SECTION 09650
RESILIENT FLOORING

PART 1 GENERAL

1.1 SECTION INCLUDES:

A. Resilient tile flooring
B. Resilient base
C. Resilient stair nosing, treads, risers and skirting

1.2 REFERENCES

B. ASTM F1066 - Vinyl Composition Floor Tile, Composition 1, Class 2 - through pattern
C. FS L-F-1641 - Floor Covering, Translucent or Transparent Vinyl Surface, with Backing
D. FS L-F-475 - Floor Covering, Vinyl Surface (Tile), with Backing
E. FS RR-T-650 - Treads, Metallic and Non-metallic, Non-skid.

1.3 SUBMITTALS

A. Submit under provisions of Section 01300.
B. Shop Drawings: Indicate seaming plan, borders and patterns.
C. Product data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns and colors available.
D. Samples: Submit two samples 12” x 12” in size illustrating color and pattern for each floor material for each color specified.
E. Submit two 12” long samples of base and stair material for each color specified.
F. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention.

1.4 REGULATORY REQUIREMENTS

A. Conform to applicable code for flame/smoke rating requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, protect and handle products to site under provisions of Section 01600.
B. Protect roll materials from damage by storing on end.

1.6 ENVIRONMENTAL REQUIREMENTS

A. Store materials 3-days prior to installation in area of installation to achieve temperature stability.
B. Maintain ambient temperature required by adhesive manufacturer 3-days prior to, during, and 24 hours after installation of materials.

1.7 MAINTENANCE DATA

A. Submit under provisions of Section 01700.
B. Maintenance Date: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

PART 2 PRODUCTS

2.1 MATERIALS - TILE FLOORING

A. Vinyl Composition Tile (VCT): ASTM F1066; Class 2
   1. Thickness: ⅛".
   2. Design: marbleized.
B. Rubber Tile: FS ASTM F 1344, Type II; Class B
   1. Minimum Thickness: 3/16".
   2. Design: flat.
C. Feature Strips: Of same material as tile.
D. LEED qualifying materials will be considered on an individual basis, verify with the Florida Tech Project Representative.

2.2 MATERIALS - STAIR COVERING

A. Stair Treads: FS RR-T-650, Composition A, Type II, full width and depth of stair tread in one piece; return down edge of tread with tapered thickness.
   1. Material: rubber.
   2. Thickness: ¼".
B. Stair Risers: Maintain height and length in one piece:
   2. Thickness: ⅛".
C. Stair Nosing: 2½" horizontal return, 1¼" return down edge of tread, full width of stair tread in one piece:
   1. Material: rubber.
   2. Thickness: 3/16".
D. Stair Skirting: Maintain width sufficient to provide 2" above stair nose, measured perpendicular to stair slope:
   2. Thickness: ⅛".

2.3 MATERIALS - BASE

A. Base: FS SS-W-40, Type I, top set coved or toeless; formed external corners:
   1. Material: Rubber.
   2. Height: 4".
   3. Thickness: ⅛" thick.
   4. Length: Roll.
B. Base Accessories: Pre-molded end stops of same material, size and color as base.

2.4 ACCESSORIES
A. Sub-floor Filler: Portland cement-based latex underlayment; type recommended by the flooring manufacturer.
B. Primers and Adhesives: Waterproof; types recommended by flooring manufacturer.
C. Edge Strips: Flooring material.
D. Sealer and Wax: Types recommended by flooring manufacturer. Coordinate with the Florida Tech Janitorial Contractor for product compatibility.
   1. Sealer and wax applied shall meet or exceed the ADAAG slip resistance coefficient of 0.6 on static surfaces and 0.8 on ramps, and submit documentation to the Architect and Owner.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify concrete floors are dry to maximum moisture content of 7%, and exhibit negative alkalinity, carbonization, or dusting, follow manufacturer's instructions. Perform tests for calcium chloride and PH should be performed to verify that calcium chloride is less than 5 pounds/1,000 square feet and that the PH is greater than 5, but less than 9. Provide documentation of test results to the Florida Tech Project Representative.
B. Verify floor and lower wall surfaces are free of substances that may impair adhesion of new adhesive and finish materials.

3.2 PREPARATION

A. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
B. Prohibit traffic until filler is cured.
C. Scrape all and any materials and debris from concrete surface before installing any finish floor tile or sheets goods.
D. Vacuum clean substrate

3.3 INSTALLATION - TILE FLOORING

A. Install in accordance with manufacturer's instructions.
B. Mix tile from container to ensure shade variations are consistent when tile is placed.
C. Spread only enough adhesive to permit installation of materials before initial set.
D. Set flooring in place; press with heavy roller to attain full adhesion.
E. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.
F. Install tile to selected pattern. Allow minimum 1/2 full size tile width at room or area perimeter.
G. Terminate flooring at centerline of door openings where adjacent floor finish is dissimilar.
H. Install resilient edge strips at unprotected or exposed edges and where flooring terminates.
I. Scribe flooring to walls, columns, cabinets, floor outlets and other appurtenances to produce tight joints.
J. Install flooring in pan type floor access covers. Maintain floor patterns.
K. At movable partitions, install flooring under partitions without interrupting floor pattern.
L. Install feature strips, edge strips and floor markings where indicated. Fit joints tightly.

3.4 INSTALLATION - BASE

A. Fit joints tight and vertical. Maintain minimum measurement of 18" between joints.
B. Miter internal corners. At external corners, 'V' cut back of base strip to 2/3 of its thickness and fold. At exposed ends, use pre-molded units.
C. Install base on solid backing. Bond tight to wall and floor surfaces.
D. Scribe and fit to doorframes and other interruptions.

3.5 INSTALLATION - STAIR COVERING

A. Install stair nosing, stair treads and stair risers in one piece for full width and depth of tread.
B. Install stair skirting configured tight to stair and stringer profile.
C. Adhere over entire surface. Fit accurately and securely.

3.6 CLEANING

A. Clean work under provisions of 01700.
B. Remove excess adhesive from floor, base and wall surfaces without damage.
C. Clean, seal and wax floor and base surfaces in accordance with manufacturer's instructions. Apply a minimum of 2-coats of acrylic polish at installation. Apply, prior to final acceptance, 4 additional coats of polish. Coordinate with Florida Tech Janitorial Contractor for product compatibility and application rate.

3.7 PROTECTION OF FINISHED WORK

A. Protect finished work.
B. Prohibit traffic on floor finish for 48 hours after installation.

END OF SECTION