

SECTION 09624 – MODULAR ATHLETIC FLOORING**PART 1 - GENERAL****1.1 DESCRIPTION****A. Scope**

1. The complete installation of modular sports surfacing system including the interlocking suspended high-impact polypropylene copolymer tile of proprietary formulation, supportive acoustical underlayment 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.
 - c. The slab shall be steel troweled to a medium-dense finish to a tolerance of $\pm 1/8$ " 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. GAME STANDARD INSERTS - SECTION 11__ __

1.2 REFERENCES

- A. ASTM (American Society for Testing & Materials) ASTM C1028
- B. ASTM D 256
- C. ASTM D 638
- D. ASTM D 648
- E. ASTM D 696,
- F. ASTM D 785
- G. ASTM E 1745
- H. ASTM D 1929
- I. ASTM G-21

1.3 SUBMITTALS

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

1.4 QUALITY ASSURANCE**A. MATERIAL SUPPLIER:**

1. Shall be Sport Court, Inc.
2. Manufacturer must be ISO 9001:2008 Certified to assure proper quality control.
3. Product must have factory applied urethane coating.

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, Inc.
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.
3. Successful bidder must submit a minimum of five (5) completed modular projects of similar magnitude and complexity within the last two (2) years. Bidder must provide tile samples and product accessories as well as maintenance information.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Materials must be delivered in manufacturer'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. In order to prevent damage and not void the warranty, installation of modular materials shall not commence until all other finishes and overhead mechanical trades have completed their work in the modular floor areas.
- B. Permanent heat, light and ventilation shall be installed and operating during and after installation. Subfloors shall be clean, dry and free from dirt, dust, oil, grease, paint, old adhesive residue or other foreign materials.
- C. Moderate room temperature of 55°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 concrete subfloors has 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 modular floors are installed and the game lines painted, the area is to be closed to allow curing time for the system, typically 3-5 days. No other trades or personnel are allowed on the floor until it has been accepted by the owner.

1.7 WARRANTY

- A. Sport Court provides a limited warranty of twelve (12) years on the materials it has supplied. (A copy of the full warranty, with its Terms and Exclusions, is available from the authorized Sport Court Dealer.) 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 Response HG™ Patented Suspending Flooring - Metric, solid-top design shall be, high-impact polypropylene, copolymer suspended modules with a 281 hexagonal cell support structure as supplied by Sport Court. Proprietary Maple Graphic and solid color design with a factory applied, wear resistant, polyurethane clear coat. The tile shall have a patented positive locking system.
- B. Standard Colors: Maple Select, Maple, Dark Maple, Pearl Burgundy, Pearl Navy Blue, Royal Blue, Ultra Red, Pearl Evergreen, Black, Silver
- C. Size – 9.842" x 9.842" x 1/2" (25cm x 25cm x 12.7mm)
- D. Weight - 0.62 lbs. (280g).
- E. Material Test Results
 - 1. Rockwell hardness (ASTM D 785): 65 R
 - 2. Heat deflection @ 66 psi (ASTM D 648): 85°C
 - 3. Tensile Yield Strength (ASTM D 638) 3,000 psi

4. Elongation at Yield (ASTM D 638) 5%
5. Notched Izod (ASTM D 256) 4.0 (FT-LBS / IN) at 23°C
- F. Product Test Results
 1. Friction Test (ASTM C1028) Dry /Wet: 0.60 / 0.67
 2. Flatness: 0.0mm ±0.25mm
 3. Lateral Forgiveness™: +0.045 / -0
- G. Load Bearing Capacity: 200 psi
- H. Underlayment – Multi-purpose recycled rubber underlayment having a thickness of one and a half millimeters (1.5mm) and a density of 40-50 pounds per square foot, and a Durometer of 60 ±5 on the Shore M or Shore A scales.
- I. 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
- J. Game Line Paint
 1. Adhesion Promoter – proprietary tile adhesion promoter 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, mopped and dust free 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 general contractor.

3.2 INSTALLATION

- A. Underlayment – One and a half millimeter (1.5mm) rubber underlayment will be unrolled and allowed to relax. All butt joints shall be properly trimmed, fitted, and seamed together with an approved all-purpose tape.
- B. Floor will be installed to pre-approved layout.
- C. Minimum clearance at all vertical obstructions of 3/4 inch is required
- D. Floor surface shall be clean and dust free.
- E. Game Lines
 1. Use only high quality masking tape approved by Sport Court.
 2. Lines shall be primed and painted using Sport Court proprietary adhesion promoter and recommended aliphatic polyurethane paint.
 3. Provide game lines as indicated on drawings.
- F. Wall Base (optional) - Install cove base anchored to walls with base cement.
- G. 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