

## **SECTION 09550**

### **MAPLE AEROBICS & BASKETBALL FLOORING**

#### **1.01 DESCRIPTION**

- A. The information herein details the Action Thrust I maple floor system as supplied by Allied Products, LLC. A low profile cushioned system comprised of two layers of plywood crossed and tacked with AirFlex (or ProFlex) natural rubber cushioning pads affixed to the bottom layer of plywood with maple strip flooring nailed to the top layer of plywood.
- B. The general contractor shall provide a level slab, steel troweled to a tolerance of + or - 1/8" in a 10'0" radius and subject to the approval of the wood floor contractor. Moisture barriers must be adequate for conditions. The concrete slab is to be depressed 1-3/4" plus the thickness of the flooring specified.

#### **1.02 QUALITY ASSURANCE**

- A. All system component parts to be supplied by Allied Products, LLC P.O. Box 1431 Sherwood, OR 97140 1-800-864-1272 Fax: 503-625-3748.
- B. Flooring materials must be allowed to acclimate to building conditions on the job site in a dry, well-ventilated area, not in contact with masonry, and shall be installed at a moisture content not to exceed 8% except in areas of constant high humidity where the moisture content of the flooring shall not exceed 10%.

#### **1.03 WORKING CONDITIONS**

- A. The wood flooring shall not be installed until all masonry, plastering, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in wood floor area. The building must be reasonably dry; all openings must be closed in; permanent heating and air conditioning installed and operating.
- B. The subfloor shall be dry, free of foreign materials, and turned over to the wood flooring contractor broom clean. Moderate room temperature of 65 degrees or more shall be maintained a week preceding and throughout the duration of the work. Humidity conditions within the building shall approximate humidity conditions that will prevail when the building is occupied. Care should be taken to maintain humidity within the range of 35% to 60%.

## 1.04 WARRANTY

- A. Manufacturer warrants the material it ships to be free from defects in materials and workmanship for a period of one year and the flooring installer warrants the installation of the flooring to be free of defects in materials and workmanship for a period of one year. The exclusive remedy under this warranty shall be replacement of defective material or correction of defective installation by the flooring installer. All implied warranties of merchantability or fitness for intended use are limited to the period of this warranty. This warranty excludes consequential damages.
- B. This warranty does not cover damage caused by fire, winds, floods, chemicals or other abuse or by failure of other contractors to adhere to specifications, or neglect of reasonable precaution to provide adequate ventilation during hot and humid weather. This warranty also excludes damage due to excessive dryness or excessive moisture from humidity, spillage, migration, through the slab or wall or any other source. This warranty also excludes damage to floors due to ordinary wear and tear, faulty construction of the building, (other than the flooring installation), separation of the concrete slab underlying the floor, settlement of the walls, or use of water on the floor.
- C. During the warranty period, the floor cannot be coated without the permission of the floor contractor.

## 2.01 MATERIALS

- A. Flooring
  - 1. Flooring shall be hard maple standard strip flooring, 25/32" (or 33/32") x 2-1/4" (or 1-1/2") as supplied by Allied Products, LLC P.O. Box 1431 Sherwood, OR 97140 1-800-864-1272 Fax: 503-625-3748.
  - 2. Grades available are MFMA 1st, 2<sup>nd</sup>&Btr., 3<sup>rd</sup>&Btr., and 3<sup>rd</sup> grade.
  - 3. Random lengths and long-length strips.
  - 4. Wood Flooring may be treated by Woodlife F when specified.
- B. Subfloor
  - 1. Vapor barrier shall be 6-mil polyethylene.
  - 2. The pads should be AirFlex 48 durometer (or ProFlex 60 durometer as required) 3/4" thick natural rubber pads.
  - 3. Panels shall be 1/2" (15/32") x 4' x 8' four ply plywood sheathing.
  - 4. Tack nails shall be 1" cleats or 1" 13-gauge staples.
  - 5. Flooring fasteners shall be 2" cleats or 2" staples.
  - 6. Wall base shall be 4" x 3" vented cove base with premolded corners (specify black or brown), as supplied by Allied Products, LLC.

Page 2/4

Allied Products, LLC

P.O. Box 1431 Sherwood, OR 97140

Ph: 503-625-3746 Fax: 503-625-3748 Toll Free: 1-800-864-1272 [www.alliedproductsllc.com](http://www.alliedproductsllc.com)

Rubber, Bamboo & Maple Flooring | Athletic Surfaces | Racquetball & Squash Courts

### **3.01 INSPECTION**

- A. Inspect concrete slab for proper tolerance and dryness reporting any discrepancies in writing to the general contractor.
- B. All work to put the concrete slab in acceptable condition shall be the responsibility of the general contractor.
- C. Slab shall be broom cleaned by the general contractor.

### **3.02 INSTALLATION**

- A. Cover concrete slab with poly lapping edges 6”.
- B. AirFlex (or ProFlex) pads shall be attached to the underside of the first layer of plywood 12” O.C. 32 pads per 4’ x 8’ sheet.
- C. Place the first layer of plywood diagonal or perpendicular to the intended direction of the finished flooring.
- D. Tack the second layer of plywood without pads at a 45-degree angle or at right angles to the first layer. No joint in the second layer of plywood shall coincide with a joint in the first layer. Allow ¼” between panels at sides and edges, and a 2” expansion void at walls and vertical obstructions on both sheets of plywood.
- E. Machine nail strip flooring into second layer of plywood parallel to the long dimension of the area. Provide adequate expansion at regular intervals across the floor during installation as dictated by the average humidity conditions of the area according to the recommendations of the flooring contractor installer. Provide 2” expansion voids at perimeters and all vertical obstructions. Install vented cove base over perimeter voids and metal thresholds at doorways.

### **3.03 FLOOR SANDING**

- A. Use coarse, medium and fine grade sandpaper.
- B. After sanding with drum sander, buff entire floor using 100 grit screenback or equal grit sandpaper, with a heavy-duty buffing machine.
- C. Vacuum or tack floor before first coat of finish.
- D. Floor shall present a smooth surface without drum stop marks, gouges, streaks or shiners.

### **3.04 FINISHING**

- A. Inspect entire area of floor to ensure that the surface is acceptable for finishing, completely free from sanding dust and perfectly clean.
- B. Apply sealer and finish per manufacturer’s instructions.
- C. Screenback or steel wool and vacuum or tack between each coat after it dries.

Page 3/4

Allied Products, LLC

P.O. Box 1431 Sherwood, OR 97140

Ph: 503-625-3746 Fax: 503-625-3748 Toll Free: 1-800-864-1272 [www.alliedproductsllc.com](http://www.alliedproductsllc.com)  
Rubber, Bamboo & Maple Flooring | Athletic Surfaces | Racquetball & Squash Courts

- D. Apply game lines accurately after the seal coat, after buffing and vacuuming. Lay out in accordance with drawings. For game lines, use current rules of association having jurisdiction. Lines shall be straight with sharp edges in colors selected by the architect. Game line paint shall be compatible with finish.

### **3.05 BASE INSTALLATION**

- A. Affix rubber base to wall with recommended adhesive or screws. Miter all corners carefully. Use premolded outside corners.

### **3.06 CLEAN UP**

- A. Clean up all unused materials and debris and place in onsite dumpster provided by G.C. or owner.

### **3.07 MAINTENANCE**

- A. Upon completion of floor installation, the owner, attendants or individuals in charge and responsible for the upkeep of the building are to see that the care and maintenance instructions of the MFMA are followed. Failure to do so may void warranty.