

**ARCHITECTURAL SPECIFICATIONS FOR
SUSPENDED MODULAR TILE FLOOR SYSTEM**

SECTION 09771- ATHLETIC SURFACING - INDOOR - SUSPENDED

PART 1 – GENERAL

1.01 DESCRIPTION

- A) Scope
 - 1. The furnishing of interlocking suspended synthetic modular tile system.
 - 2. Game lining, if required.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A) Installation of concrete, bituminous or wood substrate.
- B) Preparation of substrate to provide a medium, dense finish with level tolerance of (+) or (-) 1/8 inch in any ten-foot radius.
- C) Substrate shall be free of any debris before modular tiles are installed.

1.03 QUALITY ASSURANCE

- A) Acceptable Manufacturer:
 - 1. The manufacturer shall be a firm experienced in the manufacturing of interlocking suspended synthetic floor systems for over 20 years.
- B) Acceptable Installer:
 - 1. Flooring contractor shall be a firm experienced in the flooring field and approved by the manufacturer.
- C) Warranty:
 - 1. Manufacturer's standard 15-year limited warranty on materials.

1.04 SUBMITTALS

- A) Submit samples of the actual modular surface in the standard colors and manufacturers literature, as required by Section 01340.

1.04 DELIVERY AND STORAGE

- A) Material shall not be installed until all other work is complete to insure cleanliness and to protect the material from damage.

PART 2 - PRODUCTS

2.01 PROPRIETARY PRODUCT

- A) Resilient interlocking modular flooring with manufacturer's brand name: PlankFlex.

2.02 PROPRIETARY PRODUCT DESCRIPTION

A) PlankFlex interlocking modular floor tiles are manufactured from a high-impact polypropylene base module with a solid vinyl floor tile inserted and laminated into the base. PlankFlex is designed for interior residential, commercial, athletic and light industrial use.

2.03 MANUFACTURER

A) Mateflex Inc., Utica, NY

2.04 PHYSICAL CHARACTERISTICS

- A) Dimensions: 36-1/8 x 4-1/8 x 1/2" nominal
- B) Weight: 1.75 lbs. (28 oz.)
- C) Standard packing: 24 tiles per carton
- D) Shipping weight: 40 pounds per carton

2.05 PERFORMANCE CHARACTERISTICS

- A) Static load: 100 psi – ASTM F-790
- B) Rolling load: not tested

2.06 LVT INSERT, PHYSICAL PROPERTIES

- A) A dimensionally stable PVC felt backing
- B) 0.07mm high density white based PVC layer with copyrighted pattern printed on it.
- C) Minimum 0.20mm (10-mil) high density clear PVC wear layer.
- D) Finished with 3 grams of polyurethane coating, semi-gloss.
- E) Size: 36 x 4 inches
- F) Overall thickness of 0.120 inches (3.0mm)

2.07 LVT INSERT, MECHANICAL PROPERTIES

- A) Hardness: 65 – ASTM D-2240
- B) Abrasion resistance: Meets requirements – ASTM D-3389
- C) Slip resistance: Meets specifications – ASTM D-2407
- D) Static load limit: 250 psi – ASTM F-970-93
- E) Residual indentation: Meets specifications – ASTM F-1700 Class III, Type B
- F) Fire resistance: Class 1 – ASTM E-648-94a/NFPA 253 (Critical radiant flux)
- G) Fire resistance: 450 or less – ASTM E-662/NFPA 258 (Smoke density)
- H) Chemical resistance, ASTM F-925: 5% Acetic acid, 70% isopropyl alcohol, Mineral oil, 5% Sodium hydroxide, 5% Hydrochloric acid, 5% Ammonia, Bleach, 5% Phenol, 212 deg. F. hot water – all No Effect.
- I) Biological resistance: Aspergillus Niger, Penicillium Pinophilum, Chaetomium Globosum, Gliocladium Virens, Aureobasidium Pullulans, Pseudomonas Aeruginosa.
- J) Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m³.

2.08 LVT INSERT, COLOR/PATTERN

A) Maple woodgrain with Light Lizard Skin emboss, Cherry or Chestnut woodgrain with Deep Wood emboss.

2.09 BASE MODULE

A) Design: All base modules to include a 0.120" deep rim designed to contain and protect the vinyl insert tile.

B) Material: All modules shall be made from a proprietary blend of no-break engineering grade virgin copolymer polypropylene with incorporated stabilizers, ultraviolet absorbers, anti-oxidants and color pigments. The material shall be designed to provide high color integrity, excellent weatherability, good traction, resiliency and durability for normal play. Material to be fungus and mildew resistant.

C) Locks: 28 positive interlocks per module; 14 male parts on two adjacent sides and 14 female parts on two adjacent sides.

D) Support: Combination of truncated conical support legs, outside edges of modules and interlocking locations.

E) Color: Custom matched to vinyl insert.

2.10 LINE MARKING

A) Line marking, paint or tape, as recommended by sport surface manufacturer.

PART 3 – EXECUTION

3.01 SUBSTRATE

A) Substrate shall be reviewed by the contractor for contamination, dryness and level. Any deviation from specification should be reported in writing to the architect for correction.

B) Architect will implement corrections to substrate and notify installer upon completion of corrections.

3.02 INSTALLATION

A) Install suspended modular tile surface in accordance with the latest manufacturer's recommendations.

B) Lines to be installed per manufacturer's recommendations.

3.03 EXTRA STOCK

A) Supply twenty (20) pieces of tile for use by the Owner for implementing flooring repairs. Deliver extra stock to the Owner and provide written receipt upon delivery with copy to be retained by the flooring installer.