



4777 Eastern Avenue / Cincinnati, OH 45226 / 513-871-8988 / Fax 513-871-7998

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## PORTABLE BASKETBALL FLOOR ALL-STARPLUS SPECIFICATION

### 1. GENERAL SPECIFICATIONS

- A. Furnish a portable basketball floor of 2<sup>nd</sup> grade hard maple wood. This portable floor shall be constructed of sectional panels and when assembled shall provide a floor surface of 60' wide x 112' long. Floor can be fabricated in standard straight lay pattern or Boston Square™ pattern.  
**Option: 120' x 60' (Boston Square™ pattern is at an additional charge)**
- B. Each sectional panel shall be constructed of 2 1/4" hard maple interlocking strips on top of exterior grade plywood or OSB subflooring, and a substructure of dense pine stringers with Bio-Guard protective housing and Bio-Cushion pads.
- C. Sectional panels shall be completely portable providing quick and easy assembly and disassembly by two or four person crew.  
**Optional: "ZIP" Configuration – See Detailed Specifications Page 2**
- D. Sectional panels shall interlock to form the complete floor assembly, and interlocking system shall prevent vertical movement of the individual sectional panels.
- E. Interlocking system shall be completely concealed after portable floor is assembled.
- F. All structural members of the portable floor shall be treated to provide moisture, insect and fungus protection.
- G. Cushioning Devices
  - 1. Bio-Guards--Protective housing for the cushioning pad (Bio-Cushion Pads)--a two piece protective housing capsule designed to protect the cushioning devices from damage during movement and transport of the floor while allowing total freedom of movement during use.
  - 2. Bio-Cushion Pad--3/4" thick conical shaped resilient shock absorbing pads formulated of EPDM rubber.
  - 3. Attachment Anchor--3/4" screw for securing Bio-Guards to 2"x3" sleepers.
  - 4. Stop Blocks--3/4" thick stops shall be positioned between sleepers to bear load of panels while in stacked position.
- H. Surface Appearance (OPTION: Available on a regional basis)
  - a. Expansion spaces will not exceed 1/64" (0.4mm) at time of installation and will be spread evenly across the floor with each row of flooring.
  - b. Expansion spacing will be installed to allow for normal expected increases in Equilibrium Wood Moisture Content (EMC).
- I. All work involving sanding, finishing, striping, color coating and owner's logo/design shall be completed in the manufacturer's plant. (Complete logo specifications, floor layout and colors required from owner.)

- J. Sufficient quantity of storage trucks shall be provided for rapid removal and handling of portable floor to and from the storage area. Fifteen carts are recommended for a 112' x 60' floor. Note: These trucks are optional and at an additional charge.
- K. The services of a competent working superintendent serving as the manufacturer's representative shall be provided during the actual installation and initial setup to instruct all personnel in all aspects of installation, removal, handling, storage and maintenance of the portable basketball floor. Detailed drawings and written installation instructions shall also be furnished by the manufacturer.
- L. The manufacturer shall guarantee all items of this portable basketball floor against defects in materials and workmanship for a period of one (1) year. The manufacturer shall correct any such defects within the guarantee without cost to the owner. Damages caused to said portable basketball floor by the owner during this period, as well as reasonable wear and tear, shall not be covered by this warranty.
- M. Manufacturer shall provide written evidence of installation of this portable basketball floor currently in use by ten (10) NCAA Division 1 men's basketball teams and eight (8) National Basketball Association professional basketball teams. Installation shall have taken place within the immediate past ten (10) years. This information shall be submitted with this bid.
- N. Freight charges shall be prepaid by the supplier and shall be included in this bid. Bid price shall be F.O.B. destination.
- O. Bidder must provide evidence of any deviation from these specifications including detailed drawings and statements itemizing where products deviate from or exceed these specifications. This data shall be provided with bid.
- P. Portable floors are built to exact tolerances and are designed to be installed on a clean, dry and level concrete slab with no more variation than +/- 1/8" in a 10' radius. If the owners' concrete slab has variations beyond what is recommended, the owner will experience difficulties with panel fit and non-uniformity of the playing surface. The manufacturer is not responsible for panel fit and performance problems due to non-level substrate.

## **2. DETAILED SPECIFICATIONS**

- A. Floor Size:
  - The overall size of this portable floor shall be 60' wide by 112' long.
  - Option: 120' x 60'**
- B. Fabrication:
  1. Fabrication shall consist of the construction of the series of panels described above, each with a 25/32" thick by 2 1/4" wide 2nd grade hard maple kiln dried, tongue and groove, end Matched strip flooring, laid over a substructure composed of 2" x 3", #1 selected dense pine, kiln dried, set horizontally 12" on center. **(Option: 1<sup>st</sup> or 3<sup>rd</sup> grade maple)**
    - a) **Option: FSC™ certified by Smartwood™, sustainably harvested strip maple flooring with the above dimensions.**
  2. On top of the framing members and directly underneath the hardwood playing surface a 1/2" thick exterior grade plywood or OSB subflooring shall be nailed to each, bearing not over 6" on center. One side and one end of the plywood subflooring shall project 1/2" to form a continuous tongue and groove interlock with adjacent sections.
  3. The projecting tongues shall be metal clad to prevent edge damage and to facilitate sliding of the panels into final position. Metal grooves on alternate edges shall also be provided. The panel to panel interlock system is considered to be an integral component in assembling this floor. Metal to metal connectors are required. **Wood to wood connectors are not acceptable.**
  4. All panels to be fitted with resiliency package.
    - a. Attache Bio-Guard alignment strip to each sleeper.
    - b. Position and attach Bio-Guards.
    - c. Assemble Bio-Cushion Pad and Bio-Guard capsules.
    - d. Attach stop blocks.

5. The maple flooring shall be laid with the strips running parallel to the length of each panel, and nailed through the plywood subflooring and into each framing member underneath with coated 2", 15 gauge staples or equivalent nailing cleats. The individual strips shall be slightly spaced to compensate for future expansion.
6. Prior to shipment all of the panels shall be trued and squared and brought to uniform dimensions.
7. **"ZIP" Configuration:** Floor will be installed starting with the center row of flooring "A" Row and continuing the installation in both directions, i.e. right and left sides.  
(See attached drawing)

C. Concealed Locking System:

The end and center framing members of each panel shall be fitted with a concealed locking system which interlocks each panel in the floor assembly. This concealed locking system shall consist of interlocking angles and single 3/8" diameter drop pins, except for the starting and closing rows which are laterally bolted with concealed speed bolts.

Each panel shall interlock with the adjacent panel's sides and ends to form the complete assembly and to prevent horizontal movement of the individual sections.

The outer edge of the longitudinal and end sections shall be secured together with 3/8" diameter concealed bolts.

D. Moisture, Insect, and Fungus Protection:

All structural members shall be treated for moisture and termite protection.

On completion of shop fabricating and prior to shipment, the underside of the plywood subflooring shall be given a heavy coating of pigmented moisture repellent resin paint with toxic additive to control moisture absorption and prevent attack by termites and fungi.

E. Sanding and Finishing:

The sanding, finishing and striping shall be completed in the manufacturer's plant.

The sanding process shall include traversing the surface at 45 degrees in both directions with #2 grade sandpaper, then straightened up with the same grit of sandpaper to remove all cross marks. This shall be followed by a straight cut with #1/2 grit sandpaper, and finished off with a final cut using #00 grit. After sanding, the floor surface shall be swept thoroughly clean before finishing and striping is done.

All finishing and striping shall be done with extreme care and all products shall be applied uniformly and without laps.

The sealer coat shall be a polyurethane applied at a coverage of approximately 300 square feet per gallon. After the sealer coat has dried, it shall be buffed down with a #2 grade steel wool and the floor surface thoroughly cleaned. Thereafter, the playing lines for one regulation size intercollegiate basketball court shall be striped on the floor surface, using an enamel paint. Additional markings consisting of logos, lettering and color coatings shall be included and specified at time of bid award. Additional NBA gameline markings are optional if specified.

When dry, the succeeding finish coats shall then be applied. The finish coats shall consist of two (2) coats of a polyurethane gym floor finish, applied at a coverage of approximately 500 square feet per gallon.

The use of tape or decals may harm finish.

F. Installation and Initial Setup:

Any adjustments which become necessary during the initial setup shall be made by the manufacturer's representative.

G. Storage Trucks:

Each storage truck shall be 48" wide by 96" long in dimension. Each truck shall have two (2) 6" x 2" swivel casters, and two (2) 6" x 2" rigid casters with roller bearings rated for 3,000 pound capacity weight loads, plus safety factor. Each truck shall be a flat bedded truck constructed of the frame, cross supports, and caster bolsters all of 2" x 2" x 3/16" steel angles with flanges turned down.

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