



1.01 SUMMARY

A. The work of this Section includes:

1. Rubber tile flooring.
2. Rubber wall base.
3. Rubber stair treads and accessories.
4. Subfloor preparation.

B. Related Sections: Other Specification Sections which directly relate to the work of this Section include, but are not limited to, the following:

1. Section 03300 - Cast-In-Place Concrete; concrete substrate; slab surface tolerances; vapor barrier for applications on or below grade; 90 degree riser and tread edge angle for stair tread and nosings.
2. Section 06100 - Rough Carpentry; plywood substrate; surface tolerances.
3. Section 10270 - Access Flooring; resilient floor covering for access panels.

C. References (Industry Standards)

1. American Society for Testing and Materials (ASTM)

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| A. ASTM E-648-91 | Test method for critical radiant flux of floor covering systems using a radiant energy source. |
| B. ASTM E-662-88 | Test method for specific density of smoke generated by solid materials. |
| C. ASTM C-501 | Resistance to taber abrasion using H-1 8 wheel, 500 gram load, 1,000 cycles. |
| D. ASTM D-2047-85 | Static coefficient of friction. |
| E. ASTM F-1 344-93 | Standard specification for rubber floor tile. |
| F. ASTM F-710-92 | Practice for preparing concrete floors and other monolithic floors to receive resilient flooring. |
| G. NFPA 99 | Test for conductivity. |
| H. FTM 4046-101 | Decay-Time. |
| I. AATCC-134 | Static generation test method. |
| J. ESD-S7.1-1994 | Test for conductivity. |
| K. ASTM E-84 | Surface burning of building materials. |
| L. FS RR-T-650 D | Federal specification for stair treads. |

2. National Fire Protection Association (NFPA)

- A. NFPA 253-1984 Test method for critical radiant flux of floor covering systems using a radiant energy source.
- B. NFPA-258-1989 Test method for specific density of smoke generated by solid materials.

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, installation instructions, and maintenance recommendations for each material proposed for use.
- B. Samples: Submit two 15 by 15 cm (6 by 6 inch) verification samples of each type of product specified in color selected for use.
- C. MSDS (Material Safety Data Sheets) are available for adhesives and cleaning agents.



If you have any questions, feel free to contact us.
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1.03 QUALITY ASSURANCE

- A. Manufacturer: Provide resilient flooring manufactured by a firm with a minimum of 10 years experience in the fabrication of resilient flooring of types equivalent to those specified. Manufacturers proposed for use, which are not named in this Section, shall submit evidence of ability to meet performance requirements specified not less than 10 days prior to bid date.
 - 1. Color Matching: Provide resilient flooring products, including wall base and accessories, from one manufacturer to ensure color matching.
 - 2. Manufacturer capable of providing field service representation.
- B. Installer's Qualifications: Installer experienced (minimum of 2 years) to perform work of this section who has specialized in the installation of work similar to that required for this project and who is acceptable to the product manufacturer.
- C. Materials: For each type of material required for the work of this Section, provide primary materials which are the products of one manufacturer. Provide secondary materials which are acceptable to the manufacturer of the primary materials. Comply with applicable regulations regarding VOC (volatile organic compound) content of adhesives.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. 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.
- B. Deliver materials sufficiently in advance of installation to condition materials to room temperature prior to installation.

1.05 PROJECT CONDITIONS

- A. Maintain a temperature of 68 degrees F (20 degrees C) plus or minus 5 degrees F (3 degrees C) in spaces to receive resilient flooring. Specified temperature shall be maintained at least 48 hours before, during, and 48 hours after installation.

1.06 WARRANTY

- A. Provide manufacturer's standard one-year warranty against defects in manufacturing and workmanship of resilient flooring products. Provide manufacturer's standard limited wear warranty/conductivity warranty as specified under each product as applicable.

1.07 EXTRA MATERIALS

- A. Furnish full size units equal to 2 percent of quantity of resilient flooring installed as extra materials. Properly label and package extra materials. Deliver to Owner's designated storage area.

PART 2 - PRODUCTS

2.01 ACCEPTABLE DISTRIBUTOR

- A. Provide resilient flooring by Centaur Floor Systems, 135 Chapala Street, Santa Barbara, CA 93101, telephone 800-536-9007, or 805-957-0182; fax 805-957-0125.

2.02 RESILIENT TILE FLOORING

- G. Rubber Tile for Special Applications: SPECIAL APPLICATIONS AS NOTED

- 1. Product Name: EcoFlor 992 S Grano, Article 1936, golf spike resistant, extra heavy traffic, raised round pastilles, 10.0 mm (0.40 inches) overall thickness, .5 mm (0.02 inches) raised pattern thickness.

1. Product Name: EcoFlor 992 S Grano, Article 1937, golf spike resistant, extra heavy traffic, hammered surface 10.0 mm (0.40 inches) thickness.
2. Material: Top layer rubber, free from reground rubber, natural rubber or course fillers. Bottom layer manufactured with recycled first grade components.
3. Tile Size: 100 cm by 100 cm (39.37 inches by 39.37 inches).
4. Back of Tile: Smooth, double-sanded back
5. Wear Warranty: 5 year
6. Standard: ASTM F 1344-93, for laminated tiles.
7. Abrasion Resistance: Taber abrasion test, ASTM C 501, H-1 8 wheel, 500 gram load, 1000 cycles, gram weight loss not greater than .20.
8. Hardness: ASTM D 2240, Shore A, equal or greater than 70.
9. Slip Resistance: Static coefficient of friction (James Test): ASTM D 2047, equal to or greater than 0.6, ADA guidelines compliance.
10. Flammability: ASTM E 648; NFPA 253; NBSIR 75 950 result to be not less than 0.45 watts per square centimeter, Class 1.
11. Smoke Density: ASTM E 662, NFPA 258, NBS smoke density, less than 450.
12. Burn Resistance: Cigarette and solder burn resistance.
13. Halogen-Free: Products shall contain no halogens.
14. PVC-Free: Products shall contain no poly-vinyl-chloride.
15. Asbestos-Free: Products shall contain no asbestos.
16. Color: As selected.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that spaces to receive resilient flooring are suitable for installation. Do not proceed with work until unsatisfactory conditions are corrected. Comply with manufacturer's recommendations including the following:
 1. Substrates shall be dry and clean.
 2. Substrates shall be free of depressions, raised areas, or other defects which would telegraph through installed flooring.
 3. Temperature of resilient flooring and substrate shall be within specified tolerances.
 4. Moisture condition and adhesive bond tests shall be performed as specified.
- B. For applications on concrete, verify curing, hardening, or breaking compounds have not been used. If there are any, do not proceed until compounds have been removed as specified.
- C. For applications on concrete slab on grade or below grade, verify vapor barrier below slab was installed. If no vapor barrier was installed, do not proceed with work unless written acceptance of such conditions is received and submitted.
- D. Perform moisture condition test in each major area, minimum 1 per 2,000 square feet, prior to installation. Moisture condition shall not exceed 3 pounds per 1,000 square feet per 24 hour day, in accordance with Rubber Manufacturers Association Test Method. Do not proceed with work until results of moisture condition tests are acceptable.
- E. Perform adhesive bond test in each major area, minimum 1 per 2,000 square feet, prior to installation. Examine after 72 hours to determine whether bond is solid and no moisture is present. Do not proceed with work until results of bond test are acceptable.

3.02 PREPARATION

- A. Comply with ASTM F 710-92 and manufacturer's recommendations for surface preparation. Remove substances incompatible with resilient flooring adhesive by method acceptable to manufacturer.
 2. Concrete floors with steel troweled (slick) finish shall be properly roughened up (sanded) to ensure suitable adhesion. Concrete floors with curing, hardening, and breaking compounds shall be abraded with mechanical methods only to remove compounds. Use blastrac or similar equipment.

- B. Fill voids, cracks, and depressions with trowel-applied leveling compounds acceptable to manufacturer. Remove projections and repair other defects to tolerances acceptable to manufacturer.
- C. Vacuum subfloors immediately prior to installation to remove loose particles.

3.03 INSTALLATION

- A. Install resilient flooring in accordance with manufacturer's printed installation instructions. Comply with the following:
 - 1. Layout resilient flooring to provide equal size at perimeter. Adjust layout as necessary to eliminate resilient flooring which is cut to less than half full width.
 - 2. Lay resilient flooring with arrows in the same direction.
 - 3. Install resilient flooring without cracks or voids at seams. Lay seams together without stress. Remove excess adhesive immediately.
 - 4. Scribe resilient flooring neatly at perimeter and obstructions.
 - 5. Extend resilient flooring into reveals, closets, and similar openings.
 - 6. Install reducer strips at exposed edges.
 - 7. Do not mix manufacturing batches of a color within the same area.
 - 8. Do not install resilient flooring over building expansion joints.
 - 9. Do not install defective or damaged resilient flooring.
- B. Install resilient wall base in accordance with manufacturer's printed installation instructions. Install in longest practical lengths. Tightly adhere to substrate. Fill voids due to seams in substrate materials with manufacturer's recommended filler material.
- C. Install resilient stair treads and accessories in accordance with manufacturer's printed installation instructions. Install reducer strips at exposed edges. Tightly adhere to substrate only where recommended by manufacturer. Fill voids due to seams in substrate materials with manufacturer's recommended filler material.
- D. FLASH COVING OF SHEET GOOD (WHEN REQUIRED). Extend flooring up the wall in a flash-coved method to a height as indicated. Provide cove stick and manufacturer's recommended clip-on cap piece. Follow resilient flooring manufacturer's flash-coving instructions.

3.04 CLEANING AND PROTECTION

- A. Touch-up and repair minor damage to eliminate all evidence of repair. Remove and replace work which cannot be satisfactorily repaired.
- B. Clean surfaces only after adhesive has fully cured, no sooner than 72 hours after installation. Clean surfaces using nonabrasive materials and methods recommended by manufacturer. Remove and replace work that cannot be successfully cleaned.
- C. Protect completed work from damage and construction operations and inspect immediately before final acceptance of project.