

# Sports Floor Specifications



**Action Fixed Sleeper™**  
Fixed-Sleeper System



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## ACTION FIXED-SLEEPER FLOOR SYSTEM

This fixed sleeper system utilizes anchored sleepers and 1" x 6" subfloor to give you the best dimensional stability and strength with great ball response. This fixed sleeper system and maple flooring create a high profile stable system that virtually eliminates dead spots. Action Fixed-Sleeper System is an excellent choice for middle and high school gymnasiums, college and multipurpose rooms.

### PART 1 - GENERAL

#### 1.01 Description

- A. The information herein details a high profile fixed system comprised of anchored sleepers, subfloor and MFMA maple strip flooring affixed to the top.
- 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 2-3/8" (using a 3/8" pad) plus the thickness of the flooring specified.

#### 1.02 Quality Assurance

- A. All system component parts must be supplied by Action Floor Systems, LLC.
- B. Manufacturer shall be a MFMA Mill Member, an established firm experienced in the field and have been in business a minimum of ten (10) years; Action Floor Systems, LLC or an approved equal.
- C. Manufacturer shall be solvent with no bankruptcy proceedings the previous seven (7) years.
- D. The flooring contractor must be approved by Action Floor Systems, LLC.
- E. Carbon Evaluation must be inclusive and based on all corporate facilities; offices and mills.
- F. The manufacturer and flooring shall be independently verified by the guidelines of the ISO 14064-1:2006 World Resource Institutes Greenhouse Gas Protocol, Scope 1, 2 and 3.
- G. The manufacturer and flooring shall be independently verified by the guidelines of the ISO 14040:2006 and ISO 14044:2006 Life Cycle Assessment (LCA), confirming a negative carbon footprint.
- H. The manufacturer and flooring shall be registered in the Collaborative for High Performance Schools (CHPS) Product Database.
- I. Flooring system shall be independently verified to meet or exceed the SCORES criteria for environmental design and athletic performance: Sustainable Construction of Renewable Engineered Surfaces.

#### 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 concrete slab 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 which will prevail when the building is occupied. If prior experience indicates relative humidity during sustained heating periods will fall below 35%, building engineering shall introduce moisture into the area when required. Conversely, if relative humidity increases to 50% or higher, measures should be taken to bring the relative humidity under control. This may require turning on the heat.

#### 1.04 Warranty

- A. Action Floor Systems, LLC. 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 supplied by Action Floor Systems, LLC. 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.

## PART 2 - PRODUCTS

### 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 manufactured by Action Floor Systems, LLC.
  - 2. Grades available are MFMA 1st, 2nd&Btr., 3rd&Btr., and 3rd grade.
  - 3. Action Long-Length strip.
  - 4. Wood flooring may be treated by Action Floor Systems, LLC. with Woodlife F when specified.
- B. Subfloor
  - 1. Asphalt primer shall be compatible with asphalt mastic and asphalt mastic shall be low-temperature, dead level asphalt.
  - 2. Shims shall be 1/8" and 1/4" thick tempered masonite or equal material.
  - 3. Action fixed sleepers shall be spruce, pine or fir, nominal size 2" x 4" x 8', surfaced to uniform thickness, kiln dried to 12% moisture content or less, and Woodlife F treated as supplied by Action Floor Systems, LLC.

4. Subfloor material shall be Action's Gym Grade SPF nominal 1" x 6", S2S and treated with Woodlife F by Action Floor Systems when specified. Option: 23/32"x 4'x 8' CDX Plywood.
5. Sleeper anchors shall be 2-1/4" x 3/8" steel drive pins.
6. Subfloor fasteners shall be 1" barbed cleats or staples.
7. Flooring fasteners shall be 2" barbed cleats or 2" 15-gauge coated staples.
8. Wall base shall be 4" x 3" vented cove base with premolded corners (specify black or brown), as supplied by Action Floor Systems, LLC.

## PART 3 - EXECUTION

### 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. Prime concrete slab with asphalt primer coverage per manufacturer's recommendation.
- B. Place the sleepers end-to-end in a brick pattern at right angles to the intended direction of the finished flooring with end joints staggered 24". The sleepers shall be spaced 12" o.c. (16" when using 33/32" thick flooring). Accurately level and shim sleepers firmly at each anchor point and install pins 30" o.c. Drive pin heads should be flush with top of surface of sleepers. Allow 2" voids at perimeter and vertical obstructions.
- C. After the sleepers are properly shimmed, leveled and anchored, pour a layer of asphalt mastic to cover all shims and 1/8" up the sides of the sleepers.
- D. Install 1" x 6" subfloor diagonally to sleepers. Break all joints over sleepers with ends butted and sides spaced 1". Nail or staple to sleeper. Allow 2" expansion void at perimeter and vertical obstructions. If specified in lieu of 1" x 6", install 23/32" plywood with 8' edge at right angles to sleepers. Break 4' edge of plywood over sleepers. Space all sides of plywood 1/4" and nail or staple to sleepers.
- E. Machine nail strip flooring through subfloor at each sleeper crossing. End joints must be properly driven up. 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 local Action Floor Systems, LLC. flooring contractor. Allow 2" expansion voids at perimeter and all vertical obstructions.

### 3.03 Floor Sanding

- A. Use coarse, medium and fine grade sandpaper.
- B. After sanding, 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 seal and finish per manufacturer's instructions.
- C. Buff and vacuum or tack between each coat after it dries.
- 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 remove from premises.

### 3.07 Maintenance

- A. Upon completion of floor installation, the owners, 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.

IT IS THE POLICY OF ACTION FLOOR SYSTEMS, LLC. TO CONTINUOUSLY UPDATE AND IMPROVE OUR PRODUCT LINES. THEREFORE, WE RESERVE THE RIGHT TO CHANGE, MODIFY OR DISCONTINUE SYSTEMS, SPECIFICATIONS AND ACCESSORIES OF ALL PRODUCTS AT ANY TIME WITHOUT ANY NOTICE OR OBLIGATION TO ANY PURCHASERS.