

## **PART 1 - GENERAL**

### **1.01 SCOPE OF WORK**

1. The Work to be done under this Contract shall consist of the removal and disposal of existing gymnasium rubber sports flooring and base, concrete wire mesh topping, subfloor substrate preparation, and the supply and installation of new Bio-Cushion LP northern hard maple hardwood flooring complete with subfloor construction and resilience shock pad layer.

### **1.02 DELIVERY, STORAGE AND HANDLING**

1. Materials shall not be delivered, stored or installed until all demolition work has been completed to the satisfaction of the Contract Administrator. Room temperature of 55°- 80° Fahrenheit (13° to 27° Celsius) and relative humidity of 35-50 % are to be maintained. Store products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within the range recommended by the manufacturer Robbins, Inc.
2. Comply with Manufacturer's written instructions and recommendations for protection of hardwood flooring.

### **1.03 JOB CONDITIONS**

1. Contractor shall be responsible to ensure floor area is clean and free of all dirt and debris prior to floor installation proceeding.
2. Permanent heat, light and ventilation shall be operating during and after installation. Maintain a temperature range of 55° to 80° Fahrenheit (13° to 27° Celsius) and a relative humidity range of 35% to 50%. Consult MFMA Guidelines for further information.
3. After hardwood floors are finished, the gymnasium area shall be closed to the general public and staff by the Contractor to allow proper curing time for the finish as per Manufacturer's written instruction and recommendations. After curing procedure is complete, the Contractor can provide additional protection by covering with non-fibered kraft paper or red resin paper with taped joints, until acceptance by the City of Winnipeg.

### **1.04 GUARANTEE**

1. Robbins, Inc. warrants the Bio-Cushion LP 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 Bio-Cushion LP 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.
2. Guarantee shall not cover damage caused in whole or in part by casualty, abuse, use for which material is not designed, excessive dryness or excessive moisture from humidity spillage, migration through the slab or wall., or any other source.

## **PART 2 – PRODUCTS**

### **2.01 MATERIALS**

1. Finishing Materials: Robbins, Inc. Miracle oil modified polyurethane sealer and finish or an approved equal in accordance with B7.
2. Game lines and gymnasium lettering: paint shall be as recommended and specified by flooring finishing manufacturer and must be compatible with the finish.
3. Flooring: KD Northern Hard Maple Hardwood, Bio-Cushion LP, 25/32" (20mm) thick x 1 1/2" (38mm) face width, 2<sup>nd</sup> & better grade, unfinished TGEM, continuous strip XL Flooring as manufactured by Robbins, Inc. or an approved equal in accordance with B7, and graded in accordance with MFMA-FJ rules. The average board length shall be 6.5' to 7' long.
4. Fasteners: Flooring – 2" (51mm) 15 gauge cleats or staples  
Subfloor – 1" (25.4mm) length, 7/16" (11mm) crown, coated staples.  
Adhesive: PL400 or equivalent in accordance with B7.
5. Subfloor: 9/16" (14mm) thick dimpled Zero/G Shock Pad and two layers of 15/32" (12mm) thick, 4' x 8' (1.22m x 2.44m) Exposure 1, APA Rated Sheathing.
6. Vapour Barrier: 6 mil polyethylene if required.
7. Perimeter Base: Robbins, Inc. 3" x 4" vent cove base type. Colour to be selected by Contract Administrator.

## **PART 3 – EXECUTION**

### **3.01 INSPECTION**

1. Subfloor shall be broom cleaned by the Contractor and document all working conditions provided in Specifications prior to commencement of installation.

### **3.02 INSTALLATION**

1. Build up subfloor where required to uniform elevation.
2. Install Robbins, Inc. dimpled Zero/G Shock Pad as per Manufacturer's recommendations.
3. Install the lower subfloor perpendicular to the intended finish flooring direction. All joints shall be staggered 4' and spaced 1/4" (6mm) apart.
4. Install the upper subfloor diagonal to the lower subfloor panels staggering joints 4' and spacing 1/4" (6mm) apart. Secure these panels using adhesive (Box X pattern) and 1" (25mm) staples placed 6" (150mm) o.c. at panel perimeter and 12" (300mm) o.c. throughout interior.

5. Machine nail Maple finish flooring 10" to 12" (250mm to 300mm) o.c. with end joints properly driven up and proper spacing provided for humidity conditions. Provide 2" (50mm) expansion voids at the perimeter and all vertical obstructions.

### **3.03 FINISHING**

1. Sand as 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.
6. Gymnasium: Apply specified combination of seal, game line paint, and finish in accordance with Manufacturer's instructions and recommendations.
7. Buff and vacuum and/or tack between each coat after it dries.
8. Apply game lines accurately after the buffing and vacuuming of the coated surfaces. Confirm or verify colour of existing game lines on finished floor to current sport codes and regulations. Lines shall be straight with sharp edges in colors to match existing.

### **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 FINAL CLEANING**

1. Final clean up all unused materials and debris and remove it from the premises to the satisfaction of the Contract Administrator.