



Zenterra Sport Gym Flooring

Utilizes FSC-certified plywood and reground rubber pads for a truly green floor system. Tested to meet or exceed DIN and EN safety Standards. Pre-finished flooring makes for a quick installation.

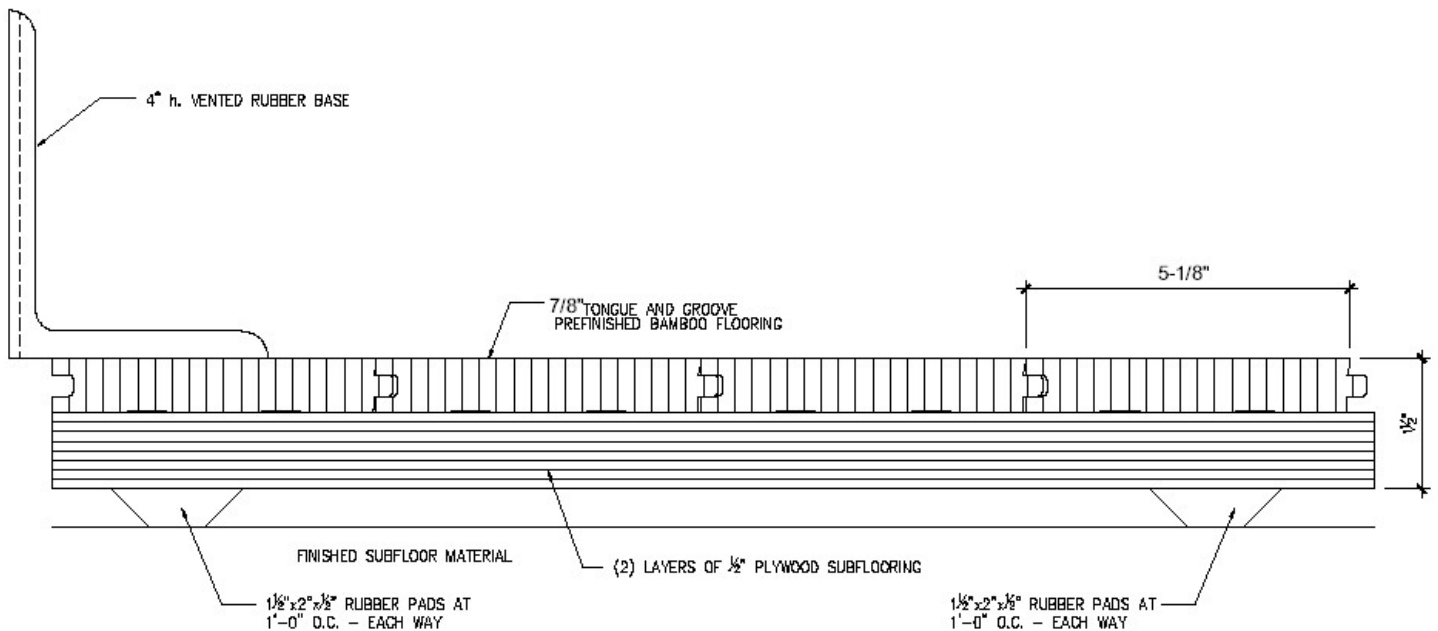
Possible LEED points available:

MR 4 – Recycled Content – 1 point

MR 6 - Rapidly Renewable Materials – 1 point

MR 7 – Certified Wood – 1 point (if FSC plywood)

IEQ 4.4 - Low Emitting Materials – 1 point



The Zenterra Bamboo Sport Gym Floor is a truly green solution to gymnasium and multi-purpose sports surfacing. It starts with 100% recycled rubber cushioning pads, made of recycled tires. These are fastened to two layers of Forest Stewardship Council (FSC) certified CDX plywood, milled from trees taken from renewable forests. On top of this subflooring is installed bamboo flooring, made from faster growing bamboo plants that may be reused for flooring applications every 5-8 years.

While this system is made using a widely utilized design, few have ensured that every piece of the flooring system is truly green.

Like most padded plywood systems, the system has a low profile at just 2 1/8" and utilizes no anchorage to the existing subfloor. The prefinished bamboo boards make for a quick install with no need for sanding and finishing after installation.

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Part I – General

1.1 Description

- A. This document specifies a bamboo strip gymnasium floor system consisting, in general of bamboo flooring, wood subflooring, vapor retarder, sanding, sealers, 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 the approval of Fitness Flooring.
F-Numbers are not applicable for multi-purpose slab applications. Labor and materials necessary to put down 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.
- B. Fitness Flooring shall provide all tools and services to install a complete bamboo floor system from the concrete's surface polyethylene vapor retarder, when required, upward through the installation of prefinished flooring, plus installation of perimeter moldings.

1.2 Quality Assurance

- A. The bamboo flooring shall be vertical\horizontal grain orientation, in natural\carbonized coloration.
- B. The flooring contractor shall be a certified Fitness Flooring Installer, on-site for the duration of the bamboo 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 any 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 55 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. Consult your Fitness Flooring contractor for specific recommendations.

1.4 Warranty

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

Part 2-Products

2.1 Materials

- A. Flooring shall be Mao-Tsu bamboo, 7/8" X 5 1/8" wide X 7' lengths, marked and stamped as Zenterra® Bamboo, produced by Fitness Flooring.
- B. Concrete slab surface vapor retarder shall be a minimum 6mil. Polyethylene.
- C. Subfloor shall be 15/32" X 4' X 8', minimum 4 ply CDX APA Rated Sheathing, Exposure 1, and FSC Certified.
- D. Cushioning pads shall be Eco-Din™ pads, 1 1/2" X 2" x 1/2" reground post-consumer rubber amalgam.
- E. Flooring fasteners shall be 15 gauge coated staples, unless otherwise specified.
- 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 cleared of all debris by general contractor so the accredited installation company 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 Fitness Flooring.
- B. Install first layer of subfloor plywood opposite the direction of the bamboo flooring, 1/4" spacing all edges and breaking joints 4' – Provide 2" expansion voids at perimeter and all vertical obstructions. The underside of the first layer shall have 32 cushion pads per sheet attached 12" o.c. and 6" from edges of subfloor material on all sides. Provide 2" expansion voids at perimeter and at all vertical obstructions.
- C. The second layer of subfloor material shall be laid diagonally (45 degrees) over the first layer 1/4" spacing all edges and breaking joints 4'. Attach second layer of subfloor material with nails or staples 12" o.c.
- D. Install bamboo flooring parallel with the main playing court by nailing or stapling approximately 12" o.c.
 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 Finishing

- A. Paint game lines as shown on drawings. Game line paint shall be compatible with finish.

3.4 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.

3.5 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.