

## **SECTION 09/GUIDE SPECIFICATIONS FOR ROBBINS SPORTWOODPLUS ULTRA FLOOR SYSTEMS**

### **Part 1 - GENERAL**

#### **1.01 DESCRIPTION**

- A. Related work specified under other sections. (A cross reference should be incorporated in these sections.)
1. Concrete Slab Depression - Depression will vary depending on components selected. Add thickness of Sportwood + 1" L.D. Subfloor + 3/4" Bio-Cushion Isolator Pads. (Example: 7/16" Sportwood + 1" L.D. Subfloor + 3/4" pads.)
  2. Concrete Tolerance - 1/8" in radius of 10' Surface - steel troweled.
  3. Concrete and Concrete Finishing.....Section 03300
    - a. NOTE: No sealers or hardeners are to be used.
  4. Membrane Waterproofing and Dampproofing.....Section 07100
    - a. Concrete subfloors on or below grade shall be adequately waterproofed beneath and at the perimeter of the slab and on the earth side of below grade walls.
  5. Thresholds - Metal.....Section 08700
  6. Game Standard inserts.....Section 11500

#### **1.02 QUALITY ASSURANCE**

- A. Floor System Manufacturer Qualifications
1. Manufacturer shall be an established firm experienced in the field and have been in business for a minimum of ten years; Robbins, Inc. or an approved equal.
- B. Floor Contractor/Installer Qualifications
1. Flooring contractor shall be a firm experienced in the flooring field approved by the manufacturer.
  2. Submit a list of at least three (3) completed projects of similar magnitude and complexity.
- C. Submit three (3) copies of WSFI Recommendations for the correct preparation, finishing and testing of concrete subfloor surfaces to receive wood flooring.
- D. Performance Qualifications of Flooring System
1. Floor system shall have been tested and passed the requirements of DIN 18032, Part II as set out below.
    - a. Shock absorption shall be 71% minimum.
    - b. "Uniformity" of shock absorption of plus or minimum 5 percentage points shall be maintained throughout entire surface at each test point using DIN test 18032, Part II.
    - c. Ball return shall be at least 93.3% when tested against concrete and have same uniformity as Section D, 1., b.
    - d. Deflection:
      - (1) Point of Impact: 3.3 mm minimum and have same uniformity as Section D, 1., b.
      - (2) 20" from Point of Impact: 15% of Point of Impact Maximum and have same uniformity as Section D, 1., b.
    - e. Friction: Range 0.5 - 0.7 per DIN Test Method.
    - f. Rolling Load: 337.6 lbs. Weight Capacity without damage.

**NOTE:** It is the intent of the (name school), to procure a flooring system which meets or exceeds all of the criteria set forth in the Internationally accepted DIN Standards (DIN 18032, Part II). The owner may at their discretion and expense, have the finished flooring tested by an

independent certified DIN testing agency (i.e., Otto Graf Institut, Stuttgart, Germany). Should the finished flooring fail to pass these stringent standards, the owner may require the flooring to be removed and replaced by a floor which will pass these standards. Removal and replacement at no expense to the owner.

### **1.03 SUBMITTALS**

#### **A. Manufacturers' Product Data**

1. Submit three (3) Robbins Sportwoodplus Ultra Specifications.

#### **B. Samples**

1. Submit one (1) sample of Robbins Sportwoodplus Ultra Systems.

#### **C. Maintenance Literature**

1. Submit three (3) copies of "WSFI Care and Preservation of Your Wood Floors."

#### **D. Certification**

1. Suppliers shall submit certificates attesting that the materials furnished will meet specifications for grade, quality, dryness and treatment if required.

### **1.04 DELIVERY, STORAGE AND HANDLING**

#### **A. Delivery of Materials**

1. Materials shall not be delivered, stored or installed until all masonry, painting, plastering, tilework, marble and terrazzo work are completed. All overhead mechanical work, lighting, backstops, scoreboards are installed. Room temperature of at least 55 to 80 degrees and relative humidity of 35 to 50% are to be maintained. Ideal installation/storage conditions are the same as those which will prevail when the building is occupied.

### **1.05 JOB CONDITIONS**

A. Do not install floor system until concrete has been cured 60 days and the requirements in Paragraph 1.04 A-1 are obtained. Concrete will be free of sealers, hardeners and curing agents.

B. Permanent heat, light and ventilation shall be installed and operating during and after installation. Maintaining a temperature range of 55 to 80 degrees and a relative humidity range of 35 to 50%.

C. After floors are finished, area to be kept locked by general contractor to allow curing time for the finish. If after required curing time general contractor or owner required use of gym, he shall protect the floor by covering with nonfibred kraft paper or red rosin paper with taped joints, until acceptance by owner of complete gymnasium floor.

### **1.06 GUARANTEE**

A. Guarantee shall not cover damage caused in whole or in part by casualty, ordinary wear and tear, abuse, use for which materials is not designed, faulty construction of the building, settlement of the building walls, failure of the other contractors to adhere to specifications, separation of the concrete slab and excessive dryness or excessive moisture from humidity, spillage, migration through the slab or wall, or any other source.

B. Robbins, Inc. hereby warrants the **SPORTWOODPLUS ULTRA** material to be free from manufacturing defects for a period of 1 year. 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 Robbins. In the event of breach of

any warranty, the liability of Robbins shall be limited to repairing or replacing **SPORTWOODPLUS ULTRA** material and system components supplied by Robbins and proven to be defective in manufacture, and shall not include any other damages, either direct or consequential.

## **Part 2 - PRODUCTS**

### **2.01 MATERIALS**

#### **A. Membrane**

1. 6 mil polyethylene

#### **B. Robbins **SPORTWOODPLUS ULTRA** System**

1. Robbins Bio-Cushion Isolator pads.
2. L.D. Subfloor material - 1/2" Rated Sheathing Fir or Pine Plywood
3. Nail - 1" coated staples or equivalent.
4. Adhesive:
  - a. Construction adhesives - PL400 or equivalent.
  - b. Sportwood Elastomeric Adhesive.
5. Flooring 7/16" x 7/8" x 9" second & better square edge, edge grain, kiln dry, northern hard maple as manufactured by Robbins and graded in accordance with MFMA standards.
  - a. Options (delete or modify above) 5/16" or 11/16" thickness may be substituted (1" or 1-1/8" width fillets mill option). Furthermore, First Grade or Third Grade may be substituted for the Second and Better Grade specified above. Also Third Grade can be incorporated under bleachers in their stacked position.

#### **C. Perimeter Base--Robbins Maple Base Molding**

#### **D. Finishing Materials**

1. Robbins' Miracle oil modified polyurethane sealer and finish.
2. Gameline paint shall be recommended by the finishing materials manufacturer, compatible with the finish.

## **Part 3 - EXECUTION**

### **3.01 INSPECTION**

- A. Inspect concrete subfloors for proper tolerance and dryness, and report any discrepancies to the general contractor in writing.
- B. All work required to put the concrete subfloors in acceptable condition shall be the responsibility of the general contractor.
- C. Subfloors should be broom cleaned by general contractor.

### **3.02 INSTALLATION**

#### **A. Robbins **SPORTWOODPLUS ULTRA** System**

1. Install polyethelene with joints lapped a minimum of 6".
2. Install Robbins Bio-Cushion Isolator pads to bottom of first layer of subfloor - 12" O.C.
3. Install first layer of subfloor perpendicular to direction of Sportwood. Apply ribbons of PL400 adhesive in a box-X pattern. Over this, secure second layer of underlayment on a diagonal (approximately 45 degrees) to first layer with 1" staples placed 12" O.C. in both directions. All subfloor joints shall be staggered and spaced 1/8"-1/4".

4. Trowel on Robbins Sportwood adhesive at approximately 50 square feet per gallon.
5. Install Robbins Sportwood 5/16", 7/16" or 11/16" maple flooring in Robbins elastomeric adhesive, laying in continuous strip pattern end to end.
6. Robbins Sportwood shall be laid with fine hairline joints and not driven tightly except for low humidity regions. Provide a 2" expansion void at minimum.

**B. Sanding**

1. Sand flooring with drum sander, edger, buffer, and hand scrapper.
  - a. Use coarse, medium and fine grade sandpaper.
  - b. After sanding with drum sander, buff entire floor using 100 grit screenback or equal grit sandpaper, with a heavy-duty buffing machine.
  - c. Vacuum or tack floor before first coat of finish.
  - d. Floor shall present a smooth surface without drum stop marks, gouges, streaks or shiners.

**C. Finishing - Gymnasiums (delete if not applicable)**

1. Apply 1 coat of Robbins Miracle Sealer and 2 coats of Robbins Miracle Finish.
  - a. Optional 4 coat system: Add 1 additional coat of Robbins Miracle Sealer to regular 3 coat system. (C-1)
2. Screenback or steel wool and vacuum or tack between each coat after it dries.

Game Lines: Apply game line accurately after the seal coat, 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 architect.

**D. Finishing - Stages and Auditoriums (delete if not applicable)**

1. Apply 2 or more coats of penetrating sealer, buffed in accordance with manufacturer's instructions in order to provide a low gloss, flat finish. We recommend that stages be finished in walnut or darker colors for theatrical performance.

**E. Perimeter Molding**

1. Install Robbins maple base, nailing maple directly to floor, using finishing nails spaced 12" on center. Miter all joints at 45 degree angle. Fill nail holes with plastic wood prior to sanding and finishing.

- F. Clean up all unused materials and debris and remove same from the premises.**