

I. FSC – Forest Stewardship Council

1.03 QUALITY ASSURANCE

- A. Floor System Manufacturer Qualifications
 - 1. Basis of design shall be **Eclipse-SB** floor system as provided by Robbins Sports Surfaces, www.robbsfloor.com, (800-543-1913).
 - 2. 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.
 - 3. Manufacturer will be a member in good standing of the Maple Flooring Manufacturers Association (MFMA).
- B. Floor Contractor/Installer Qualifications and Certifications
 - 1. The flooring contractor shall be a Robbins Accredited Installation with MFMA Accredited Installer(s) on-site for the duration of the wood floor installation; or, a contractor approved by Robbins Sports Surfaces.
 - 2. Flooring contractor shall submit a list of at least three completed projects of similar magnitude and complexity completed under current corporate identity.
- C. Floor System Design
 - 1. System design provides heavy load blocking throughout floor area.
 - 2. The resilient padding provides consistent gradient resiliency. Assures uniform compression deflection transition from light loading to aggressive loading.
- D. Floor System Performance
 - 1. **Eclipse** meets or exceeds criteria of the following performance criteria:
 - a. MFMA PUR
 - b. DIN 18032 Part2 2001
 - c. DIN 18032 Part2 1991
 - d. ASTM F2772 Sport Floor Standards
 - e. FIBA International Standards
 - f. EN 14904 Standards
 - 2. Independent testing report showing the system passing all criteria shall be provided as part of the bid qualification process and submittal process.

1.04 SUBMITTALS

- A. Specification and Drawings
 - 1. Submit Robbins **Eclipse-SB** specification sheet.
 - 2. Submit Robbins **Eclipse-SB** drawings as required.
- B. Sample
 - 1. Submit one (1) sample of **Eclipse-SB**, if requested by architect
- C. Concrete Guidelines
 - 1. Submit 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. Maintenance Guidelines
 - 1. Submit copy of Maintenance Instructions.

1.05 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 85% or less using ASTM F 2170 In-Slab Relative Humidity test. 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 85% using ASTM F 2170 In-Slab Relative Humidity test.

1.06 JOB CONDITIONS-SEQUENCY

- A. Do not install floor system until concrete has been cured 60 days and the requirements in paragraph 1.05 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.

1.07 WARRANTY

- 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 **Eclipse-SB** 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 **Eclipse-SB** 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 MATERIAL

- A. Vapor Barrier
 1. 6-mil polyethylene.
- B. Subfloor
 1. Robbins Eclipse subfloor panels with factory attached resilient pads.
- C. Maple Flooring Manufacturers Association(MFMA) Wood Flooring. Flooring shall be MFMA grade marked as manufactured by Robbins.
 1. Specie: Northern Hard Maple
 2. Seasoning: Kiln Dried
 3. Matching: Tongue and groove on side-match and end-match.
 4. Thickness: 25/32"
 - a. Options (delete or modify above):
 - 1) 33/32"
 5. Width: 2 1/4"
 - a. Options (delete or modify above):
 - 1) 1 1/2"
 - 2) 3 1/4"
 6. Grade: 2nd and Better
 - a. Options (delete or modify above):
 - a) 1st Grade
 - b) 3rd and Better

- c) 3rd Grade.
 - 7. Factory Finish: Unfinished
 - a. Options (delete or modify above):
 - 1) Factory Sanded.
 - 2) Factory Sealed.
 - 3) Factory Finished.
 - 8. Treatment: Un-Treated
 - a. Options (delete or modify above):
 - 1) Dri-Vac Treated
 - 9. Certified Wood: Non FSC
 - a. Options (delete or modify above):
 - 1) FSC
- D. Fasteners
 - 1. Flooring - 2" (51mm) barbed cleats or staples.
 - 2. Subfloor - 1" (25mm) coated staple of equivalent.
 - 3. Sleeper anchors – 2 ½" Powers SPIKE® anchors and sleeves
- E. Finishing materials
 - 1. MFMA approved oil-modified Sealer
 - 2. MFMA approved oil-modified Finish
- F. Gamelines
 - 1. Gameline paint(s) shall be recommended by the finishing materials manufacturer, and must be compatible with the finish.
- G. Perimeter
 - 1. 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 85% 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. Vapor Barrier
 - 1. Install polyethylene with joints lapped a minimum of 6" (150mm) and turned up 4" (100mm) at the walls.
- B. SUBFLOOR
 - 1. Position Eclipse-SB subfloor panels per manufacturer's instructions, integrating top layer with adjacent panels. Allow for a ¼" (6mm) gap at subfloor panel end joints. Provide 1-½" to 2" (40 to 50mm) expansion void at the perimeter and all vertical obstructions.
 - 2. Install solid blocking at doorways, under bleachers in the stacked position, and below portable goals.
 - 3. Install Bleacher Blocking per manufacturer's recommendations.
 - 4. Properly anchor subfloor panels at each factory designated location.
- C. FLOORING
 - 1. Machine nail maple flooring along each edge of the Eclipse-SB panel's upper layer, driving up all end joints and proper spacing provided for humidity conditions in specific regions. Consult your local Robbins "Certified" contractor. Provide 2" (50mm) expansion voids at the 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. Game lines shall be painted between seal coats and finish coats. 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

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

3.05 Cleaning

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

END OF SECTION 096466

Construction options are available to modify this system to the project design and budget. Contact your Regional Sales Manager(1-800-543-1913) or the local Authorized Dealer for more information.