



ULTRAPANEL ULP  
FLOATING RESILIENT FLOOR SYSTEM

**SPECIFICATIONS**

Contact CALIBER SPORT SYSTEMS INC. at [www.calibersport.com](http://www.calibersport.com) or (855)-718-9787 for specific project conditions or modifications of this specification.

## **PART 1 – GENERAL**

### **1.01 DESCRIPTION**

- A. Related Sections: Cast-in-Place Concrete
1. The general contractor shall provide a level slab, steel troweled to a tolerance of 1/8" (3mm) in a 10'0" (3m) radius and subject to the approval of the wood floor contractor. High spots shall be ground down and low spots shall be filled with an approved leveling compound by the general contractor to the tolerance specified above.
  2. MFMA does not acknowledge the use of FF/FL numbers to measure levelness/flatness tolerances in gymnasium concrete slabs.
  3. Concrete shall not use river gravel or pea gravel and have an average of 3500 psi. compressive strength after 28 days. Concrete must be cured for 60 days before installation can begin.
  4. The concrete slab shall be depressed: 2" (50mm) for 25/32" (20mm) flooring.
- B. Related Sections: Membrane Waterproofing
1. Concrete slabs on or below grade shall be adequately waterproofed beneath the slab and at the perimeter walls and on earth side of below grade walls by general contractor using suitable type membrane.
- C. Related Sections: Thresholds
- D. Related Sections: Game Standard Inserts

### **1.02 SUBMITTALS**

- A. Manufacturers product data: Submit **Ultrapanel ULP** specification sheets.
- B. Samples: Submit one (1) sample of **Ultrapanel ULP**, if requested by the architect.
- C. Maintenance literature: Submit one (1) copy of manufacturer's maintenance instructions.

### **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 the 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 subfloor shall be determined dry by industry standard testing procedures, free of foreign materials and turned over to the Flooring Contractor broom clean. Moderate room temperature of 65 degrees (18 C) or more shall be maintained a week preceding and throughout the duration of the work. Humidity conditions within the building shall approximate the humidity conditions that will prevail when the building is occupied.
- C. Permanent heat, light and ventilation shall be installed and operating during and after installation, maintaining a range of temperature and humidity compatible with the expected low and high moisture content of the flooring. The wood moisture content range is determined by the flooring contractor based on the facility's mechanical controls and geographical location.
- D. Flooring must be stored in a dry, well-ventilated area, not in contact with masonry, to acclimate to building conditions and shall be installed at moisture content compatible with the normally expected environmental range of temperature and relative humidity achieved while the facility is occupied.
- E. Industry standards recommend maintaining indoor relative humidity between 35 percent and 50 percent, and air temperatures between 55 degrees and 75 degrees year-round. By limiting wide swings in atmospheric conditions inside the facility, the expansion and contraction of the flooring system will be limited as the flooring is manufactured at a moisture content most compatible with this range. A 15 percent fluctuation in indoor relative humidity will not adversely affect the maple. Excessive shrinkage and/or expansion may occur with indoor

relative humidity variations that exceed 15 percent. The geographical region and HVAC determine the typical range of temperature and humidity for each facility. In buildings where air conditioning is not available, the use of circulating or venting fans will help facilitate excessive shrinkage or expansion.

- F. General Contractor shall lock the floor area after the floor is finished to allow proper cure time. If general contractor or owner requires use of the gym after proper cure time, they shall protect the floor by covering with non-marring craft paper or red rosin paper with taped joints until acceptance by the owner of the complete gymnasium floor.

#### **1.04 WARRANTY**

- A. Caliber Sport Systems Inc. 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 Caliber Sport Systems Inc. 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 Northern Hard Maple standard strip flooring, 25/32" x 2-1/4" (20mm x 57mm) or 1-1/2" (38mm), TGEM
  2. Grades available are CLA 1st, 2nd&Btr. 3rd&Btr. and 3rd grade
- B. Subfloor
1. Vapor barrier shall be 6-mil polyethylene.
  2. Resilient underlayment foam shall be 1/4" (6mm) multi-cellular, polyethylene foam pad with 1.7-2.3 PCF density as supplied by Caliber Sport Systems Inc., 1/2" (12mm) foam pad or 7/16" open cell foam (optional).
  3. Panels shall be 15/32" x 4' x 8' (12mm x 1.2M x 2.4m) HPS, exposure 1, rated sheathing, minimum APA span rating of 32/16
- C. Fasteners
1. Subfloor fasteners shall be 1" (25mm) coated staples.
  2. Flooring fasteners shall be 1-1/2" (38mm) cleats, or 15-gauge coated staples.
- D. Wall Base
1. Wall base shall be 3" x 4" (76mm x 102mm) vented cove base with pre-molded outside corners (specify black or brown), as supplied by Caliber Sport Systems Inc.

### **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. Cover concrete slab with polyethylene lapping edges 6" (150mm) and seal with adhesive or 2" (50mm) duct tape.
- B. Place foam over polyethylene and seal joints with duct tape.
- C. Place the first layer of sheathing diagonal or perpendicular to the intended direction of the finish flooring. Allow a minimum 1/4" (6mm) between panels at sides and edges, and a 2" (50mm) expansion void at walls and vertical obstructions.
- D. Install solid blocking at doorways, bleacher stack areas or under portable goals as needed.
- E. Fasten the second layer of sheathing at a 45-degree angle or at right angles to the first layer. The sheathing sheets must be nailed or stapled together with 1" (25mm) fasteners starting from the center of the sheet working outward. No joint in the second layer of sheathing shall coincide with a joint in the first layer. Allow 1/4" (6mm) between panels at sides and edges, and a 2" (50mm) expansion void at walls and vertical obstructions on both layers of sheathing.
- F. Machine nail strip flooring approximately 10"-12" (300mm) o.c. 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. Allow 2" (50mm) expansion voids at perimeter and all vertical obstructions.

### **3.03 FLOOR SANDING**

- A. Use coarse, medium and fine grade sandpaper.
- B. After sanding, buff the entire floor using a 100-grit screen or equal grit sandpaper, with a heavy-duty buffing machine.
- C. Vacuum or tack floor before the first coat of finish.
- D. Floor shall present a smooth surface without drum stop marks, gouges, streaks or shiners.

### **3.04 FINISHING**

- A. Inspect the 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 pre-molded outside corners. Install aluminum thresholds as required, anchoring firmly in concrete floor beyond limits of wood flooring.

### **3.06 CLEAN UP**

- A. Clean up all unused materials and debris and remove from premises, properly dispose of all waste materials.

### **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 are followed. Failure to do so may void warranty.

IT IS THE POLICY OF CALIBER SPORT SYSTEMS INC. 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.

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