



VersaCourt® Speed Outdoor Flooring Specification

PART I– GENERAL

1.01 DESCRIPTION

A. Scope of Work

Furnishing of materials of the flooring system described herein, including the interlocking suspended synthetic (polypropylene high impact copolymer of proprietary formulation) modular tile system and complete installation thereof, and application of game lines, as well as maintenance instructions for the system.

B. Related Work Specified Elsewhere

- a. Installation of concrete, bituminous, or wood substrate.
- b. Preparation of substrate to provide a medium dense finish with level tolerances of + or - 1/8" (3.2mm) in any 10' (3.04m) radius.
- c. Membrane waterproofing as determined by project engineer. NOTE: VersaCourt flooring surfaces not affected by moisture underneath; however, the tile surface can become slick when water is present on the surface.

1.02 QUALITY ASSURANCE

A. Acceptable Installer

- a. VersaCourt® shall supervise the flooring installation as per the installation instructions of the manufacturer.
- b. Successful bidder must submit a minimum of (3) three completed projects of similar magnitude and complexity within the last (2) two years. List of projects shall include name, address, phone number, and contact person.

1.03 STORAGE

A. Storage of Material

- a. The general contractor shall provide a secure, clean and dry location for storage of material.

1.04 JOB CONDITIONS

A. Schedule of Installation

- a. VersaCourt® flooring shall preferably not be installed until all other trades are completely finished in the area
- b. Substrate shall be level to specified tolerances, free of debris and materials, and broom-clean.

1.05 WARRANTY

A. Manufacturer's Limited Warranty

- a. VersaCourt® outdoor flooring is covered under a scaled lifetime warranty by the manufacturer for any defects in materials and workmanship.

PART II – PRODUCTS

2.01 MATERIALS

A. VersaCourt Speed Outdoor Flooring

- a. Description: Floor tiles shall consist of no break, high impact polypropylene copolymer with suspended open support structures for drainage. Each tile shall measure 9.837" x 9.837" x .5" (25cm x 25cm x 12.7mm). The tiles shall tightly interlock and utilize a spring tensioning locking mechanism enabling expansion and contraction of each tile during temperature changes.
- b. A suspended, interlocking floor system with perforated surface design with a



maximum of 30% perforation and 70% contact surface. Tile surface shall include relief profile for better skate and shoe grip with tiny pinheads to enhance puck speed and decrease friction.

- B. Underlayment
 - a. An underlayment shall not be required, however special anchors should be utilized when general roller skating takes place to prevent shifting of the floor.
- C. Line Striping
 - a. Tape: Hockey and Derby lines shall preferably be taped using 3M-471 tape, and can be re-taped every 18-24 months
 - b. Paint: A proprietary adhesion promoter and 2-Part polyurethane based, marine grade paint is required
 - c. Logos: Paint or decals

PART III – PHYSICAL PROPERTIES

3.01 MATERIAL TEST RESULTS

- A. Rockwell hardness (ASTM D 785): 71
- B. Heat deflection@ 66 psi (ASTM E 648): 190
- C. Flaming at 1000mm (ASTM E648-97): 4 min 30s
- 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): -20° F
- G. Co-efficient of Linear Thermal Expansion, (ASTM D-696, E-831): 63×10^{-6} (in/in) / ° F
- H. E-Modulus (ASTM D-5418) 110,000 psi (850MPa)
- I. Flex-Modulus (ASTM D-790) 115,000 psi
- J. Tensile Yield Strength (ASTM D-638) 3000 psi
- K. Elongation at Yield (ASTMD-638) 20%
- L. Notched Izod (ASTM D-256) 15 (ft-lbs / in) at 20° C

3.02 PRODUCT TEST RESULTS

- A. Flame spread Index (ASTM E648-97): 4m 30s
- B. Smoke Development (ASTM E-162): 1m 46s
- C. Radiant Panel (ASTM E-84, 162, 648) 0.12 Watts/cm²
- D. Friction Test (ASTM C-1028) dry < .82 wet < .55
- E. Compression vs. crush (ASTM D-3998): no break
- F. Noise Reduction Coefficient (ASTM C-423) 35%
- G. Rolling Load (DIN 18032) Good
- H. R-Value < 1.0
- I. Flatness +/- 0.03 mm
- J. Load Bearing Capacity: >140 pounds per sq.in.
- K. Resistance of Synthetic Polymeric Materials to Fungi (ASTM G21-15): Rating 0 of 4



3.03 SANITARY INFORMATION

- A. Resistance to fungi (in compliance with ASTM G-21).
 - a. Basic organisms test (ATCC #6205) indicates zero growth.
- B. 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

PART IV – EXECUTION

4.01 INSPECTION

- A. Substrate
 - a. Substrate shall be checked for contamination, dryness, and levelness. Substrates with structural failures shall be prepared insofar as to prevent tiles from catching on sharp cracks and ridges.

4.02 INSTALLATION

- A. VersaCourt Suspended Tile Flooring
 - a. Floor shall be installed to pre-approved layout.
 - b. Floor shall be installed and/or supervised to manufacturers specifications by an authorized, factory trained dealer or representative.
- B. Game Striping / Lining
 - a. Floor surface shall be clean and free of debris.
 - b. Lines shall preferably be taped using 3M-471 tape. If necessary, paint should consist of proprietary adhesion promoter and 2-part polyurethane based, marine grade paint system.

4.03 MAINTAINANCE

- A. Maintenance Procedure
 - a. Flooring contractor shall provide detailed care and cleaning procedures.
 - b. Flooring contractor shall provide a list of materials needed for proper care and maintenance of floor.
 - c. Flooring contractor shall provide a recommended tool for disassembly and reassembly.