

Gym Floor Chesnee Middle School

PROJECT SUMMARY,

This project consists of install a new wooden sports floor over existing VCT flooring. As a part of this project the existing bleachers will have to be removed and reinstalled on top of the new Sports flooring. The existing basketball goals will have to be raised to accommodate the new flooring height. New 8” volleyball cover plates will need to be supplied and installed over existing volleyball inserts. The flooring system itself shall be a floating resilient system provides uniform performance and great ball response while virtually eliminating dead spots. The system combines our resilient pads(the pads must be 7/16 thick and natural rubber no crumb rubber allowed), two layers of plywood and MFMA maple flooring. Court edge brand ADA ramps are required at all doorways.

PART 1 – GENERAL

1.01 DESCRIPTION

A. Related Sections: Cast-in-Place Concrete.

1. The flooring contractor shall check tolerances of the existing slab. The slab should be level to a tolerance of 1/4" in a 10'0” radius..

1.02 QUALITY ASSURANCE

- A. Manufacturer shall be a MFMA Mill Member, an established firm experienced in the field and have been in business a minimum of ten (10) years;
- B. Manufacturer shall be solvent with no bankruptcy proceedings the previous seven (7) years.
- D. The flooring contractor must be an accredited installer by both the manufacturer and the MFMA

1.03 SUBMITTALS

- A. Manufacturers product data: Submit the specification sheets.
- B. Samples: Submit one (1) sample if requested.
- C. Maintenance literature: Submit one (1) copy of manufactures maintenance instructions.

1.04 WORKING CONDITIONS

- A. Flooring materials must be allowed to acclimate to building conditions on the job site in a dry, well-ventilated area, not in contact with masonry, and shall be installed at a moisture content not to exceed 8% except in areas of constant high humidity where the moisture content of the flooring shall not exceed 10%.
- B. The wood flooring shall not be installed until all masonry, plastering, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in wood floor area. The building must be reasonably dry; all openings must be closed in; permanent heating and air conditioning installed and operating.
- C. The concrete slab shall be dry, free of foreign materials, and turned over to the wood flooring contractor broom clean. Moderate room temperature of 65 degrees (18 C) or more shall be

maintained a week preceding and throughout the duration of the work. Humidity conditions within the building shall approximate humidity conditions which will prevail when the building is occupied. Care should be taken to maintain humidity within the range of 35% to 50%.

1.05 WARRANTY

- A. The manufacturer warrants the material it ships to be free from defects in materials and workmanship for a period of one year and the flooring installer warrants the installation of the flooring to be free of defects in materials and workmanship for a period of one year. The exclusive remedy under this warranty shall be replacement of defective material supplied by The manufacturer, or correction of defective installation by the flooring installer. All implied warranties of merchantability or fitness for intended use are limited to the period of this warranty. This warranty excludes consequential damages.
- B. This warranty does not cover damage caused by fire, winds, floods, chemicals, or other abuse, or by failure of other contractors to adhere to specifications, or neglect of reasonable precaution to provide adequate ventilation during hot and humid weather. This warranty also excludes damage due to excessive dryness or excessive moisture from humidity, spillage, migration through the slab or wall or any other source. This warranty also excludes damage to floors due to ordinary wear and tear, faulty construction of the building, (other than the flooring installation), separation of the concrete slab underlying the floor, settlement of the walls, or use of water on the floor.
- C. During the warranty period, the floor cannot be coated without the permission of the floor contractor.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Flooring
 - 1. Flooring shall be Northern Hard Maple standard strip flooring, 25/32" x 2-1/4" , TGEM, MFMA grade marked & stamped as manufactured.
 - 2. Grade 2nd&Btr..
 - 3. Expansion Ridge Technology (ERT) 1/64" milled expansion spacer
- B. Subfloor
 - 1. Vapor barrier shall be 6-mil polyethylene.
 - 2. Pads shall be approximately 7/16" thick by 2-1/4" wide by 3" (76mm) Natural rubber Only!.
 - 3. Panels shall be 15/32" x 4' x 8' (12mm x 1.2M x 2.4m) 4ply CD face exposure 1, rated plywood.
- C. Fasteners
 - 1. Subfloor fasteners shall be 1" (25mm) coated staples.
 - 2. Flooring fasteners shall be 2" (50mm) cleats, or 15-gauge coated staples.
- D. Wall Base
 - 1. Wall base shall be 3" x 4" (76mm x 102mm) vented cove base with pre-molded corners (specify black or brown).

PART 3 – EXECUTION

3.01 INSPECTION

- A. Inspect concrete slab for proper tolerance and dryness
- B. All work to put the concrete slab in acceptable condition shall be the responsibility of the Owner.

3.02 INSTALLATION

- A. Cover concrete slab with polyethylene lapping edges 6” (150mm) and seal with adhesive or 2” (50mm) duct tape.
- B. Pads shall be attached to the underside of the first layer of plywood 12” on center.
- C. Place the first layer of plywood diagonal or perpendicular to the intended direction of the finish flooring.
- D. Fasten the second layer of plywood without pads at a 45-degree angle or at right angles to the first layer. The plywood sheets must be nailed or stapled together with 1” fasteners starting from the center of the sheet working outward. No joint in the second layer of plywood shall coincide with a joint in the first layer. Allow 1/4" between panels at sides and edges, and a 2" expansion void at walls and vertical obstructions on both sheets of plywood.
- E. Machine nail strip flooring into the plywood subfloor, parallel to the long dimension of the area nail approximately 12” (300mm) on-center. Provide adequate expansion at regular intervals across the floor during installation as dictated by the average humidity conditions of the area according to the recommendations of the local flooring contractor. Provide 2" expansion voids at perimeters and all vertical obstructions. Install vent cove base over perimeter voids and metal thresholds at doorways.

3.03 FLOOR SANDING

- A. Use coarse, medium and fine grade sandpaper.
- B. After sanding, buff entire floor using 100-grit screen 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.

3.04 FINISHING

- A. Inspect entire area of floor to ensure that the surface is acceptable for finishing, completely free of sanding dust and perfectly clean.
- B. Apply seal and finish per manufacturer's instructions.
- C. Buff and vacuum or tack between each coat after it dries.
- D. Apply game lines accurately after the seal coat, after 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 the architect. Game line paint shall be compatible with finish. Allow for a solid painted border around the main basketball court, lettering at the base lines and a 4 color 12’ center court logo

3.05 BASE INSTALLATION

- A. Affix rubber base to wall with recommended adhesive or screws. Miter all corners carefully. Use premolded outside corners. Install aluminum thresholds as required, anchoring firmly in concrete floor beyond limits of wood flooring.