

Rezill Panel/Sleeper

Photo captions:

- A.** Resilient Flex Station
- B.** Independent Load Station
- C.** Two layers of APA rated plywood
- D.** Multiflex Pad

Delivering ball return and uniformity

The Rezill Panel/Rezill Sleeper systems are excellent choices for all-purpose athletic use, as well as racquetball and aerobics. The Multiflex pad, with independent load stations, supports the subfloor and picks up heavy loads from bleachers and exercise equipment.

The quick response of the Rezill Panel/Rezill Sleeper flex stations results in high shock absorbency, whether athletes are alone or in a group.

Rezill Panel/Sleeper • Installations

Northwest High School, Indianapolis, IN • St George Academy School, Newport, RI • Shelton State Community College, Tuscaloosa, AL

PART 1 - GENERAL SPECIFICATIONS

General Specifications

These specifications relate to general areas for the flooring systems which must be completed for proper installation of the materials furnished by Connor•AGA. Connor•AGA does not undertake to do or supervise the work necessary under “General Specifications.”

The furnishing of material, complete installation of the flooring systems described herein, including surface vapor proofing of the concrete slab, as well as laying, sanding and finishing, including application of game lines with respect to the wood floor, and installation of perimeter molding and base, is included in the wood flooring branch of work.

1.1 DESCRIPTION

A. Related work specified under other sections.

1. CONCRETE SUBFLOORS - SECTION 03300

- a. The general contractor shall furnish and install the concrete subfloors 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' 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).
- b. NOTE: For Rezill Channel, Anchor-Flex, Permalock, Grip-Tite and Anchored Rezill Sleeper systems, the concrete slab aggregate shall be 3/4" screen crushed limestone or similar type materials (no river gravel or pea gravel) free of curing agents. Concrete shall develop an average of 3,500 PSI compression after 28 days.

2. MEMBRANE WATERPROOFING -SECTION 07100

- 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 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 equal to W.R. Meadows, Inc., Elgin, Illinois.

3. THRESHOLDS - SECTION 08700

4. GAME STANDARD INSERTS - SECTION 11500

1.2 REFERENCES

A. MFMA - Maple Flooring Manufacturers Association

B. DIN Standards 18021, Part 2

1.3 QUALITY ASSURANCE

A. MANUFACTURER: Manufacturer of resilient flooring shall be a firm specializing in manufacturing products specified in this section.

B. INSTALLER (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 installer (Flooring Contractor), and the work shall be performed in accordance with the most recent installation instructions of the manufacturer.

Installer (Flooring Contractor) 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 evaluated for athletic performance according to the international standard DIN 18032, Part 2.
2. Flooring system shall have been independently tested and evaluated for engineering performance according to the Structural Testing and Engineering Measures (STEM).

1.4 SUBMITTALS

A. Submit Connor•AGA specification sheets.

B. Sample - Submit one sample of specified system, if requested by architect.

C. Maintenance Literature - Upon completion of liner 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.

D. Limitation of Connor•AGA Representation and Warranty - The furnishing of the "specification sheets," sample of the "specified system," or "CARE CARD" does not constitute a representation or warranty of any nature, type or description by Connor•AGA. Connor•AGA's warranty is limited to that described at the end of this document under separate heading "Connor•AGA Representation."

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 must be reasonably dry, all openings must be closed in, and permanent heating and air conditioning installed and working.

- B. The concrete subfloor shall be determined dry by industry standard testing procedures, free of foreign material, and turned over to the installer (Flooring Contractor) broom clean. Moderate room temperature of 65° 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. Permanent heat, light and ventilation shall be installed and operating during and after installation, maintaining a temperature range of 55°F to 78°F and a relative humidity range of 35% to 50%. Ideal installation and storage conditions are the same as those which will prevail when building is occupied. Uncontrolled environmental conditions as a result of non-working or non-existing mechanicals may cause excessive flooring shrinkage or expansion.
- D. 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 achieved while the facility is occupied.
- E. After floors are finished, area shall be locked by general contractor to allow curing time for finish. If after required curing time general contractor or owner requires use of gym, 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•AGA of the same.

1.6 TREATING (Optional)

Wood flooring shall be treated with WOODLIFE when specified. WOODLIFE is a clear, penetrating, water repellent wood preservative that protects against mold, mildew, staining and decay fungi, and serves as a deterrent to termites and other insects.

1.7 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 each side of, water fountains.

1.8 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.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Vapor barrier - 6 mil polyethylene.
- B. Resilient pads
 - 1. Connor•AGA 7/16" x 1" x 2-3/4" Multiflex urethane pad
 - 2. Optional pad (specify above or delete) - Connor•AGA 7/16" x 2" x 2" R4 Rezill Pad
- C-1. Rezill Panel
 - 1. Plywood - 2 layers of 15/32" APA rated sheeting, Exposure 11.
 - 2. Plywood fasteners - 1" coated staples.
- C-2. Rezill Sleeper

1. Rezill-Sleeper - 2" x 3" x 4' Spruce, Fir, Pine or Hemlock dip-treated with WOODLIFE F preservative with pads attached 12" on center. Optional anchored sleepers are 2" x 3" x 8'.
 - a. Optional sleeper anchor (specify or delete) - 2-1/2" long steel drivepin (or as dictated by concrete conditions)
- C-3. Rezill Sleeper/Subfloor
 1. Rezill-Sleeper - 2" x 3" x 4' Spruce, Fir, Pine or Hemlock dip-treated with WOODLIFE F preservative with pads attached 12" on center. Optional anchored sleepers are 2" x 3" x 8'.
 - a. Optional sleeper anchor (specify or delete) - 2-1/2" long steel drivepin (or as dictated by concrete conditions)
 2. Subfloor - 15/32" APA rated plywood sheeting, Exposure 1.
 3. Subfloor fasteners - 1-1/2" coated staples.
- D. Flooring (Connor•AGA Laytite Maple)
 1. 25/32" x 2-1/4", Second & Better Grade, Northern Hard Maple Flooring, TGEM, MFMA Grade marked and stamped as manufactured by Connor•AGA, Amasa, MI.
 2. Options (specify above or delete)
 - a. Sizes - 25/32" x 1-1/2", 33/32" x 1-1/2", 33/32" x 2-1/4"
 - b. Grades: First Grade, Third Grade
 3. Treating (specify or delete) - flooring shall be treated with WOODLIFE F preservative.
- E. Flooring fasteners - 2" barbed cleats or coated staples.
- F. Finish materials - Connor•AGA Court-Time oil modified polyurethane seal and finish or equal.
- G. Gameline paint shall be compatible with finish.
- H. Wall Base - 3" x 4", heavy-duty, molded, vented cove base with pre-molded outside corners.

PART 3 - EXECUTION

3.1 INSPECTION by Installer (Flooring Contractor)

- 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. Installer (Flooring Contractor) to approve, in writing, all field conditions provided in these General Specifications prior to commencement of installation.

3.2 INSTALLATION

- A. Cover concrete with poly sealing and lapping joints a minimum of 6".
- B-1. Subfloor - Rezill Panel
 1. Install lower layer of subfloor perpendicular to finish maple flooring spacing edges 1/4" and breaking joints 4'. Attach resilient pads 12" on center (32 per sheet) and 6" from edges on all sides to underside of subfloor. Provide 1-1/2" expansion voids at perimeter and at all vertical obstructions. Install solid blocking at doorways and under bleachers in the stacked position.
 2. The second layer of subfloor shall be laid at a 45 degree angle over the first layer, 1/4" spacing at all edges and breaking joints 4'. Attach second layer subfloor with fasteners 12" on center.
- B-2 Subfloor - Rezill Sleeper
 1. Install sleepers at right angles to finish flooring 12" o/c for 33/32" flooring, 9" o/c for 25/32" flooring and 8" o/c for 25/32" and 33/32" third grade flooring. Space ends 1/4" and offset joints 24" in adjacent rows. Optional anchored sleeper - offset joints 48". Provide 2" expansion voids at perimeter and at all vertical obstructions.
 - a. Optional sleeper anchor (specify or delete) - Secure sleeper with steel anchors driven into anchor pockets provided per installation instructions.
- B-3. Subfloor - Rezill Sleeper/Subfloor

1. Install sleepers at right angles to finish flooring 12" o/c. Space ends 1/4" and offset joints 24" in adjacent rows. Optional anchored sleeper - offset joints 48". Provide 2" expansion voids at perimeter and at all vertical obstructions.
 - a. Optional sleeper anchor (specify or delete) - Secure sleeper with steel anchors driven into anchor pockets provided per installation instructions.
 2. Attach plywood subfloor with 8' edges parallel to and resting on sleepers. Set plywood in staggered brick pattern and offset plywood end joints by 1' from sleeper end joints. Optional anchored sleeper - offset plywood end joints 2'. Fasten plywood to sleeper using 1-1/2" staples fastened 12" on center.
- C. Maple flooring
1. Install maple flooring by power nailing or stapling 10" - 12" on center with end joints properly driven up.
 2. Size joints between flooring strips to allow for intermediate expansion, in accordance with local humidity conditions.
 3. Provide (1-1/2") (2") expansion voids at perimeter and at all vertical obstructions.

3.3 FINISHING

A. Maple Flooring

1. Machine sand with course, 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, completely free from sanding dust, perfectly clean.
4. Apply two coats of approved seal and two coats of approved finish per manufacturer's instructions.
5. Buff and clean floor between coats.
6. Game Lines: Apply game lines as indicated on drawings, between seal and first coat of finish.
7. Game line point shall be compatible with 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.

Connor•AGA

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