

SECTION 096710 - SPECIAL SPORTS FLOORING (TRACK)

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section.

1.2 SUMMARY

A. Extent of prefabricated athletic rubber, dual-durometer, vulcanized and calendared flooring where indicated on the drawings.

B. Provide an athletic rubber sheet, which has been manufactured to maintain performance criteria stated by manufacturer without defects, damage or failure.

1. Track Surface.

C. Related Sections:

1.3 QUALITY ASSURANCE

A. Installer Qualifications: A firm specialized in installation of sports flooring with experienced installer (applicator) who has completed athletic flooring similar in material, design, and extent to that indicated for this Project, that is acceptable to the manufacturer, and whose work has resulted in installations with a record of successful in-service performance.

B. Single Installer Responsibility: Entire floor system shall be installed by a single firm (herein called the Installer), for undivided responsibility. Include moisture barrier, underlayment, flooring, finish, markings and other accessory items as indicated.

1.4 SUBMITTALS

A. Product Data: Submit manufacturers detailed technical product data and installation instructions for flooring system. Include instructions for handling, moisture protection, anchorage, finishing, protection and maintenance.

B. LEED Submittals:

1. Product Data for Credit EQ 4.1: For adhesives, sealants and chemical-bonding compounds, including printed statement of VOC content.

C. Details: Provide transition details at all required conditions for Architects approval.

D. Samples: Submit samples of flooring finish together with color chips for game line markings.

E. Maintenance Instructions: Submit 2 copies of manufacturer's recommended maintenance practices for each type of special sports flooring.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver flooring materials to building until "wet work" such as concrete and plaster have been completed and cured to a condition of equilibrium and temperature of installation spaces can be maintained at not less than 65 degrees F.

B. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storing and mixing with other components.

C. Store materials to comply with manufacturer's written instructions to prevent deterioration from moisture, heat, cold, direct sunlight, or other detrimental effects.

1.6 JOB CONDITIONS

A. Maintain ambient temperature and humidity conditions in a range of 65 deg. F to 80 deg. F and relative humidity of 50% or less in spaces to receive flooring for 7 days before installation, during installation, and for 72 hours after installation unless flooring manufacturer recommended time periods are longer.

B. Environmental Limitations: Comply with fluid-applied, athletic flooring manufacturer's written instructions for substrate temperature, ambient temperature, humidity, ventilation, and other conditions affecting flooring installation.

1. Do not install flooring until spaces are enclosed and weatherproof; wet work in spaces is complete and dry; and overhead work, including installing mechanical systems, lighting, and athletic equipment, is complete.

2. Maintain ambient temperature and humidity conditions in range of 65 deg. F. to 80 deg.

F. and relative humidity of 50% or less in spaces to receive flooring for 7 days before installation, during installation, and for 72 hours after installation, unless manufacturer's recommended time periods are longer.

C. Close spaces to traffic during flooring application and for period after application recommended by manufacturer, but not less than that required for the flooring system, including game-line and marker paint, to cure.

1.7 WARRANTY

A. Special Resilient Athletic Flooring: Provide manufacturer's standard three year warranty against defects of materials.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design: Subject to compliance with requirements, provide Kombi 8mm track surface by Regupol America. 33 Keystone Drive, Lebanon, PA 17042 www.regupol.com 800-537-8737

a. Track Finish: Smooth

3. Color(s): Refer to Color Schedule on drawings for color selection.

4. Roll widths: 48" standard

B. Physical Requirements: Product shall non-hazardous, free of metal, PCB, formaldehyde, lead and mercury. Physical characteristics shall be in accordance with manufacturer's printed data.

C. Lane Marking Paint: As recommended and installed by the flooring manufacturer.

D. Performance

1. Performance of the prefabricated rubber athletic flooring conforms to the following criteria:

Performance Criteria	Test Method	Result
Density	ASTM D 3676	Cushion Layer 45 lbs./cu/ft Wear Layer 79 lbs./cu ft
Hardness Shore A	ASTM D 2240	55
Critical Radiant Flux	ASTM E 648	Class II
Optical Density of Smoke	ASTM E 662	<450
Static Load Limit	ASTM F970	0.006 in.
Coefficient of Friction	DIN 18032-2	1.07 dry, 0.74 wet
Ball Rebound	DIN 18032-2	98%
Force Reduction	DIN 18032-2	21%
Color Stability		Good
Chemical Resistance		Good
Resistance to Spikes	(Track Shoes)	No-Do not use spikes
UVResistance		Good

2.2 MISCELLANEOUS MATERIALS

A. Adhesives (Cements): Waterproof, stabilized type as recommended by flooring manufacturer to suit material and substrate conditions.

B. Concrete Slab Primer: Non-staining type as recommended by flooring manufacturer.

C. Leveling Compound: Latex type as recommended by flooring manufacturer.

PART 3 - EXECUTION

3.1 PRELIMINARY INSPECTION AND TESTING

A. Installer of synthetic sports flooring shall be responsible for the following:

1. Inspection of concrete substrate for cleanliness and contamination with foreign substances including unsound surface conditions.

B. The floor installer shall verify that concrete slabs comply with requirements specified in Division 3 Section 'Cast-in-Place Concrete' as follows:

1. Tolerances: Level slab surfaces to the following tolerances, measured within 24 hours according to ASTM E 1155/E 1155M for a randomly trafficked floor surface

2. Total deviation of 1/8 inch in 10 feet, non-cumulative in any direction and equivalent to FF50 (floor flatness), FL35 (floor levelness).

3. If deficiencies are found in either of the above mentioned conditions, flooring contractor shall immediately report to Architect in writing

C. Testing for moisture content of concrete substrate. If not sufficiently dry, allow concrete to continue drying until moisture content recommended by flooring manufacturer for proper adhesion has been attained.

1. Apply manufacturers' concrete primer/sealer to entire concrete substrate when concrete moisture content exceeds 4% or manufacturer's recommendations. Identify and itemize cost of primer/sealer (material and labor, OH+P, plus applicable taxes) as a separate line item in the base bid. In the event the concrete substrate meets moisture content naturally, the bid amount of the primer / sealer line item will be deducted from the contract by Change Order.

D. Testing of concrete substrate for adhesion of rubber flooring.

- E. Verifying that temperature and humidity conditions are within flooring manufacturer's required ranges for installation and that these ranges can be maintained during and after installation.
- F. Verifying that work by other trades in installation and related adjacent areas has been completed except for bleacher installation.
- G. Reporting in writing to the Contractor any deviation or deficiency observed during preliminary inspection and testing by the rubber floor Installer.
- H. Installer of rubber flooring shall not proceed with installation of flooring until all reported deviations and deficiencies have been corrected.

3.2 INSTALLATION

- A. General: Install rubber flooring in accordance with manufacturer's instructions.
 - 1. Priming: Prime existing track/infield surface or concrete subfloor at rate recommended by flooring manufacturer.
 - 2. Unroll sheet and allow relaxation.
 - 3. Inspect sheet for any damages or defects.
 - 4. Always install the flooring in the same direction.
 - 5. Cut and adjust flooring prior to installation.
 - 6. Track lanes to be whole sheets with parallel seams only at lane markings and minimal cross seams at radii. Auxiliary areas to use 6 foot sheets to minimize seams.
 - 7. All edges must be straight-edged before adjusting the seams.
- B. Mix adhesive in accordance with manufacturer's instructions.
 - 9. Roll flooring in both directions with a 100 lbs (45 kg) sectional floor roller.
 - 10. Check for air bubbles and continue rolling if needed.
 - 11. Roll the seam with a hand roller and remove any excess adhesive that may have come through the seam.
 - 12. Hold all seams in place with suitable weights for a minimum of 12 hrs.
 - 13. Repeat the same procedure for the rest of the installation.
 - 14. Lines to be painted as per manufacturer's instructions.
 - 15. Surface to be protected as specified before, during and after installation until project's acceptance by the owner or his agent.
 - 16. Allow adhesive to set 72 hrs before the initial cleaning of the surface.
 - 17. Provide floor transitions at doorway required by installation over existing track surface.

3.3 FINISH

- A. Apply lane-line paint according to manufacturer's written instructions. Mask flooring to provide sharp edges.
 - 1. Color: To be selected by Architect from manufacturers' standard colors.

3.4 PROTECTION

- A. Protect completed flooring during remainder of construction period with heavy paper or other suitable covering, so that flooring and finish will be without damage or deterioration at time of acceptance.
- END OF SECTION 096710