ltd.
 - b. TuffTred Recycled by Gerstung, Baltimore, MD
 - c. Dinomat by Dinoflex Manufacturing
- D. Stair Tread/Nosing (Minimum of 1/4 inch thickness continuous around nose of tread):
1. Johnsonite: "C" Heavy Duty Diamond.
 2. R. C. Musson Rubber Co.: No. 622 (Non - Ajusta - Nose)
 3. Flexco: Type 400, Square Heavy Duty Diamond
 4. Endora: 1/4 inch Diamond
 5. Burke: 0.25 inch Diamond Design (min. nose depth 1.625 inches)
- E. Linoleum Flooring:
1. Material:
 - a. Sheet or tile, as indicated on drawings.
 - b. No lauan underlayment.
 - c. Commercial grade thickness (min. 0.32 mil)
 - d. Sheet flooring to be heat-welded at seams.
 2. Manufacturers:
 - a. Forbo: Marmoleum and Marmoleum Elementary.
 - b. Armstrong: DLW Linoleum.
 - c. Tarkett Commercial: Linosom.
- F. Flash Patch - Latex liquid:
1. Armstrong MC #808 liquid latex patch
 2. Gibson Homans Co. #801 Redy Mastic
 3. Ardex Latex Patch
- G. Leveling (larger areas):
1. Ardex cement leveling
 2. Plani/patch by Mapei
- H. Adhesive (must be approved by Tile manufacturer and MCPS's Division of Safety & Environmental Health Unit)
1. Water resistant, Non-flammable, Low odor/odorless when dry, No asbestos content, Antimicrobial protection
 2. Adhesives used in flooring installation shall meet testing and product requirements of California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.
 - a. At minimum, products need to comply with VOC limits specified in LEED-for Schools, version 2.2, EQc4. if alternatives tested to the CA protocol are not available.

Comment [MSOffice1]: SDC review found these products to be NON-compliant for LEED-S.

Comment [MSOffice2]: SDC review found products to be non-compliant for LEED-S.

3. Manufacturers:
 - a. Parabond M4098 by Para Chem
 - b. Envirotec Healthguard
 - c. Tile manufacturers approved product

Comment [MSOffice3]: SDC review found product non-compliant for LEED-S.

Comment [MSOffice4]: SDC Needs actual product name to verify LEED-S compliance.

PART 3 EXECUTION

3.01 PREPARATION

- A. Concrete surface to receive flooring shall be examined and properly prepared to ensure grains of sand and foreign materials have been removed. Surface shall be scraped and buffed with screen.
- B. Do not bridge building expansion joints with flooring.

3.02 INSTALLATION

- A. VCT installation should be rolled and protected.
- B. Install stair treads and landings with Epoxy Mastic. Install epoxy nose filler solid at nosings.
- C. Corridor width to be 1/2 inch less than tile width module and base joint at floor to be raked back to receive tile floor and then grouted after tile is in place.
- D. Game lines in widths as shown on drawings (elem. – Multi-Purpose Room) shall be cut into tile with designated colors of similar material as floor tile.
- E. Install resilient flooring in a manner consistent with Division 1 Indoor Air Quality Management requirements.

3.03 INSTALLATION (RUBBER FLOORING)

- A. Test substrate for moisture beyond manufacturers recommended limit. Moisture problem must be corrected before initiating installation of rubber flooring.
- B. Install rubber floor tiles in accordance with manufacturer's recommendations using only mastics approved by manufacturer.

3.04 CLEANING

- A. Vinyl Composition and Rubber Flooring:
 1. Use only Johnson Technique Sealer (Base Coat), Carefree Finish, and Freedom, Bravo or Step-off strippers.
 2. Stripping and Sealing:
 - a. Remove factory finish by removing all debris from floor with broom and dust mop. Use slow-speed floor machine with black stripping pad to strip the floor. After stripping the floor, rinse at least twice with clean water and let dry. (It is very helpful to use a wet/dry vacuum for picking up stripping solution and rinse water.) Apply Technique Base Coat (one uniform coat) with a clean prerinsed rayon mop head. Allow to dry 45 minutes. (Coverage for coat of Technique Sealer (Base Coat) should be between 1,500 and 2,000 square feet per gallon.)
 3. Apply Finish:
 - a. After Technique Sealer (Base Coat) has been allowed to dry properly (at least 45 minutes), apply first of 2 coats of Carefree Finish. Apply Showplace in thin uniform coats and let dry for 1 hour between coats. Use clean prerinsed rayon mop head. (Coverage for Showplace should be between 2,000 and 2,500 square feet per gallon when used after Technique Base Coat.) Keep everything off floor for as long as possible after applying the final coat of Showplace. Two to 3 hours would be considered minimum. A full 24 hours would give floor optimum drying time.

END OF SECTION