

**SECTION 09642 – WOOD GYMNASIUM FLOORING****PART 1 - GENERAL****1.1 DESCRIPTION****A. Related work specified under other sections.****1. CONCRETE SUBFLOORS-SECTION 03\_ \_ \_****a. Slab depression is:**

- 2-1/8" (54mm) for 25/32" (20mm) flooring
- 2-3/8" (60mm) for 33/32" (26mm) flooring

**b. The general contractor shall furnish and install the concrete subfloor depressing the slab sufficiently to accommodate the floor system. The slab shall be steel troweled and finished smooth to a tolerance of 1/8" in any 10' (3mm in any 3 meter) radius by the general contractor. High spots shall be ground level, and low spots filled in with approved leveling compound by the general contractor to the full approval of the installer (Flooring Contractor).****2. MEMBRANE WATERPROOFING - SECTION 07\_ \_ \_****a. Concrete subfloors 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.****3. THRESHOLDS - SECTION 08\_ \_ \_****4. GAME STANDARD INSERTS - SECTION 11\_ \_ \_****1.2 REFERENCES****A. MFMA - Maple Flooring Manufacturers Association****B. DIN - Performance Standard DIN 18032, Part 2.****1.3 QUALITY ASSURANCE****A. Manufacturer**

1. Manufacturer of resilient flooring shall be a firm specializing in manufacturing products specified in this section.
2. Manufacturer of flooring and subfloor components must be ISO 9001:2008 Certified to assure quality control of materials provided.
3. Manufacturer of gymnasium floor system and hardwood flooring surface shall be verified as a "Zero Waste" company confirmed through SWCA third-party auditing.
4. Basis of design shall be "RezillFlex" sports floor system as provided by **Connor Sports, [www.connorfloor.com](http://www.connorfloor.com)** and installed by **RFS SPORTS 281-234-6800 [info@teamrfs.com](mailto:info@teamrfs.com)**
5. 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 (Flooring Contractor)**

1. The complete installation of the flooring system, as described in the scope of these specifications, shall be carried out by the MFMA Mill Accredited Installation Company, and the work shall be performed in accordance with most recent installation instructions of the manufacturer.
2. The MFMA Mill Accredited Installation Company shall be liable for all matters related to installation for a period of one year after the floor has been substantially installed and completed.

**C. Performance Testing**

1. Flooring system shall have been independently tested and meets or exceeds all Athletic Performance requirements according to the International Standard DIN 18032 Part 2.
2. Independent DIN testing laboratory shall have Scientific Body Membership in the International Association of Sports Surface Sciences (ISSS). Test equipment shall have been calibrated and certified through the ISSS.
3. DIN testing engineer shall be an ISO 17025 System member rated for each performed test conducted.
4. Flooring system shall have been independently tested and meets or exceeds all Athletic Performance requirements according to the Structural Testing and Engineering Measures (STEM).

**1.4 SUBMITTALS****A. Specification - Submit Connor RezillFlex specification sheets.****B. Sample - Submit one sample of specified system, if requested by architect.**

- C. Maintenance Literature** - Upon completion of floor installation, send to owner, attendants or individuals in charge and responsible for the upkeep of the building a CARE CARD. This card spells out care and maintenance instructions including temperature and humidity ranges for areas where flooring is installed.

### **1.5 WORKING CONDITIONS**

- A.** The wood flooring specified herein shall not be installed until all masonry, painting, plaster, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in the wood floor areas. The building shall be enclosed and weathertite.
- B.** The concrete subfloor shall be determined dry by industry standard testing procedures, free of foreign materials and turned over to the installer (Flooring Contractor) broom clean. Moderate room temperature of 65 degrees (18 degrees Celsius) 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/or 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.** General Contractor shall lock floor area after floor is finished to allow proper curing time. If general contractor or owner requires use of gym after proper curing time, he shall protect the floor by covering with non-marring Kraft paper or red rosin paper with taped joints until acceptance by owner of complete gymnasium floor.
- F.** Working conditions as described above shall be followed. Variations and substitutions shall be submitted for approval to the architect who shall advise Connor of the same.

### **1.6 HUMIDITY CONTROL**

- A.** Since all wood flooring will expand and contract as relative humidity varies, it is important to minimize extremes between low and high. Hardwood flooring is manufactured at moisture content most compatible with a 35%-50% relative humidity range. Geographical regions and available mechanicals determine the typical range of temperature and humidity for each facility. Maintaining a 15% fluctuation between highest and lowest average indoor relative humidity provides limited shrinkage and growth. Facility managers should make use of available HVAC systems to prevent excessive tightening and shrinkage of flooring.

### **1.7 WARRANTY**

- A.** Connor warrants that the materials it has supplied will be free from manufacturing defects for a period of one year. The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied in operation of law or otherwise, including, but not limited to, any implied warranties of merchantability or fitness. This warranty is expressly limited to the flooring materials (goods) supplied by Connor. This warranty does not cover floor damage caused (wholly or in part) by fire, winds, floods, moisture, other unfavorable atmospheric conditions or chemical action, nor does it apply to damage caused by ordinary wear, misuse, abuse, negligent or intentional misconduct, aging, faulty building construction, concrete slab separation, faulty or unsuitable subsurface or site preparation, settlement of the building walls or faulty or unprofessional installation of Connor flooring systems.
- B.** Connor shall not be liable for incidental or consequential losses, damages or expenses directly or indirectly arising from the sale, handling or use of the materials (goods) or from any other cause relating thereto, and their liability hereunder in any case is expressly limited to the replacement of materials (goods) not complying with this agreement, or at their elections, to the repayment of, or crediting buyer with, an amount equal to the purchase price of such materials (goods), whether such claims are for breach of warranty or negligence. Any claim shall be deemed waived by buyer unless submitted to Connor in writing within 30 days from the date buyer discovered, or should have discovered, any claimed breach.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- A. Vapor Barrier** - 6-mil (0.2mm) polyethylene.
- B. Subfloor** - Factory assembled panels as supplied by Connor Sports, constructed of 15/32" (12mm) underlayment grade plywood with 1/2" X 2" X 2" (12mm x 51mm x 51mm) R4 Rezill DIN Pads attached.
- C. Flooring** (Connor Laytite Maple)
  - 1. 25/32" X 2-1/4" (20mm x 57mm), Second & Better Grade, Northern Hard Maple Flooring, TGEM, MFMA Grade marked and stamped as manufactured by Connor Sports, Amasa, MI.
  - 2. Optional sizes and grades (specify above or delete) -
    - a. Sizes – 25/32" X 1-1/2" (20mm x 38mm), 33/32" X 1-1/2" (26mm x 38mm), 33/32" X 2-1/4" (26mm x 57mm)
    - b. Grades – First Grade, Third Grade
  - 3. Option (specify or delete) - Manufactured flooring profile shall include 1/64" side edge crush bead.
  - 4. SMARTWOOD<sup>cm</sup> (specify or delete) - Hard maple flooring shall be certified as harvested from managed forest in compliance with the SmartWood<sup>cm</sup> program of the Rainforest Alliance.
- D. Fasteners**
  - 1. Subfloor fasteners - 1" (25mm) screws or coated staples.
  - 2. Flooring Fasteners - 2" (51mm) barbed cleats or coated staples.
- E. Finish Materials** - Connor oil modified polyurethane seal and finish or equal.
- F. Game Lines** - Game line paint shall be compatible with finish.
- G. Wall Base** - 3" X 4" (76mm x 102mm), heavy duty, molded, vented cove base with pre-molded outside corners.
- H. Protective Floor Cover** – (specify or delete)
  - 1. Court Cover Tiles – Tiles selected from manufacturer's standard dimensions and colors.
  - 2. (Option) – Court Cover Light – Rolls selected from manufacturer's standard weights and colors.

## **PART 3 - EXECUTION**

### **3.1 EXECUTION**

- A.** Inspect concrete slab for proper tolerance and dryness. Report any discrepancies to general contractor and architect in writing.
- B.** Concrete slab shall be broom cleaned by general contractor.
- C.** MFMA Mill Accredited Installation Company shall document all working conditions provided in General Specifications prior to commencement of installation.

### **3.2 INSTALLATION**

- A. Subfloor**
  - 1. Cover concrete with poly, sealing and lapping joints a minimum of 6" (152mm).
  - 2. Install RezillFlex subfloor panels at right angle to finish flooring, starting along an end wall, working left to right. Provide 1-1/2" (38mm) expansion voids at perimeter and at all vertical obstructions. Allow 1/4" (6mm) space between ends of abutted panels. Stagger subfloor panels when beginning each row to create a brick pattern throughout the subfloor. Apply screws or staples 12" (305mm) on center to secure adjacent panels on all ends and sides while maintaining 4" (102mm) spacing between sides of upper subfloor panels. Install solid blocking at doorways, under bleachers in the stacked position, and below portable goals.
- B. Maple Flooring**
  - 1. Install maple flooring by power nailing or stapling approximately 12" (305mm) on center with end joints properly driven up. **Note:** nail or staple through double subflooring only.
  - 2. If required, size joints between flooring strips to allow for intermediate expansion in accordance with local humidity conditions.
  - 3. Provide 1-1/2" (38mm) expansion voids at perimeter and at all vertical obstructions.

### **3.3 FINISHING**

**A. Maple Flooring**

1. Machine sand with coarse, medium, and fine paper to a smooth, even and uniform surface.
2. Remove sanding dust from entire surface by tack or vacuum.
3. Inspect entire area of floor to insure that surface is acceptable for finishing, clean and completely free from sanding dust.
4. Apply two (2) coats of approved seal and two (2) coats of approved finish per manufacturer's instructions.
5. Buff and clean floor between coats.
6. Games Lines: Apply game lines as indicated on drawings, between seal and first coat of finish.

**3.4 BASE INSTALLATION**

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

**3.5 CLEANING**

- A.** Remove excess and waste materials from the area of work.

**END OF SECTION 09642**

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