

SECTION 096466 --- WOOD GYMNASIUM FLOORING**PART 1-GENERAL****1.1 DESCRIPTION**

- A. This document specifies a wood strip athletic floor system consisting, in general, of wood subflooring, maple flooring, vapor retarder, vertical restraints (system specific), sanding, sealers, finishes, game lines, and wall base.
- B. The concrete contractor shall provide a concrete slab, smooth troweled and level to a tolerance of 1/8" (3mm) in a 10'0" (3m) radius, subject to the approval of the wood flooring contractor. LABOR AND MATERIALS NECESSARY TO PUT THE CONCRETE SLAB IN ACCEPTABLE CONDITION (HIGH AREAS GROUND DOWN AND LOW AREAS FILLED WITH APPROVED LEVELING COMPOUNDS) SHALL BE THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR.
 - 1. Concrete slab depression to use for 7/16" (11mm) padding shall be:
 - a. 2 1/8" (55mm) for 25/32" (20mm) thick flooring
 - b. 2 3/8" (60mm) for 33/32" (26mm) thick flooring
 - 2. Concrete subfloors shall have an adequate vapor retarder beneath and at the perimeter of the slab.
 - 3. No pea gravel, river gravel or slag aggregate shall be allowed in the concrete. The concrete strength range at the time of wood flooring installation shall be between 3,000 PSI and 3,500 PSI.

1.2 QUALITY ASSURANCE

- A. Supplier Qualifications
 - 1. Supplier of wood flooring shall be Horner Flooring Company.
 - 2. Basis of design shall be "Multisport Ultra" sports floor system as provided by Horner Flooring, www.hornerflooring.com.com, (800-380-0119).
 - 3. Materials other than those listed must be approved 10 days prior by written addendum. Materials from non-approved manufacturers will not be accepted.
- B. Installer Qualifications
 - 1. The flooring contractor shall be a Horner Accredited Installation Company with MFMA Accredited Installer(s) on-site for the duration of the wood floor installation or a contractor approved by Horner Flooring.
- C. Flooring shall be stored on the premises before installation commences as required for acclimation. Final determination as to acclimation will be made by the flooring contractor.
- D. System shall meet necessary DIN/EN requirements.

1.3 WORKING CONDITIONS

- A. The floor system shall not be delivered or installed until the concrete slab is properly cured and all masonry, plastering, tile work and overhead mechanical trades are completed and building is permanently enclosed and weathertight.
- B. Permanent heat, light and ventilation shall be installed and operative during and after installation, maintaining a temperature range of 55° F (13 ° C) to 75° F (24 ° C) and a relative humidity range that changes no more than 15% from low to high humidity levels.
- C. HVAC System shall be operating in balance at levels and conditions consistent with those during permanent occupancy.

1.4 WARRANTY

- A. Horner Flooring Company hereby warrants the flooring materials to be free from manufacturing defects for a period of one year from the date of substantial completion. This warranty is expressly limited to the flooring materials supplied by Horner. This warranty is in lieu of all other warranties, expressed or implied including but not limited to any warranty of merchantability or fitness for a particular purpose, and of any other obligations on the part of Horner. This warranty does not cover floor damage caused by conditions beyond our control, such as fire, wind, floor surface chemical action, faulty maintenance, improper ventilation, faulty construction of building, Act of God, ordinary wear and tear, excess moisture and excess dryness, separation of concrete slab, settlement of walls, failure of floor if not installed properly, when installed over poured urethane if poured urethane returns to its liquid state, if poured urethane releases from concrete slab or failure of floor if installed over polyvinyl chloride synthetic flooring. In the event of breach of any warranty, the liability of Horner shall be limited to repairing or

replacing material and system components supplied by Horner and proven to be defective in manufacture, and shall not include any other damages, either direct or consequential.

- B. Extended warranties are based on maintenance and yearly/annual cleaning and recoating agreements with certified contractors.

PART 2-PRODUCTS

2.1 MATERIAL

- A. Flooring
1. Flooring shall be Horner MultiSport, 7/16" (11mm) thick First, Second and Better, or Third grade. MultiSport is available in 9 5/8" (245mm) x 19.17" (490mm) units.
 2. Adhesive shall be Bostik Best Adhesive or approved equal.
- B. Subfloor
1. Subfloor panels shall be 15/32" x 4' x 8' (12mm x 122cm x 244cm) rated sheathing, exposure 1, plywood, or 7/16" x 4' x 8' (11mm x 122cm x 244cm) OSB.
OPTION: Rawl type (R-II) restraint if so specified.
 2. Cushion pads shall be 7/16" (11mm) or 3/4" (19mm) thick pyramidal-shaped Horner SAFE™ pads.
- C. Vapor retarder shall be 6 mil polyethylene.
- D. Wall Base shall be 3" x 4" (76mm x 102mm) Vent Cove heavy duty molded, vented vinyl base with premolded outside corners as supplied by Horner Flooring Company. Specify color: black or brown.
- E. Finish materials shall be as specified by architect selected from the latest listing provided by the MFMA, and shall be applied according to manufacturers

PART 3-EXECUTION

3.1 INSPECTION

- A. Inspect concrete slab for proper tolerance and dryness and report any discrepancies to the general contractor for correction.
- B. The concrete slab shall be cleaned of all debris so flooring contractor will have adequate access to work surface.
- C. All overhead work, wet trades shall be complete in floor work area.

3.2 INSTALLATION

- A. Cover concrete with 6 mil polyethylene, sealing and lapping joints a minimum of 4" (102mm).
- B. Subfloor
1. Attach 32 Horner SAFE™ pads to the underside of each bottom sheet of 15/32" (12mm) plywood or 7/16" (11mm) OSB, 12" (305mm) o.c. and 6" (153mm) in from all perimeter edges with a stapler.
 2. Install padded bottom layer of 4' x 8' (122cm x 244cm) sheets at a 45° angle across the long dimension of the finish floor, leaving a minimum 1/4" (6mm) expansion space between adjoining sheets.
 3. Install top layer of 4' x 8' (122cm x 244cm) sheets at a 90° angle to the first layer, again leaving a minimum 1/4" (6mm) expansion space between adjoining sheets. Stagger sheets and joints such that no joint in the upper layer falls over a joint in the lower layer.
OPTION: increase spacing and drill for R-II restraint installation if so specified.
- C. Parquet Preparation
1. Locate starting point either by centering off a door, a special focal point in the area, or center of area itself.
 2. Adjust center lines so they are perpendicular (90°) to each other. This can be most easily accomplished by measuring along one line three (3) feet (91cm) (or a multiple of three feet) and striking on the line itself. Measure four (4) feet (122cm) (or multiples thereof) along the second line and strike a mark. A line connecting these two (2) points should measure exactly five (5) feet (152cm) (or multiple selected). Adjust lines to form a 3-4-5 triangle -- this assures the 90° relationship. After lines are squared, drop chalk lines every thirty-three (33) inches (838mm).

D. Layout

1. Use Bostik Best Adhesive over subfloor.
2. Install MultiSport units within the grid formed by the chalk lines. Units should be installed with hairline expansion spacing around the perimeter of each unit when installed in an alternating square manner. When installing in a unidirectional or parallel pattern it is only necessary to include the hairline spacing along the sides of each unit, as maple does not shrink or swell appreciably in the grain direction.
3. Best wetting is obtained when product is installed immediately into adhesive. If more tack is needed, the freshly troweled adhesive can be allowed to remain open for up to one hour before installing MultiSport units. This will assist in keeping the units from sliding.
4. A minimum expansion space of 1½" (38mm) should be allowed around the perimeter and all vertical obstructions.
5. MultiSport should be rolled with a 150 pound (68kg) floor roller within 24 hours after installation.

3.3 FLOOR SANDING

- A. Machine sand with coarse, medium and fine paper to a smooth, even and uniform surface.
- B. Remove sanding dust from entire surface by tack of vacuum.
- C. Refer to MFMA sanding and finishing guide for procedures.

3.4 FINISHING

- A. Inspect entire area of floor to insure that surface is acceptable for finishing, completely free from sanding dust and perfectly clean.
- B. Apply seal and finish per finish manufacturer's instructions.
 1. Apply two (2) coats of seal and two (2) coats of finish.
- C. Buff and clean floor between each coat or as necessary.
- D. Paint game lines as shown on drawings, between seal coats.
- E. Game line paint shall be compatible with finish.

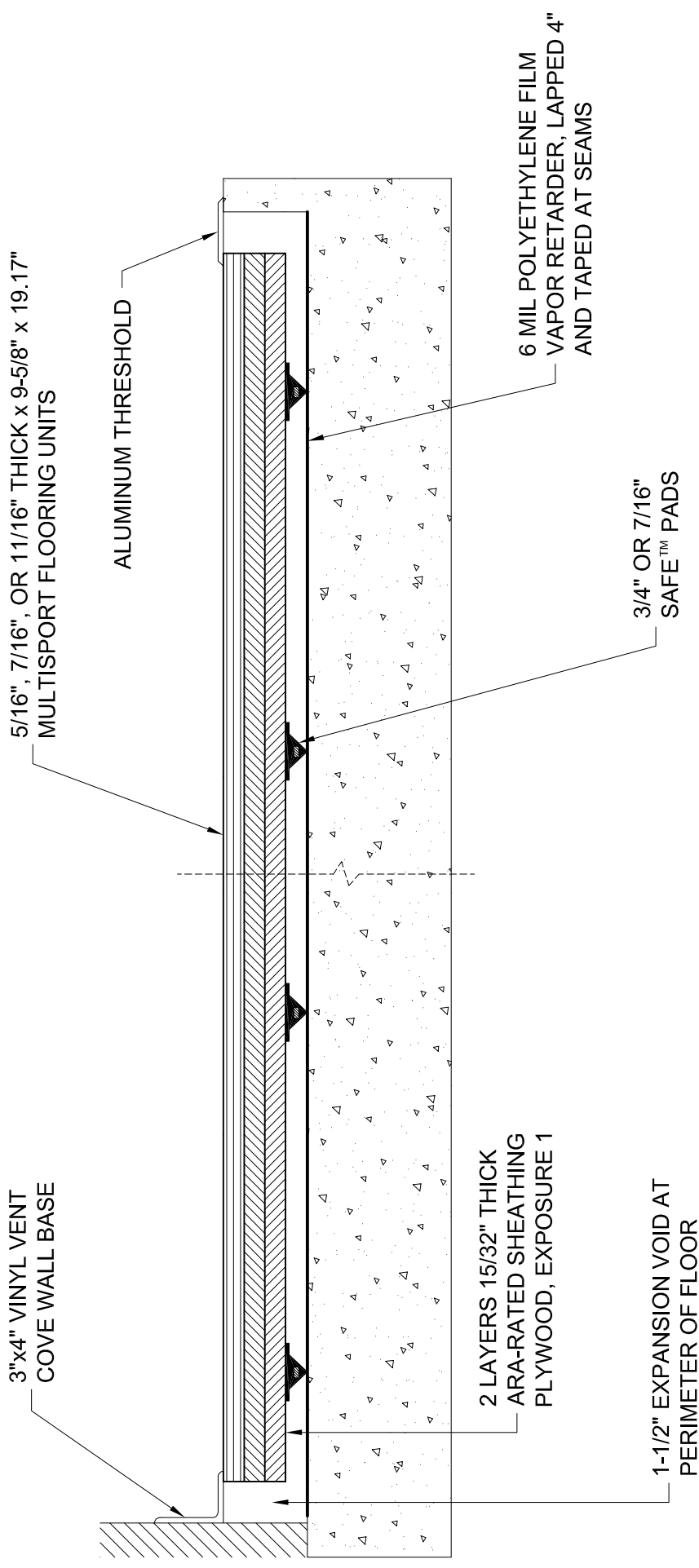
3.5 BASE INSTALLATION

- A. Install Vent Cove base, mitering inside corners and anchoring to walls with base cement or screws and anchors.

3.6 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 outlined within the provided Horner Care and Maintenance Manual are followed. Horner flooring and certified dealers may offer extended warranty and maintenance agreements. It is recommended that any extended agreements include maintenance and recoats by the original installing contractor or related/recommended parties. (See maintenance/cleaning and recoating information on Horner Flooring website).

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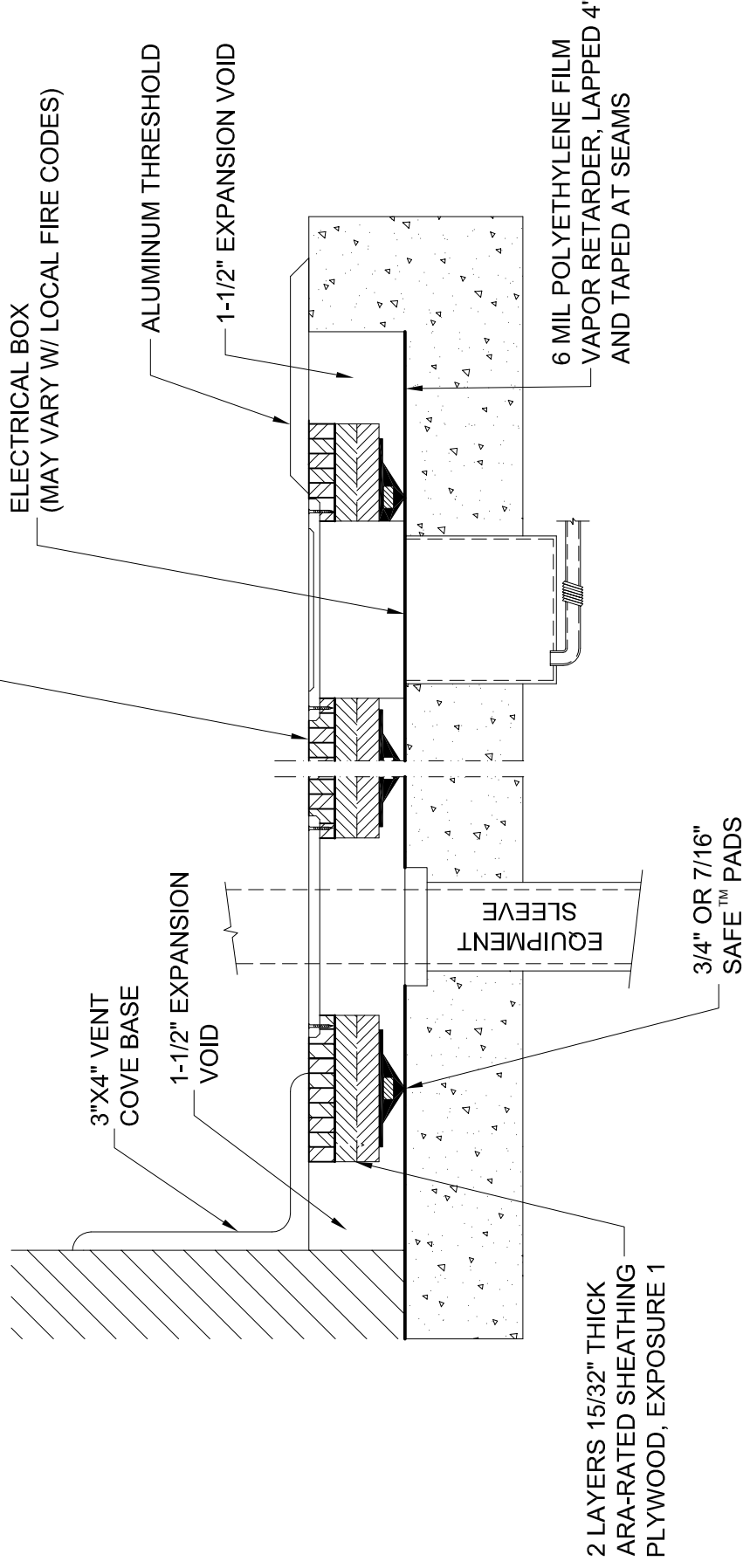


MULTISPORT ULTRA SYSTEM - SIDE VIEW

HORNER FLOORING COMPANY
DOLLAR BAY, MI
11-01-09

SLAB DEPRESSION			
FLOORING	5/16" (8mm)	7/16" (11mm)	11/16" (17mm)
7/16" (11mm)	1-13/16" (46mm)	1-15/16" (49mm)	2-3/16" (56mm)
3/4" (19mm)	2-1/8" (54mm)	2-1/4" (57mm)	2-1/2" (64mm)

5/16", 7/16", OR 11/16" THICK x 9-5/8" x 19.17"
MULTISPORT FLOORING UNITS



MULTISPORT ULTRA SYSTEM

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