



## Padded Plywood Gymnasium Flooring Specifications

### PART 1 - GENERAL

#### 1.1 Description

- A. This document describes a wood strip gymnasium floor system consisting of prefinished beech flooring, wood subflooring, vapor retarder, finishes, game lines and wall base.
- B. The general contractor shall provide a concrete slab, troweled smooth and level to a tolerance of +/- 1/8" in a 10' radius, subject to approval of Fitness Flooring installers.

F-Numbers are not applicable for gymnasium slab applications. Labor and material necessary to put the concrete slab in acceptable condition (high areas ground down and low areas filled with appropriate leveling compounds) shall be the responsibility of the general contractor. Installation shall not proceed until the concrete slab is in acceptable condition.

- 1. The general contractor shall provide slab depressions as per manufacturer's specifications.
  - 2. Concrete subfloors shall have an adequate moisture barrier beneath and at the perimeter of the slab. Subject to local conditions.
  - 3. Sand-Poly-Sand slab construction is not acceptable.
  - 4. Concrete shall be free of washed river gravel, pea gravel, flint or hardener additives.
- C. Fitness Flooring shall provide all tools and services to install a complete wood floor system from the concrete's surface vapor polyethylene retarder, when required, upward through the final finishing, plus the installation of perimeter moldings.

#### 1.2 Quality Assurance

- A. The wood shall be prefinished European beech, tongue and groove.
- B. The flooring contractor shall be accredited by Fitness Flooring, with installers with no less than five years experience in installing Fitness Flooring's products, on-site for the duration of the wood floor installation.
- C. Flooring shall be delivered to the premises and acclimated if necessary.
- D. All skids of flooring bundles should be opened and spread out to acclimate the flooring to environmental conditions in the building, when applicable.

### 1.3 Working Conditions

- A. The floor system shall not be delivered or installed until all masonry, plastering/drywalling, tile work and overhead mechanical trades are complete. The building must be enclosed and weather tight.
- B. Permanent heat, light and ventilation shall be installed and operating before, during and after installation, controlling a temperature range of 65 degrees to 75 degrees and a relative humidity range compatible with expected environmental conditions when the facility is occupied. (Maintaining a maximum 15 percent difference between high and low humidity levels.) Expected minimum/maximum indoor relative humidity will depend upon building design, geographic location, HVAC systems, and operating schedules.

### 1.4 Warranty

- A. Fitness Flooring shall warrant the floor installation, and shall furnish a flooring materials warranty.
- B. Refer to Fitness Flooring's manufacturers warranty for specific provisions and exclusions.

## **PART 2 – PRODUCTS**

### 2.1 Materials

- A. Prefinished Flooring shall be:
  - 1. Flooring shall be prefinished 7/8" solid press-dried hardwood flooring boards as manufactured by Junckers of Denmark. Floor assembly shall consist of two strips double dovetailed and permanently end glued, end matched, assembled and milled for tongue and groove installation. Each floor board shall have a 5 1/16" X 6' 0" dimension.
  - 2. Each board shall be factory sanded, sealed, and finished with two coats of two component pure polyurethane semigloss traction coating.
  - 3. Bottom side of the board shall be sealed with a factory applied polyurethane finish.
  - 4. A minimum quality of Flamey Grade shall be used with the grade and production date stamped on the underside.
- B. Concrete slab surface vapor retarder shall be minimum 6 mil. Polyethylene.
- C. Subfloor shall be 15/32" X 4' X 8', minimum 4 ply APA Rated Sheathing, Exposure 1.
- D. Cushioning pads shall be 1/2" isolation pads as manufactured by Fitness Flooring.
- E. Floor fasteners shall be 2" barbed cleats or 15 gauge coated staples, unless otherwise indicated.
- F. Wall base shall be 4" X 3" X 4' heavy duty molded, vented, rubber or vinyl cove base with premolded outside corners as supplied by Fitness Flooring.

## **PART 3 – EXECUTION**

### **3.1 Inspection**

- A. Inspect concrete slab for proper tolerance and dryness, and report any discrepancies in writing to the general contractor for correction.
- B. The concrete slab shall be cleaned of all debris by general contractor so Fitness Flooring will have adequate access to work surface.

### **3.2 Installation**

- A. Cover entire concrete slab with surface vapor retarder, lapping joints a minimum of 6" or as specified by the vapor retarder manufacturer.
- B. Install first layer of subfloor plywood opposite the direction of the finish flooring, ¼" spacing all edges and breaking joints 4' – Provide 2" expansion voids at perimeter and all vertical obstructions. If required by Fitness Flooring, install solid blocking under bleachers in the stacked position and where portable backstops or other areas subjected to high loads as shown on architectural drawings. If required by Fitness Flooring, install recommended blocking below bleachers in the extended position. The underside of the first layer shall have 32 isolation pads per sheet attached 12" o.c. and 6" from the edges of the subfloor material on all sides. Provide 2" expansion voids at the perimeter and at all vertical obstructions.
- C. The second layer of subfloor material shall be laid diagonally (45 degrees) over the first layer ¼" spacing all edges and breaking joints 4'. Attach second layer of subfloor material with nails or staples 12" o.c. Provide 2" expansion voids at the perimeter and at all vertical obstructions.
- D. Install prefinished beech flooring parallel with the main playing court by nailing or stapling approximately 12" o.c. or as specified by Fitness Flooring.
  - 1. Space joints between flooring strips to allow for intermediate expansion in accordance with local humidity conditions
  - 2. Provide 2" expansion voids at the perimeter and at all vertical obstructions.

### **3.3 Screening (optional)**

- A. Screen the floor at a moderate speed using a new 100 or 120 grit screen under a slow speed buffer. Cross screen the floor by screening east-west, then north-south.
- B. Remove screening dust from entire surface by tack or vacuum.

### **3.4 Finishing (optional)**

- A. Inspect entire area of floor to insure that surface is acceptable for finishing, completely free from sanding dust.
- B. Paint game lines as shown on drawings. Game line paint shall be compatible with finish.
- C. Apply finish per finish manufacturer's instructions.

### **3.5 Base Installation**

- A. Install vented cove base by anchoring to walls with base cement, screws, or anchors.
- B. Miter inside corners and use premolded outside corners.

### **3.6 Maintenance**

- A. Upon completion of floor installation, the owners, attendants or individuals in charge are responsible for the upkeep of the building and are to see that the care and maintenance instructions of Fitness Flooring are followed.