

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

SECTION 09771- ATHLETIC SURFACING - INDOOR - SUSPENDED

PART 1 – GENERAL

- 1.1 DESCRIPTION
- A) Scope
 1. The furnishing of interlocking suspended synthetic (high impact polypropylene copolymer proprietary formulation) modular tile system.
 2. Game lining.
- 1.2 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.
- 1.3 QUALITY ASSURANCE
- A) Acceptable Manufacturer:
 1. The manufacturer shall be a firm experienced in the manufacturing of interlocking suspended synthetic floor systems for over 35 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 10 year limited warranty on materials.
- 1.04 SUBMITTALS
- A) Submit samples of the actual sports surface in the standard color and manufacturers literature, as required by Section 01340.
- 1.05 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 SUSPENDED SYNTHETIC MODULAR TILE SYSTEM
- A) Prefabricated tile system: Inline Arena Tile, as manufactured by Mateflex Modular Surfaces, Utica, NY.
 - B) Dimensions: 12" x 12" x 1/2"
 - C) Weight: 0.75 lbs. (12 oz.)
 - D) Top wear surface .076" thick.
 - E) Support: Gusseted geometric ribs.
 - F) Static Loading: 125 psi.; 18,000-lb./sq. ft.
 - G) Locks: 20 latch locks. 2 sides with 5 male parts each. 2 sides with 5 female parts each.

Inline Arena Tile

- H) Material: All modules shall be made from a proprietary blend of 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.
- I) Service range: -50 to 275 degrees F.
- J) Flammability (1): Meets UL94-HB standard – “Self extinguishing”.
- K) Flammability (2): ASTM D2859 – Flammability of Finished Floor Covering Materials: Passed.
- L) Ball Rebound: 99% concrete.
- M) Rolling Load: 1000N - Pass

2.2 LINE MARKING

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

PART 3 – EXECUTION

3.1 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.

3.2 INSTALLATION

- A) Install suspended modular tile sports surface in accordance with the latest manufacturer’s recommendations.
- B) Lines to be installed per manufacturer’s recommendations.

3.3 EXTRA STOCK

- A) Supply twenty (20) pieces of tile for each color installed 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.

Inline Arena Tile

Inline Arena Tile™

ENGINEERING SPECIFICATIONS

DESCRIPTION	TEST	VALUE/RESULT	UNITS
Tile Size		12 x 12 x ½	In.
Top Wear Surface		0.076	In.
Weight		12	Oz.
Material		PP Copolymer	
Locking System		Snap Latch	
Number of Locks		20	
Horizontal Lock Tolerance		X axis = .058 Y axis = .040	In.
Tensile on Connector		1008	Lb./Tile
Top Support Posts		Isometric ribs	
Vertical Loading		18,000	Lbs.
Drop Weight Impact @-23C	Himont method	18	Ft-Lbs.
Flatness Test		0 +/- .13 (.005)	Mm In.
Ball Rebound		99%	
Anti-Microbacterial		Yes	
Agency Rating/Spec.		FDA food contact approved	
UV Stabilized		Yes	
Chemical Resistance		Excellent	
Flame Class	UL94HB	Pass	
Flame Spread	Index 70	(Class B/II)	
CLTE		6 x 10 ⁻⁵	In/in °F
Rockwell Hardness	D785A	82	
Low Temperature Brittleness		-30 -34.4	Deg. F Deg. C
E-Modulus	D638	125,000	Psi
Flex-Modulus	D980B	120,000	Psi
Tensile Strength at Yield	D638	3,100	Psi
Elongation at Yield	D638	10	%
Notched IZOD	D256A	No Break	Ft.Lbs/In.
Deflection Temp.	D648	190	Deg. F
Vicat Softening Point		324	Deg. F
Warranty		10 year limited	