

SECTION 09551 – Floating WOOD GYM FLOORING (Low Profile)  
Bio-Cushion LP

PART 1 - GENERAL

**RELATED DOCUMENTS:**

This specification has been developed to insure the quality of design expected by the Architect. Manufacturer's not listed should submit literature, physical samples and installation list of proposed product for review by the Architect.

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

Description: Wood flooring for basketball court.

**Quality Assurance:**

Supplier shall be a firm established in the field: Robbins, Inc. or prior approved equal.

Installer shall be a company exhibiting a minimum of ten (10) years continuous experience in the athletic flooring field and approved by the manufacturer. Submit a list of at least three completed projects of similar magnitude and complexity where this pattern of flooring was installed using maple strip flooring. Include owner references with this submittal.

Manufacturers wishing to gain prior approval shall request, in writing, for owner's qualification criteria.

**Submittals:**

Submit three copies of manufacturer's product data.

**Samples:**

Upon request of the architect, physical samples may be required for review.

**Maintenance Literature:**

Three copies of MFMA Care and Maintenance of wood floors.

**Certification:**

If required by the owner, manufacturer shall provide certification that all materials meet grade, quality and treatment if applicable.

**Delivery, Storage and Handling:**

Materials shall not be delivered to the jobsite until all masonry, painting, plastering, tilework, work is complete. All overhead mechanical work, lighting, backstops, and

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scoreboards shall be installed. Room temperature shall be 55-80 degrees and a consistent relative humidity maintained.

**Job Conditions/Sequence:**

Do not install floor system until requirements in paragraph 1.04 are obtained.

Permanent heat, light, and ventilation shall be operating and maintained during and following installation.

After floors are finished, area is to be locked by owner to allow time for curing of the finish. Owner shall protect finished floor until inspection and acceptance.

**Guarantee:**

Guarantee shall not cover damage caused in whole or in part by casualty, ordinary wear and tear, abuse, use for which materials were not designed, faulty construction of the building, settlement of the building walls, failure of other contractor to adhere to specifications, separation of the concrete slab and excessive dryness or excessive moisture from humidity, spillage, migration through the slab or wall, or any other source.

Manufacturer hereby warrants the floor system material specified herein to be free from manufacturing defects for a period of (1) one year. This warranty is in lieu of all other warranties, expressed or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose, and any other obligation on the part of Robbins Inc. In the event of the breach of any warranty, the liability of Robbins Inc. shall be limited to repair or replacing the floor material and system components supplied by manufacturer and proven to be defective in manufacture, and shall not include any other damages, either direct or consequential.

**PART 2 - PRODUCTS**

Manufacturers: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

Robbins  
Connor  
Action

Equal products of other manufacturers may be used in the work provide such products have been approved, by the Architect, not less than five (5) days prior to scheduled bid opening.

**Materials:**

Membrane - 6 mil polyethylene sheeting

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Robbins "BIO-CUSHION resilient component:

Resilient mount shall be " Zero/G Continuous Shock Pad.

Robbins "BIO-CUSHION" subfloor system:

Lower layer - 1/2" x 4' x 8' CDX plywood. Exterior grade Fir on SYP.

Upper layer - 1/2" x 4' x 8' CDX plywood. Exterior grade Fir on SYP.

Subfloor fasteners - One inch coated staples or equivalent

Subfloor adhesive - PL-400 Construction adhesive.

Flooring fasteners - Two inch barbed floor cleats or staples

Maple flooring - Continuous Strip XL, 2&Btr. , solid Northern Hard Maple. Flooring to be milled to a minimum thickness of 1/2" x 2-1/4" with wear surface greater than .250" , random length, finger-jointed and graded in accordance with MFMA grade rules. All flooring to be tongue & grooved, end-matched and kiln-dried. Flooring to include pressure-ridge technology as manufactured by Robbins.

Perimeter base: Robbins Inc. Vent-Cove, or approved equal. Color shall be Black.

Finishing material:

Robbins Inc. "Miracle" Sealer or MFMA-approved equal.

Robbins Inc. "Miracle" Finish or MFMA-approved equal.

Gameline paint: All painting of lines and symbols on court system shall be

Industrial enamel in colors as selected by the Owner.

Expansion joint cover at edge of all wood and concrete: Architectural Art MFG, Inc Model #K20-16-11, Aluminum. Equal approved by the flooring manufacturer may also be used.

### **PART 3 - EXECUTION**

#### **Inspection:**

Inspect existing floor for proper dryness and tolerance and report any discrepancies to the owner in writing.

All work required to put the existing floor in acceptable order shall be the responsibility of this contractor.

Subfloor shall be provided to the contractor free of all equipment and broom cleaned.

#### **Installation:**

"Bio-Cushion" flooring system:

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Install polyethylene with joints lapped a minimum four inches (4").

Install "Zero/G" pad on over entire subfloor. Tape edges to prevent curling.

Position plywood perpendicular to the intended course of the maple flooring. Stagger all joints and space panels 1/4" apart.

Install second layer of plywood diagonal to direction of finish flooring. Stagger all joints and space panel 1/4" apart. Secure panel with construction adhesive and staples placed 12" O.C. with perimeter staples placed 6" O.C.

Machine nail maple flooring to plywood subfloor straight lay pattern. All end joints shall be driven up tightly and proper spacing allowed for humidity changes affecting the floor. Flooring contractor shall be allowed to incorporate spacer joints in the floor to insure adequate expansion and to adjust for pattern creep.

Provide 2" expansion voids at all walls and vertical obstructions.

**Sanding:**

Sand floor using coarse, medium, and fine paper. After sanding, run 100 grit screen over entire floor with rotary sander.

Clean floor to remove all dust and debris prior to sealing wood.

**Finishing:**

Apply two coats of gym sealer and two coats of gym finish.

Gamelines shall be placed on floor between seal and finish coats.

Gamelines to consist of basketball and volleyball courts or as indicated on the drawings.

**Perimeter molding:**

Install vented rubber base at all walls with screws or adhesive. Use pre-formed outside corners and neatly miter all inside corners.

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