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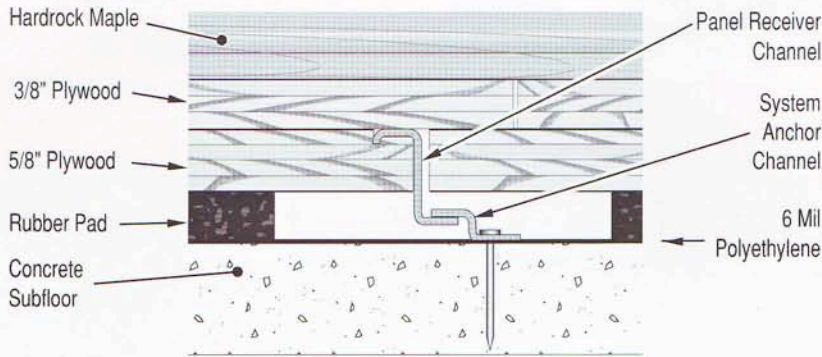
Southern Anchored Channel *Specification*

**The
Sports
Surface
That
Delivers
Outstanding
Performance
Season
After
Season**

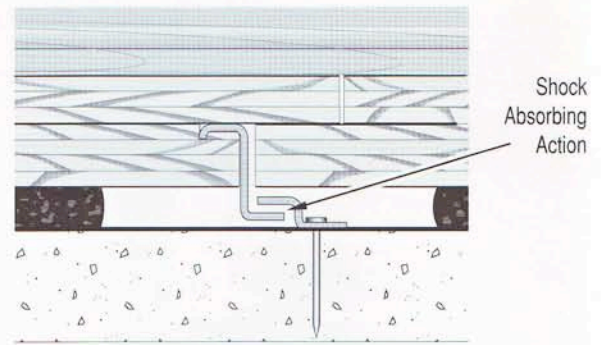


Innovations in sport surface technology

Southern Flooring, Inc.



Patent Number 6158185



Southern Anchored Channel System

PART 1 - GENERAL SPECIFICATIONS

1.1 DESCRIPTION

- A. This document specifies a wood strip gymnasium floor system consisting, in general, of plywood sub-flooring, maple flooring, steel channel anchors, vapor barrier, sanding, sealers, finishes, game lines and wall base.
- B. The general contractor shall provide a concrete slab smooth troweled and level to a tolerance of 1/8" in a 10'0" radius, subject to the approval of the wood flooring contractor.
LABOR AND MATERIALS NECESSARY TO PUT THE CONCRETE SLAB IN ACCEPTABLE CONDITION (HIGH AREAS GROUND DOWN AND LOW AREAS FILLED WITH THE APPROVED LEVELING COMPOUNDS) SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- C. Concrete sub-floors on or below grade shall have an adequate moisture barrier beneath and at the perimeter of the slab and on the earth side of below grade wall.
- D. Concrete slab depressions shall be 2-3/8" for 25/32", or 2-5/8" for 33/32" maple for the Southern Anchored Channel System.

1.2 SUBMITTALS

- A. General: Submit the following according to Conditions of Contract and Division 1 Specification Sections:
 1. Product data including manufacturer's detailed technical product data and instructions for installation, handling, storage, moisture protection, anchorage, finishing, protection and maintenance.
 2. Shop drawings showing layout and installation details including method of attachment, moisture proofing, substrate conditions, method of construction, relationships to surrounding construction, perimeter venting, base and trim details and other information and components not fully dimensioned or detailed in manufacturer's product data. Include layout, colors, widths and dimensions of game lines and markings.

3. Samples of flooring finish together with color chips for game line markings.

1.3 QUALITY ASSURANCE

- A. Installer qualifications: Installer shall have a minimum of 7 years experience with installation and finishing.
- B. Single-Source Responsibility for Flooring System: Engage a qualified Installer for the Southern Anchored Channel system to assume undivided responsibility for installing the complete flooring system, including (where applicable): moisture barrier, anchored channel sub-floor system, resilient mounts, vent cove base, thresholds, finish, marking and other accessory items indicated.
- C. General Standard: Comply in accordance with the Maple Flooring Manufacturing Associations (MFMA) standard and recommendation for flooring including grading rules.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Protect wood flooring from excessive moisture in shipment, storage and handling. Deliver in unopened cartons or bundles and store in a dry place with adequate air circulation. Do not deliver material to building until "wet work" such as concrete and plaster have been completed and cured to a condition of equilibrium.
- B. Moisture Content: At time of delivery to project, maintain 6 to 9 percent average moisture content.

1.5 PROJECT CONDITIONS

- A. Conditioning: Do not proceed with delivery and installation of wood flooring until spaces to receive flooring are enclosed, dry and maintained at approximately same humidity condition as planned for occupancy. Place wood flooring materials in spaces to be floored 3 days before starting installation. Open sealed packages of wood flooring to permit natural adjustment of moisture content. Maintain ambient temperature in range of 55; F to 75; F and a relative humidity range of 35 to 50 percent before, during and after installation of wood flooring.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Vapor barrier shall be 6-mil polyethylene.
- B. Flooring
 - 1. Flooring shall be 3/32" or 25-32" thick x 2-1/4" or 1-1/2" wide, First, Second and Better or Third grade, continuous tongue and groove and end matched Northern Hard Maple, graded in accordance with MFMA.
- C. Pre-manufactured Sub-Floor
 - 1. One layer of 5/8" APA rated plywood and one layer of 3/8" APA rated plywood stapled and glued together to consist of one 2' x 4' panel with 16 gauge galvanized steel Z channel embedded between the plywood sheets. Attached to the panel shall be 2" x 2" wide by 5/8" thick pro-gym rubber pads as manufactured by Southern Flooring, Inc spaced approximately 8" on center.
 - 2. A second channel shall be placed on the substrate approximately 2' on center and anchored approximately 14" on center. This channel will interlock with the first channel embedded in the plywood panel.
- D. Fasteners
 - 1. Anchors - 1-1/4" modified steel drive pins (900 lbs. Pull out strength).

PART 3 - EXECUTION

3.1 INSPECTION

- A. Inspect concrete slab for proper tolerance and dryness, and report any discrepancies to the general contractor.

3.2 INSTALLATION

- A. Cover entire slab with 6-mil. polyethylene, sealing and lapping joints a minimum of 6".
- B. Sub-Floor
 - 1. The pre-engineered plywood panel shall be laid perpendicular to finish flooring using "stair step" method. Each row shall be secured with a Southern Anchor Channel. Southern Anchor Channel shall be attached to concrete substrate using modified steel drive pins 14" on center apart and 3" from ends.
- C. Maple Flooring
 - 1. Install MFMA maple flooring parallel with the long dimension of room. Flooring shall be power nailed or stapled every 10" to 12" on center into the plywood panels.
 - 2. Expansion joints may be required between flooring strips intermittently throughout the floor. Requirements will be determined by site and geographical conditions.

- 3. Provide a 2" expansion void at all walls and permanent obstructions.

3.3 FLOOR SANDING

- A. Machine sand with coarse, medium and fine paper to a smooth, even and uniform surface.
- B. Remove sanding dust from entire surface by tack rag or vacuum.
- C. Refer to MFMA sanding and finishing guide for procedures.

3.4 FINISHING

- A. Inspect entire area of floor to insure that surface is acceptable for finishing, completely free from sanding dust and perfectly clean.
- B. Apply two coats of sealer.
- C. Buff and clean floor between each coat.
- D. Tape and paint game lines as shown on drawings, between seal and first coat of finish.
- E. Game line paint shall be compatible with finish
- F. Apply two coats of finish.
- G. Buff and clean floor between each coat.

3.5 BASE INSTALLATION

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

3.6 MAINTENANCE

- A. Upon completion of 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 Care Card are followed.

3.7 WARRANTY

- A. Southern Flooring, Inc. warrants its installation for a period of one (1) year from the date of substantial completion against defects arising due to faulty material or workmanship.
- B. This warranty does not cover damage caused by fire, winds, floods, chemicals or neglect of reasonable precaution to provide adequate ventilation during hot and humid weather. This warranty also does not cover damage due to excessive dryness or excessive moisture from humidity, spillage, migration through the slab or wall or any other source. Furthermore, this warranty does not cover damage to the floors caused by ordinary wear and tear, faulty construction of building, failure of other contractors to adhere to specifications, separation of concrete slab, settlement of walls, or use of water on floor.