

**SECTION 09624 - SYNTHETIC ATHLETIC FLOORING****PART 1 - GENERAL****1.1 DESCRIPTION**

- A. Scope
  - 1. The complete installation of synthetic sports surfacing system including the interlocking high-impact polypropylene tile and striping.
- B. Related work specified under other sections.
  - 1. CONCRETE SUBFLOORS - SECTION 03\_ \_ \_
    - a. The general contractor shall furnish and install the concrete subfloors, depressing the slab sufficiently to accommodate the floor system.
    - c. The slab shall be broom finished to a tolerance of 1/8" in any 10' radius. Floor Flatness and Floor Levelness (FF and FL) numbers are not recognized. High spots shall be ground level and low spots filled with approved leveling compound.
  - 2. MEMBRANE WATERPROOFING - SECTION 07\_ \_ \_
    - a. Concrete subfloors on or below grade shall be installed over a suitable moisture retardant membrane. Water vapor membrane shall comply with specifications in ASTM E 1745-97 (2004). NOTE: Polypropylene tiles are not affected by moisture.
  - 3. GAME STANDARD INSERTS - SECTION 11\_ \_ \_

**1.2 REFERENCES**

- A. ASTM (American Society for Testing & Materials)
  - 1. ASTM C1028
  - 2. ASTM D 256
  - 3. ASTM D 638
  - 4. ASTM D 648
  - 5. ASTM D 696
  - 6. ASTM D 785
  - 7. ASTM D 1929
  - 8. ASTM E 1745
  - 9. ASTM G-21

**1.3 SUBMITTALS**

- A. Sport Court® PowerGame™ specifications.
- B. One sample of specified system, if requested by Architect.
- C. Sport Court Synthetic Care & Maintenance Guide.
- D. Current installation instructions as published Sport Court.

**1.4 QUALITY ASSURANCE**

- A. MATERIAL SUPPLIER: Shall be Sport Court.
- B. INSTALLER:
  - 1. The complete installation of the flooring system, as described in these specifications, shall be carried out by an experienced installer (Flooring Contractor), and the work shall be performed in accordance with current installation instructions of Sport Court.
  - 2. Installer (Flooring Contractor) shall be liable for all matters related to installation for a period of one year after the floor has been substantially installed and completed.

**1.5 DELIVERY, STORAGE AND HANDLING**

- A. Materials must be delivered in Sport Court's original, unopened and undamaged packaging with identification labels intact.
- B. Store material protected from exposure to harmful weather conditions, on a clean, dry, flat surface protected from possible damage.
- C. Storage conditions shall be 55°F to 80°F.

**1.6 SITE CONDITIONS**

- A. Installation of synthetic materials shall not commence until all other finishes and overhead mechanical trades have completed their work in the synthetic floor areas.

- B. Permanent heat, light and ventilation shall be installed and operating during and after installation. Subfloors shall be clean, dry, free from dirt, dust, oil, grease, paint, old adhesive residue, or other foreign materials.
- C. Moderate room temperature of 65°F to 80°F shall be maintained for 72 hours prior to, during, and 72 hours after installation.
- D. Flooring installation shall not begin until levelness of the concrete subfloors have been met. The installation area shall be closed to all traffic and activity for a period to be set by the flooring contractor.
- E. Environmental Limitations
  - 1. Comply with Sport Court's requirements.
  - 2. Adhere to all MSDS requirements for materials employed in the work. Protect all persons from exposure to hazardous materials at all times.
- F. After synthetic floors are installed and the game lines painted, the area is to be closed to allow curing time for the system. No other trades or personnel are allowed on the floor until it has been accepted by the owner.

## 1.7 WARRANTY

- A. Sport Court warrants that the materials it has supplied will be free from manufacturing defects for a period of ten (10) years. The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied in operation of law or otherwise, including, but not limited to, any implied warranties of merchantability or fitness. This warranty is expressly limited to the flooring materials (goods) supplied by Sport Court. This warranty does not cover floor damage caused (wholly or in part) by fire, winds, floods, moisture, other unfavorable atmospheric conditions or chemical action, nor does it apply to damage caused by ordinary wear, misuse, abuse, negligent or intentional misconduct, aging, faulty building construction, concrete slab separation, faulty or unsuitable subsurface or site preparation, settlement of the building walls or faulty or unprofessional installation of Sport Court flooring systems.
- B. Sport Court shall not be liable for incidental or consequential losses, damages or expenses directly or indirectly arising from the sale, handling or use of the materials (goods) or from any other cause relating thereto, and their liability hereunder in any case is expressly limited to the replacement of materials (goods) not complying with this agreement or, at their election, to the repayment of, or crediting buyer with, an amount equal to the purchase price of such materials (goods), whether such claims are for breach of warranty or negligence. Any claim shall be deemed waived by buyer unless submitted to Sport Court in writing within 30 days from the date buyer discovered, or should have discovered, any claimed breach.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Sport Court PowerGame™ Suspended Flooring - Imperial, gid-top design shall be, high-impact polypropylene, copolymer suspended modules with 907 support leg structure as supplied by Sport Court. The tile shall have a patented positive locking system.
- B. Size – 12" x 12" x 5/8" (30.48cm x 30.48cm x 15.8mm)
- C. Weight - 0.70 lbs. (315g)
- D. Material Test Results
  - 1. Rockwell hardness (ASTM D 785): 78 R
  - 2. Heat deflection @ 66 psi (ASTM D 648): 73°C
  - 3. Auto-ignition temperature (ASTM D 1929): 570°C
  - 4. CLTE: (ASTM D 696): 9.52 mm/mm°C x 10<sup>-5</sup>
  - 5. Tensile Yield Strength (ASTM D 638): 3200 psi
  - 6. Elongation at Yield (ASTM D 638): 6%
  - 7. Notched Izod (ASTM D 256): 9.5 (FT-LBS / IN) at 23°C
- E. Product Test Results
  - 1. Friction Test (ASTM C1028) Dry /Wet: 0.65 / 0.86
  - 2. Flatness: 0.0mm
  - 3. Lateral Forgiveness™: +0.065 / -0
- F. Load Bearing Capacity: 170 psi

- H. Sanitary Information
  - 1. Resistance to fungi (when tested in compliance with ASTM G-21 and MIL standard 810-D procedure 508.3). All basic organisms tested (ATCC #6205-11797) and were found to have zero growth.
  - 2. Resistance to the following:
    - a. Bacteria and mildew resistance
    - b. Gram-positive bacterial Staphylococcus Aureus
    - c. Gram-negative Klebsiella Pneumoniae
    - d. Pink-staining organism
    - e. STV Reticulum
    - f. Surface fungi growth prior to and following leaching
- I. Game Line Paint
  - 1. Primer – proprietary tile primer as supplied by Sport Court.
  - 2. Paint – aliphatic polyurethane as supplied by Sport Court. Select from standard colors.

### **PART 3 - EXECUTION**

#### **3.1 INSPECTION**

- A. Inspect concrete slab for contamination, dryness and levelness. Report any discrepancies to the general contractor.
- B. Concrete slab shall be broom cleaned by the general contractor.
- C. Installer (Flooring Contractor) shall document all working conditions as specified in PART 1 – GENERAL prior to starting installation. Report any discrepancies to the general contractor.

#### **3.2 INSTALLATION**

- A. Floor will be installed to pre-approved layout.
- B. Proper expansion must be at all vertical obstructions minimum of 3/4 Inch
- C. Floor surface shall be clean and free of debris.
- D. Game Lines
  - 1. Use only high-quality masking tape approved by Sport Court.
  - 2. Lines shall be primed and painted using Sport Court primer and recommended aliphatic polyurethane paint.
  - 3. Provide game lines as indicated on drawings.
- E. Remove all excess and waste materials from the area of work. Dispose of empty containers in accordance with federal and local statutes.

**END OF SECTION 09624**