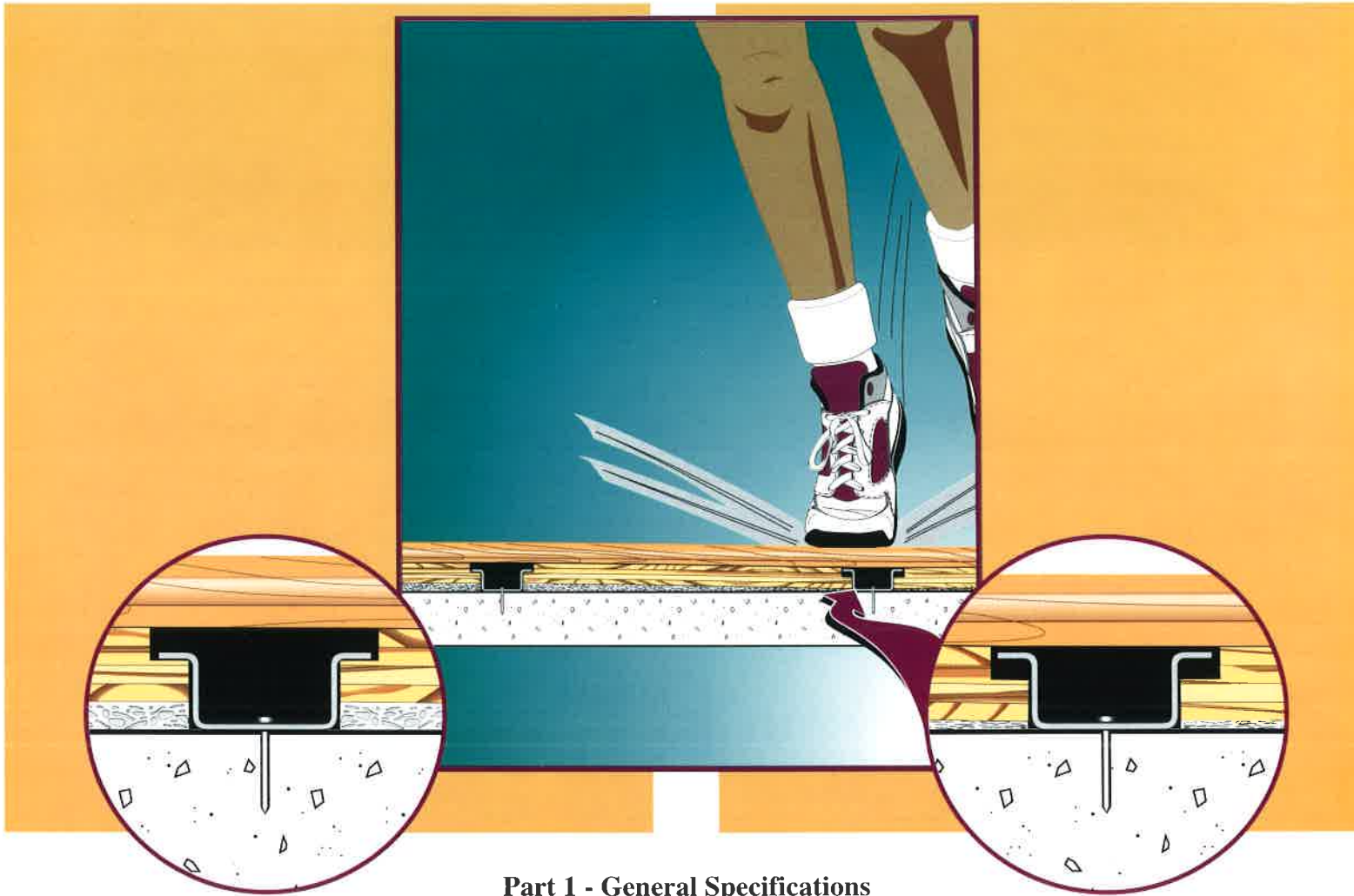


Power Panel Specification



Part 1 - General Specifications

1.1 Scope

The furnishing of materials, complete installation of the flooring systems described herein, including surface vaporproofing of the concrete slab, as well as laying, sanding, finishing, including application of game lines, and installation of perimeter moulding and base, is included in the wood flooring branch of work.

1.2 Concrete Subfloors

The general contractor shall furnish, install, and finish the concrete subfloors, depressing the slab sufficiently to accommodate the floor system. The slab shall be steel troweled to a true level and finished smooth and straight to a tolerance of 1/8" in any 10' radius. High Spots shall be ground level, and low spots filled with approved leveling compounds by the general contractor to the full approval of the wood flooring contractor.

1.3 Waterproofing

Concrete subfloors on or below grade shall be adequately waterproofed beneath the slab and at the perimeter by the general contractor using suitable type membrane. Below grade slabs or in areas with a hydrostatic head shall be adequately waterproofed beneath the slab on earth side of walls using 1/8" pre-molded membrane.

1.4 Flooring Contractor

The complete installation of the flooring systems as described in the scope of these specifications and herein, shall be carried out by an experienced, licensed wood floor contractor approved by the manufacturer, and the work shall be performed in accordance with the most recent installation instructions of the manufacturer.

1.5 Working Conditions

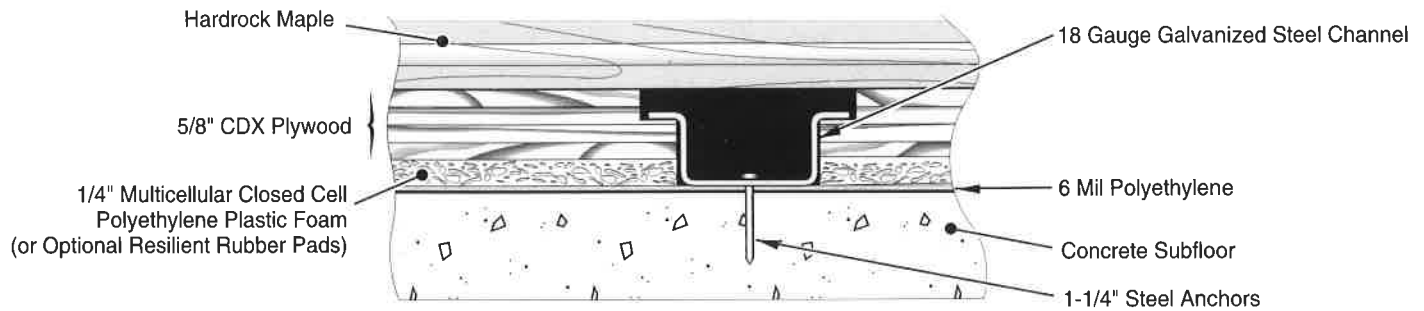
A. The wood flooring specified herein shall not be installed until all masonry, plaster, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in the wood floor areas. The building must be reasonably dry, all openings must be closed in, and permanent heating and air conditioning installed and working.

B. The subfloors shall be determined by industry standard testing procedures, free of foreign materials, and turned over to the wood flooring contractor broom clean. Moderate room temperature of 65 degrees 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 which will prevail when the building is occupied.

C. Flooring must be stored in a dry, well ventilated area, not in contact with the masonry, to acclimate to building conditions and shall be installed at a moisture content compatible with the normally expected environmental range of temperature and relative humidity while the facility is occupied. Uncontrolled environmental conditions as a result of non-working or nonexistent mechanicals may cause excessive flooring shrinkage and expansion.

D. Working conditions as described above shall be followed. Variations and substitutions shall be submitted for approval to the architect.

Power Panel Specification



Part 2 - Products

2.1 Materials

- A. Flooring
 1. Flooring shall be Laytite Maple, in widths of 2-1/4" or 1-1/2" and thicknesses of 25/32" or 33/32" Second and Better Grade Marked and Stamped as manufactured by Connor. AGA. (Slab Depressions for 25/32" and 33/32" shall be 1-5/8" and 1-7/8" respectively.)
 2. Other grades available: First Grade, Third and Better, and Third Grade.
- B. Subfloor shall be 5/8" CDX plywood in pre-assembled 2' x 4 panels.
- C. Foam
 1. Foam shall be 1/4" multicellular closed cell polyethylene plastic foam.
 2. Optional - Resilient rubber pads attached nominally 8" on center.
- D. Channel shall be at least 18-gauge galvanized steel, placed 2' on center.
- E. Steel anchors shall be 1-1/4" long pins applied with an air driven or low velocity powder actuated tool placed 14" on center.
- F. Vapor barrier shall be 6 mil polyethylene.
- G. Flooring fasteners shall be 1-1/2" barbed cleats or 1-1/2" epoxy coated staples.
- H. Wall base shall be 4" x 3" heavy duty, molded, vented rubber cove base with pre-molded outside corners.
- I. Finish material shall be oil modified seal and finish.

Part 3 Execution

3.1 Inspection

- A. On new construction, concrete aggregate shall be 3/4" screen crushed limestone or similar type material (no river gravel), free of curing agents. Concrete shall develop an average of 3500 psi compression strength after 28 days.

3.2 Installation

- A. Cover concrete with polyethylene, sealing and lapping joints a minimum of 6".
- B. Fasten first row of Power Panel Channel to concrete perpendicular to finish flooring with steel anchors driven approximately 12" on center along the base of Power Panel Channels, fastening pins within 3" of Power Panel Channel ends.
- C. Place subfloor panels with pads or foam attached parallel to Power Panel Channels, breaking end joints 1/4". Capture exposed side edges of subfloor panels with adjacent Power Panel Channels.
 1. Align each adjacent row of subfloor panels to form a 45° angle to strip flooring.
- D. Fasten each row of Power Panel Channels with ends offset 4' from previous rows, capture flange of plywood along preceding row.
- E. Install flooring parallel to main playing court by power nailing or stapling approximately 12" on center.
 1. Size joints between flooring strips to allow for intermediate expansion, in accordance with local humidity conditions.
 2. Provide 1-1/2" expansion voids at the perimeter and at all vertical obstructions.

3.3 Sanding

After installation the surface of the wood flooring shall be machine sanded smooth and level with coarse, medium and fine grades of sand paper and the edges sanded to match. (Note: A final disc sanding is recommended). Finishing shall be in accordance with the architect's specifications for finishing. See current MFMA list of tested and approved finishes.

3.4 Finishing

- A. Inspect the entire area of the floor to ensure that surface is acceptable for finishing, completely free from sanding dust, perfectly clean.
- B. Apply seal and finish per manufacturer's instructions.
 1. Apply at least two coats of seal and two coats of finish.
- C. Buff and clean floor between each coat of finish.
- D. Paint game lines, between seal and first coat of finish.
- E. Game line paint shall be compatible with finish.

3.5 Base Installation

Install vent cove base with base cement or screws and anchors.

3.6 Humidity Control

Since all wood flooring will expand and contract as relative humidity varies, it is important to minimize extremes between low and high. If prior experience indicates relative humidity during sustained heating periods will fall below 35%, building engineering shall provide for facilities to introduce moisture into the area when required. Conversely, if relative humidity increases to 50% or higher, measures should be taken to dry the building. This may require turning on the heat.

3.7 Drinking Fountains

To eliminate floor damage due to water spillage, allow for a concrete "pad" or other non-wood surface to be installed by others in an area approximately 4' x 4' in front of and to side of each water fountain.

3.8 Maintenance

Upon completion of the floor installation, the owner, attendants or individuals in charge and responsible for the upkeep of the building are to see that the care and maintenance instructions of the MFMA care card are followed.

3.9 Guarantee

Flooring shall be warranted free from defects in material and workmanship except as provided within the grade specified for a period of one (1) year from date of shipment. Contractors shall not be liable for incidental or consequential losses, damages or expenses, directly or indirectly arising from the sale, handling or use of the goods, or from any other cause relating thereto, and their liability hereunder in any case is expressly limited to the replacement of goods not complying to this agreement, or at their election, to the repayment of, or crediting Buyers with, an amount equal to the purchase price of such goods, whether such claims are for breach of warranty or negligence. Any claim by Buyer with reference to the goods sold hereunder for any cause shall be deemed waived by The Buyer unless submitted to contractor in writing within Thirty (30) days from the date Buyer discovered any claim breach.