



VERSACOURT™

VersaCourt Tile System Specification

PART I – GENERAL

1.01 DESCRIPTION

- A. Scope of work
Furnishing of materials for the flooring system described below. The flooring is a modular interlocking suspended plastic tile system. Includes installation, application of game lines, and maintenance instructions for the flooring system.
- B. Related Work Specified Elsewhere
 - 1. Installation of concrete, asphalt, or other base material.
 - 2. Preparation of base to provide a semi-smooth surface finish with tolerances of (+) or (-) ¼" in any 10' radius.
 - 3. Membrane waterproofing as determined by the project engineer.

PART II – WARRANTIES

2.01 MANUFACTURER'S LIMITED WARRANTY

- A. VersaCourt court tiles shall be warranted by the manufacturer for any defects in materials and workmanship for a period of 15 years from the date of purchase as set forth in the manufacturer's standard limited warranty.

2.02 INSTALLERS

- A. Installer shall provide a one (1) year warranty on his workmanship as it pertains to the installation of the modular flooring and accessories.

PART III – PRODUCT

3.01 MATERIALS

- A. VersaCourt court tiles
 - 1. Description – An injection molded, high impact plastic tile supplied in pre-assembled 4 units by 4 units sheets.
 - 2. Size – 10" x 10" x 3/4" thick
 - 3. Material – Specially blended high impact polypropylene copolymer. UV stabilizer and anti-oxidant additives are molded into each tile to insure protection against color fade and plastic deterioration & oxidations. The tile also have an anti-static additive which reduces static buildup on players on court.
 - 4. Surface Texture – Specially designed open grid that provides a high grip surface in all weather conditions.
 - 5. Tile Interlocking Mechanism – The tile interlocking system is designed to allow for thermal expansion and contraction with out causing the surface to buckle. It also provides the player with lateral forgiveness.
 - 6. Colors – Available colors are: Black, Olive Green, Slate Green, Rust Red, Burgundy, Hunter Green, Yellow, Sand, Royal Blue, White, Graphite, Purple, Gray, Bright Red, Orange, Navy Blue, Light Blue
 - 7. Support Structure – Each tile is supported by 155 cross posts. This provides a stable base while at the same time vertical flex.
 - 8. Weight – 7 oz.



- B. VersaCourt court tiles line
1. Description – An injection molded, high impact plastic line tile. Used to inlay straight lines in a court.
 2. Size – 10" x 2" x 3/4" thick
 3. Material – Same as tile
 4. Surface Texture – Same as tile
 5. Tile Interlocking Mechanism – Same as tile
 6. Colors – Same as tile
 7. Support Structure – Same as tile
 8. Weight – 1.5 oz.
- C. VersaCourt court ramp tiles
1. Description – An injection molded, high impact plastic ramp tile. Used around the edge of court as ramp from ground to tile level.
 2. Size – 10" x 2" x 3/4" thick
 3. Material – Same as tile
 4. Surface texture – Smooth
 5. Tile Interlocking Mechanism – Same as tile
 6. Colors – Same as tile
 7. Support Structure – Same as tile
 8. Weight – 1.6 oz.
- D. Line Stripe Painting
1. Primer- Used to promote adhesion between the tile surface and the paint.
 2. Paint – Used to mark the playing lines required in various sports.
 3. Logos – Custom logos may also be painted onto the surface of the tile.

PART IV – PHYSICAL PROPERTIES

4.01 MATERIAL TEST RESULTS

- A. Rockwell hardness (ASTM D 785): 74
- B. Heat Deflection @ .455 MPa (ASTM E 648): 195
- C. Flaming at 1000mm (ASTM E 648): 4 min 45s
- D. Auto-ignition temperature (ASTM D-1929): 980°F
- E. Vicat softening point (ASTM D-1525): 260°F
- F. Low Temperature Brittleness (ASTM D-2137): -25°F
- G. Coefficient of Linear Thermal Expansion, (ASTM D-696, E-831): 63×10^{-6} (in/in)/°F
- H. E-Modulus (ASTM D-5418) 126,000 psi (850MPa)
- I. Flex Modulus (ASTM D-790) 122,000 psi
- J. Tensile Yield Strength (ASTM D-638) 3,300 psi
- K. Elongation at Yield (ASTM D-638) 18%
- L. Notched Izod (ASTM D-256) 15 ft-lb / in at 20°C

4.02 PRODUCT TEST RESULTS

- A. Flame Spread Index (ASTM E-162): 4 min. 30 sec.
- B. Smoke Development (ASTM E-162): 1 min. 46 sec.
- C. Radiant Panel (ASTM E-84,162,648): .12 Watts/cm²
- D. Friction Test (ASTM C-1028): Dry<.71, wet<.52
- E. Compression vs. Crush (ASTM D-3998): No Break
- F. Noise Reduction Coefficient (ASTM C-423): 25%
- G. R-Value: < 1.0



- H. Flatness: $\pm 1.5\text{mm}$
- I. Load Bearing Capacity: 180 psi

PART V – EXECUTION

5.01 INSTALLATION

- A. VersaCourt court tile
 - 1. Court tiles will be installed according to pre-approved layout.
 - 2. Court tiles will be installed and/or supervised according to manufacturers specifications by an authorized, factory trained dealer or representative.

- B. Game line painting
 - 1. Floor surface shall be clean, dry and free of debris.
 - 2. Lines shall be primed using Klean Strip's Bulldog adhesion promoter and then painted using Sherwin Williams Acrolon polyurethane paint.

5.02 MAINTENANCE

- A. Maintenance Procedure
 - 1. It is recommended to keep the surface free of leaves, limbs and grass clippings by using a leaf blower. Every 2-3 years it may be necessary to pull the tile up and sweep out any dirt or debris that may have accumulated under the tile.

