

Specification Note:

The following specifications call out the material and default installation requirements necessary for the floor as recommended by Robbins Sports Surfaces. In some cases, local codes, physical requirements or installer recommendation may override these methods and procedures. It is Robbins recommendation to review the specification with a Regional Sales Manager or the local Authorized Dealer before incorporating the specification into the project design. Some options impact installed cost and verification of the design and budget is advised.

For the name of the local Robbins representative or dealer, contact Robbins at 1-800-543-1913 or on the web at www.robbsfloor.com.

SECTION 09 / GUIDE SPECIFICATIONS FOR
ROBBINS® SPORTWOOD® DIRECT FLOOR SYSTEM

Part 1-GENERAL**1.01 DESCRIPTION**

- A. Related work specified under other sections. (A cross-reference should be incorporated in these sections.)
1. Concrete and Concrete FinishingSection 03300
 - a. Concrete Slab Depression: 7/16" (11mm) for 7/16"(11mm) Flooring.
 - 1) Options for 5/16" flooring(delete or modify above):**
 - a) 5/16" (8mm) for 5/16" (8mm) Flooring
 - b) If applying to an existing synthetic surface, add the thickness of the existing surface.
 - b. Surface Finish: steel troweled and finished smooth.
 - c. Concrete Tolerance: 1/8" (3mm) in radius of 10' (3m).
 - d. Concrete Aditives: NOTE: No sealers, hardeners or additives are to be used.
 - e. Floor Flatness and Floor Levelness (FF and FL) numbers are not recognized.
 2. Membrane Waterproofing and DampproofingSection 07100
 - a. Concrete subfloors on or below grade shall be adequately waterproofed beneath the slab and at the perimeter walls and on the earth side of below grade walls by general contractor using suitable type membrane.
 - b. Sand-Poly-Sand slab construction is not an acceptable construction.
 3. ThresholdsSection 08700
 4. Game Standard Inserts.....Section 11500

1.02 QUALITY ASSURANCE

- A. Floor System Manufacturer Qualifications
1. Manufacturer shall be an established firm experienced in field and have been in business or a minimum of ten (10) years; Robbins, Inc. or an approved equal.
 2. Manufacturer will be a member in good standing of the Maple Flooring Manufacturers Association (MFMA).
- B. Floor Contractor/Installer Qualifications and Certifications
1. Flooring contractor shall be a firm experienced in flooring field and approved by manufacturer.
 2. Submit a list of at least three completed projects of similar magnitude and complexity.

1.03 SUBMITTALS

- B. Manufacturer's Product Data
1. Submit three (3) Robbins **Sportwood Direct** Floor System specification sheets.
 2. Suppliers shall submit certificates attesting that materials furnished will meet specifications for grade, quality, dryness and treatment, if required.
 3. Submit certification that floor system to be provided has been tested by an independent agency verifying the flooring system meets or exceeds all six of the minimum standards as established by DIN 18032, part 2₂₀₀₁
- C. Concrete Guidelines
1. Submit three (3) copies of MFMA Recommendations for correct preparation, finishing and testing of concrete subfloor surfaces to receive wood flooring.

2. Submit Robbins Technical Services “Concrete Guide Specification” for further information regarding conditions and requirements of concrete prior to installation.
- D. Samples
1. Submit one (1) sample of **Sportwood Direct**, if requested by architect. Sample to be made by the manufacturer and so indicated.
- E. Maintenance Literature
1. Submit copy of Maintenance Instructions.

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 is complete, and all overhead mechanical work, lighting, backstops, scoreboards are installed. **Room temperature of 55-80 degrees Fahrenheit (13 to 27 degrees Celsius) and relative humidity of 35-50 % are to be maintained.** In- Slab Relative Humidity shall be 75% or less. Ideal installation/storage conditions are the same as those that will prevail when building is occupied
 2. Materials shall not be stored at the installation location if the In-Slab relative humidity level for the concrete slab is above 75% using ASTM F 2170 In-Slab Relative Humidity test.

1.05 JOB CONDITIONS-SEQUENCY

- A. Do not install floor system until concrete has been cured 60 days and the requirements in paragraph 1.04 A are obtained.
- B. General Contractor is responsible to ensure slab is clean and free of all dirt and debris prior to floor installation beginning.
- C. Permanent heat, light and ventilation shall be installed and operating during and after installation. **Maintain a temperature range of 55 to 80 degrees Fahrenheit (13 to 27 degrees Celsius) and a relative humidity range of 35 to 50%.** Consult MFMA guidelines for further information.
- D. 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 requires use of gym, he shall protect the floor by covering with non-fibered kraft paper or red rosin paper with taped joints, until acceptance by owner (or owner’s agent) 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 material 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 **Sportwood Direct** 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 **Sportwood Direct** 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. **Options (delete or modify above):**
1. ConcretePrimer – For projects with high concrete moisture.
- B. Maple Flooring
1. 7/16” x .818” x 9” (11mm x 21mm x 229mm) MFMA-PQ Second & Better Square Edge, Edge Grain Kiln Dried Northern Hard Maple Flooring as manufactured by Robbins.
 - a. **Options (delete or modify above.)**
 - 1) Thickness
 - a) 5/16” (8mm) thickness (.818 width only)
 - 2) Fillet Width
 - a) 1” 1/8” (29mm) width fillets

- 3) Grade
 - a) Third & Better Grade
 - 4) Boston Square Pattern.
 - a) Boston Square panels can be laid out in increments of 9”(9”,18”,27”, etc.). Please specify size of squares.
- C. Fasteners
1. Flooring
 - a. Robbins Elastomeric Sportwood Adhesive (one-part urethane). No two-part adhesives are acceptable. Poly-vinyl acetate (PVA) or chlorinated solvent adhesives shall not be substituted.
 - b. Options (delete or modify above):**
 - 1) Adhesive for Floors with concrete primer – For projects with high concrete moisture.
- D. Finishing Materials
1. Robbins Miracle or approved equal oil-modified polyurethane sealer and finish.
 2. Gameline paint(s) shall be recommended by the finishing materials manufacturer, and must be compatible with the finish.
- E. Perimeter Base - Robbins 3” x 4” ventilating type. (Specify black or brown)

Part 3-EXECUTION

3.01 INSPECTION

- A. Inspect concrete slab for proper tolerance and dryness, and report any discrepancies to the general contractor and architect in writing. Slab will be level to within 1/8” (3mm) in a 10’ (3m). Moisture content of the concrete slab shall not exceed 75% using ASTM F 2170 In-Slab Relative Humidity test.
- B. All work required to put the concrete subfloors in acceptable condition shall be the responsibility of the general contractor.
- C. Subfloor shall be broom cleaned by general contractor.
- D. Installer shall document all working conditions provided in General Specifications prior to commencement of installation.

3.02 INSTALLATION

- A. Robbins Sportwood Direct System
- 1. Options (delete or modify above):**
 - a. ConcretePrimer – Coat floor according to manufacturers instructions. For projects with high concrete moisture.
 2. Maple Flooring
 - a. Trowel on Robbins Sportwood adhesive. Approximately 50 square feet (4.6 square meters) per gallon.
 - b. Install Robbins Sportwood maple flooring in Robbins Sportwood adhesive, laying in specified pattern end to end.
 - c. Robbins Sportwood shall be laid with fine hairline joints and not driven tightly except for low humidity regions. Provide 2” (50mm) expansion void at perimeter and at all vertical obstructions.

3.03 FINISHING

- A. Sanding
1. Sand per manufacturer’s recommendations.
 2. After sanding, buff entire floor using 100 grit screen or equal grit sandpaper, with a heavy-duty buffing machine.
 3. Inspect entire area of floor to insure the floor presents a smooth surface without drum stop marks, gouges, streaks or shiners.
 4. Vacuum and/or tack floor before first coat of seal.
 5. Floor should be clean and completely free of dirt and sanding dust.
- B. Finishing
1. Gymnasiums (delete if not applicable)
 - a. Apply specified combination of seal, gameline paint, and finish in accordance with manufacturer’s instructions.
 - b. Buff and vacuum and/or tack between each coat after it dries.

- c. Apply game lines accurately after the buffing and vacuuming the coated surfaces. Layout 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.
2. Stages and Auditoriums (delete if not applicable)
 - a. Apply 2 or more coats of penetrating sealer, buffed in accordance with manufacturer's instructions in order to provide a low gloss, flat finish. Robbins recommends that stages be finished in walnut or darker colors for theatrical performance.

3.04 WALL BASE INSTALLATION

1. Install Robbins vent cove base anchored to walls with base cement or screws and anchors. Use pre-molded outside corners and neatly mitered inside corner.

3.05 CLEANING

1. Clean up all unused materials and debris and remove it from the premises.

**Construction options are available to modify this system to the project design and budget.
Contact your Regional Sales Manager or the local Authorized Dealer for more information.**