

SECTION 09660

RESILIENT SHEET FLOORING

PART 1 GENERAL

1.01 DIVISION OF RESPONSIBILITIES TERMINOLOGY: **NOT USED**

1.02 SUMMARY: The Contractor shall provide heat welded Resilient Sheet Flooring with Integral Base, and related accessory items where shown on the drawings, as specified in this Section, and as needed for a complete and proper installation.

1.03 RELATED WORK:

- A. Section 01710- Construction & Final Cleaning, reference for final floor cleaning and waxing
- B. Section 03310- Concrete Floor Preparation.
- C. Section 07190- Moisture Mitigation Systems.
- D. Section 09650- Resilient Flooring. Reference this Section for flooring layout procedure, based on obtaining a flooring layout CADfile from Petco's Tenant Improvement Architect

1.04 SUBMITTAL: The Contractor shall provide Concrete Floor Testing results to the PETCO Product Manager per Section 01340 requirements. This submittal is for the PETCO Project Manager's records only. No other product submittal is required for the work of this Section IF provided per the construction documents. Any Request for Product Substitution must be submitted per Section 01340- Submittals.

1.04 QUALITY ASSURANCE:

- A. Concrete Floor Testing:
 - 1. Moisture Emission Level Test: The Contractor shall provide testing to confirm moisture vapor emission levels, in accordance with ASTM F 1869.98 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride". This testing must be provided in an enclosed, temperature controlled building shell approximately 30 days prior to the resilient flooring installation.
 - a. Maximum Acceptable Moisture Emission Level: Moisture Vapor shall not exceed 5.0 pounds per 1000 square feet per 24 hours.
 - b. Note that the specified "acceptable" emission level for this flooring product may be different than for other flooring products scheduled.
 - 2. Alkali Test: The Contractor shall provide testing for alkalinity before the installation of resilient flooring, to confirm acceptable pH between 5 and 9.
 - 3. Bond Test: The Contractor shall provide a Bond Test as recommended by the flooring manufacturer, to confirm the compatibility of resilient flooring adhesives to the concrete floor after removal of old adhesives, curing agents, breaker compounds, dust inhibitors, oil, grease, paint and other special surface treatments and conditions.
 - 4. Concrete Slab Vapor Control Treatment shall be provided if the Maximum Acceptable Moisture Emission Level exceeds the limit specified, or if the Alkalinity pH as tested is above 9

- B Resilient Flooring Installation shall be in accordance with ASTM F 710-98 "Standard Practice for Preparing Concrete Floors to Receive Flooring" If required due to existing conditions, Moisture and pH Mitigation shall be provided per Section 07190-Moisture Mitigation Systems

1.05 WARRANTY:

- A. Moisture Mitigation: If provided, then the Contractor shall provide the Moisture Mitigation: System manufacturer's product warranty in the Building Maintenance Manual per Section 01700-Contract Closeout
- B. Flooring: The Contractor shall provide the flooring manufacturer's product warranty in the Building Maintenance Manual per Section 01700-Contract Closeout
- C. Flooring Adhesive: The Contractor shall provide the flooring adhesive manufacturer's product warranty in the Building Maintenance Manual per Section 01700-Contract Closeout.
- D. Installer's Warranty: The Contractor shall include a copy of the installer's warranty for all work provided, for a term of 1 year after the Date of Substantial Completion in the Building Maintenance Manual per Section 01700-Contract Closeout requirements

PART 2 PRODUCTS

2.01 VINYL SHEET FLOORING:

- A. Where Armstrong Interiors products are specified, contact Lisa Cavataio, Account Manager / Retail National Accounts (773-868-0270; lvcavataio@armstrong.com) for Petco's national account pricing and to verify product availability. No substitution is acceptable.
- B. Drawing Key Symbol "FC-03C"
 - 1. Provide Armstrong Timberline, Color Light Rustic Beech #37026, Vinyl Sheet Flooring with backing
 - 2. Weld Rod: Provide Armstrong weld rod intended for heat welding of seams.
- C. Drawing Key Symbol "FC-06A"
 - 1. Provide Armstrong Connection Corlon, Color #88704 Stone Harbor, Vinyl Sheet Flooring with backing
 - 2. Weld Rod: Provide Armstrong weld rod intended for heat welding of seams.
- D. Adhesive:
 - 1. Provide Armstrong adhesive #3599.
 - 2. If a Moisture Mitigation product is provided due to existing concrete floor moisture and pH levels, as specified in Section 07190- Moisture Mitigation Systems, then the Contractor shall provide a compatible flooring adhesive

2.02 INTEGRAL WALL BASE (Drawing Key Symbol "WB-06"): Provide integral flash cove wall base by extending sheet flooring six (6) inches up the wall using adhesive, and accessories recommended and approved by the flooring manufacturer.

2.03 ACCESSORIES:

- A. Top Edge Trim Cap: Provide extruded aluminum cap molding equal to #ALU0214-S, Color Clear (satin), 11/16" concealed, 1/4" leg, 7/32" projection from face of wall, sized to receive 3/32" product, 12 foot length, by Outwater Plastics Industries Inc., Bagota NJ (800-835-4400, 888-688-9283; www.outwater.com)
- B. For patching, smoothing, and leveling monolithic subfloors (concrete, terrazzo, quarry tile, ceramic tile, and certain metals), provide cement-based underlayment; or cement-based patch and skim coat.
- C. For sealing joints between the top of integral cove cap and irregular wall surfaces such as masonry, provide plastic filler applied according to the manufacturer's recommendations.
- D. Provide a fillet support strip for integral cove base with a minimum radius of 1 in. (2.54 cm) of wood or plastic.
- E. Provide door thresholds as scheduled on the drawings and specified in Section 08710-Finish Hardware.

2.04 MOISTURE MITIGATION: If either the measured Moisture Emission Level or the pH Level are above the flooring adhesive manufacturer's limits, then the Contractor shall provide concrete slab moisture mitigation treatment per Section 07190-Moisture Mitigation Systems.

PART 3 EXECUTION

3.01 SURFACE CONDITIONS:

- A. The Contractor shall examine the subfloor prior to installation to determine that surfaces are smooth and free from cracks, holes, ridges, and other defects that might prevent adhesive bond or impair durability or appearance of the flooring material.
- B. The Contractor shall inspect the subfloor prior to installation to determine that surfaces are free from curing, sealing, parting and hardening compounds; residual adhesives; adhesive removers; and other foreign materials that might prevent adhesive bond. The Contractor shall visually inspect for evidence of moisture, alkaline salts, carbonation, dusting, mold, or mildew.
- C. The Contractor shall verify that moisture content of concrete slabs, building air temperature, and relative humidity are within the limits recommended by the product manufacturer.
- D. The Contractor shall not proceed with the installation until any unsatisfactory conditions have been corrected. Installation indicates acceptance of substrates with regard to conditions existing at the time of installation.

3.02 PREPARATION:

- A. Smooth concrete surfaces, removing rough areas, projections, ridges, and bumps, and filling low spots, control or construction joints, and other defects with underlayment, patch and skim coat as recommended by the flooring manufacturer.

- B. Remove paint, varnish, oils, release agents, sealers, and waxes. Remove residual adhesives as recommended by the flooring manufacturer. Remove curing and hardening compounds not compatible with the adhesives used, as indicated by a bond test or by the compound manufacturer's recommendations for flooring. Avoid organic solvents.
- C. Provide subfloor Calcium Chloride Tests (and Bond Tests) to determine if surfaces are dry; free of curing and hardening compounds, old adhesive, and other coatings; and ready to receive flooring.
- D. Vacuum or broom-clean surfaces to be covered immediately before the application of flooring. Make subfloor free from dust, dirt, grease, and all foreign materials.

3.03 INSTALLATION OF VINYL SHEET FLOORING:

- A. Install flooring in strict accordance with the latest flooring manufacturer's printed installation instructions.
- B. For installation of resilient flooring directly over a Moisture Mitigation product, the contractor shall use a 100% solids adhesive, and/ or contact type adhesives with long working times that can be applied to substrates with a pH up to 10. The method of use is to apply the contact type adhesives to the substrate and allow the materials water to flash off prior to the flooring installation. Test proper adhesion of adhesive to moisture mitigation product prior to the installation of the entire flooring system.
- C. Install flooring wall to wall before the installation of floor-set cabinets and equipment. Extend flooring into toe spaces, door recesses, closets, and similar openings.
- D. If required, install flooring on pan-type floor access covers. Maintain continuity of color and pattern within pieces of flooring installed on these covers. Adhere flooring to the subfloor around covers and to covers.
- E. Scribe, cut, and fit or flash cove to permanent fixtures, columns, walls, partitions, pipes, outlets, and built-in furniture and cabinets.
- F. Adhere flooring to the subfloor without cracks, voids, raising and puckering at the seams. Roll with a 100-pound roller in the field areas. Hand-roll flooring at the perimeter and the seams to assure adhesion. Refer to specific rolling instructions of the flooring manufacturer.
- G. Lay flooring to provide a minimum number of seams. Avoid cross seams, filler pieces, and strips. Match edges for color shading and pattern at the seams in compliance with the manufacturer's recommendations.
- H. Install flooring with adhesives, tools, and procedures in strict accordance with the manufacturer's written instructions. Observe the recommended adhesive trowel notching, open times, and working times.
- I. Prepare heat-welded seams with special routing tool supplied for this purpose, and heat weld with vinyl welding rods in seams. Use methods and sequence of work in conformance with written instructions of the flooring manufacturer. Finish all seams flush and free from voids, recesses, and raised areas.
- J. Provide integral flash cove wall base where scheduled on the drawings, including cove fillet support strip and Top Edge Trim Cap. Construct flash cove base in accordance with the

flooring manufacturer's instructions. Heat-weld seams with special routing tool supplied for this purpose, and heat weld with vinyl welding rods in seams.

3.04 INSTALLATION OF VINYL SHEET FLOORING ACCESSORIES:

- A. Fill voids with plastic filler along the top edge of the integral cove cap on masonry surfaces or other similar irregular substrates.
- B. Place resilient edge strips tightly butted to flooring, and secure with adhesive recommended by the edge strip manufacturer. Install edge strips at edges of flooring that would otherwise be exposed.
- C. Top Edge Trim Cap:
 - 1. Secure Top Edge Trim Cap to wall, with mechanical fasteners at 6 inches on center.
 - 2. Provide concave-tooled white silicone sealant bead at top of Top Edge Trim Cap against FRP Wall Panel finish.

3.05 INSTALLATION OF SPECIALTY SHEET FLOORING: **NOT USED**

3.06 CLEANING & PROTECTION:

- A. The Contractor shall protect installed flooring as recommended by the flooring manufacturer against damage from rolling loads, other trades, or the placement of fixtures and furnishings.
- B. The Contractor shall provide cleaning in accordance with Section 01710- Construction & Final Cleaning requirements.

END OF SECTION