



KTL Sleeper System



The KTL Sleeper System is a hardwood floor system, utilizing the traditional sleeper system that allows for ideal shock absorption and ball bounce, while uniquely reducing vibration to a minimum. It's a great economical system that can be used for a multitude of sports.

The system utilizes the KTL 7/8" solid prefinished hardwood on the surface. This layer is then stapled to 1" x 4" sleepers with 3/8" foam strips adhered to them. The use of the foam makes vibration from ball bounce and the movement of other athletes on the floor virtually unfelt by other participants. No other type of wood floor can match this distinctive property of our padded system.

Even most larger floors can be installed in under a week since the prefinished surface does not require sanding and refinishing after installation. The system is also of a very low profile at 2-3/8"

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PART I - GENERAL CONDITIONS

1.01 BUILDING CONDITIONS

- A. The following conditions shall be satisfied before delivery, storage and handling of materials will be permitted to insure best product performance and to comply with the warranty.
1. Concrete subfloors on or below grade shall be adequately waterproofed beneath the slab and at the perimeter by the owner general contractor, using a suitable membrane. Below grade slabs or an area with possible development of hydrostatic pressure shall be adequately waterproofed beneath the slab and on the earth side of the walls with a .000 grains per square foot (S.F.) per hour water vapor transmission rating.
 2. Permanent electrical power shall be available in the installation area with adequate lighting.
 3. All masonry, painting, plastering, tile work, marble, and terrazzo work shall have been completed for thirty days.
 4. The building shall be tight and dry, with all windows and doors installed.
 5. Concrete shall be cured for a minimum of sixty days prior to floor system installation.
 6. The general contractor shall furnish, install, and finish the concrete subfloors, depressing the slab sufficiently to accommodate the specified floor system, if the architect calls for the slab to be depressed. The slab shall be steel troweled to a true level and finished smooth and straight to a maximum 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 wood flooring contractor. This condition should be noted in the concrete specifications.
 7. Outside doors shall have waterproofed thresholds and drip caps.
 8. Heating, ventilation, and air conditioning shall be functioning properly in areas where materials are to be stored and installed to maintain no less than 60 degrees Fahrenheit temperature and no more than 80 degrees Fahrenheit temperature, and relative humidity to be maintained no less than 40% and no more than 70%, by the general contractor or owner.
 9. Adequate accessibility to the building for stocking and storing materials from tractor/trailer shipment shall be provided by the owner or general contractor.
 10. Areas of floor installation shall be broom cleaned and free of debris.
 11. Alter floors are complete, if general contractor or owner requires, he shall protect the floor by covering with a nonfibred red rosin paper or other suitable covering with joints taped until acceptance by owner of completed floor. At no time is the paper to be glued to the floor or have an abrasive surface which could damage the surface of the floor.

1.02 GUARANTEE

- A. The flooring system is warranted against manufacturing defects for two (2) years after the flooring has been installed and maintained according to written specifications. Full details of the limited warranty shall accompany submittals.

PART II - PRODUCT

2.01 MATERIALS

A. FLOORING SYSTEM

1. System shall be constructed of Exterra Prefinished Flooring, two layers of plywood subflooring, and Isoflex recycled rubber pads, installed 12" O.C.

B. CUSHIONING SYSTEM AND MOISTURE PROTECTION

SHALL BE:

1. 3/8" closed cell polyethylene 2# foam rolls, cut to the width of the sleeper and adhered to the underneath side.

C. PLYWOOD SHEETING

1. Sleepers shall be 1" X 4" strips of softwood sleepers.

D. PREFINISHED FLOORING SHALL BE:

1. 7/8" solid kil-dried hardwood flooring boards as manufactured by KTL Timber Flooring. Floor assembly shall consist of two strips permanently glued, end matched, assembled and milled for tongue and grooved installation. Each floor board shall have a 5-1/8" x 7"

dimension.

2. Each board shall be factory sanded, sealed, and finished with two coats of two component pure polyurethane semigloss traction coating.
3. Bottom side of the flooring shall be sealed with a factory applied polyurethane finish.
4. A minimum quality of Standard Grade shall be used with the grade and production date stamped on the underside

E. FASTENERS

1. Fasteners shall be 2" coated staples or 2" barbed cleats.

F. PERIMETER MOLDING (OPTIONAL)

Any of the following three moldings may be used:

1. 2" x 4" sanitary type rubber base, color to be specified as black;
2. 3" x 4" ventilating type rubber base, color to be specified as black;
3. Wood base to be supplied and installed by owner or contractor.

G. THRESHOLD AND REDUCER STRIPS

1. Combination of wood and/or aluminum thresholds at doorways or reducer strips for transition from Exterra

3.01 INSPECTION

A. INSPECTION OF CONCRETE SUBFLOOR FOR LEVEL TOLERANCES

1. If level tolerances are not satisfied, general contractor shall be responsible for grinding high spots or filling low spots to meet specified level tolerances.

B. Concrete shall be broom cleaned by general contractor or owner.

C. All conditions must be satisfied as noted in the General Conditions under Section 1.01 Building Conditions before installation shall begin.

4.01 INSTALLATION

A. PROCEDURE:

1. 1/2" pads should stapled to plywood sheathing every 12" O.C. and around the perimeter of the floor at 12" intervals.
2. Install first layer of plywood subflooring parallel with the long dimension of the room, 1/4" spacing on all edges and breaking joints 4'. Provide 2" expansion voids at perimeter and all vertical obstructions.
3. The second layer of plywood can be either laid diagonally or on a 90 degree angle to the first layer. 1/4" spacing on all edges and breaking joints 4'. Attach second layer of plywood with nails or staples 12" on center and 6" from edges of plywood.
4. Flooring boards shall not be unwrapped until time of installation. No acclimation is necessary unless the average relative humidity is less than 30%. The finished flooring shall be installed parallel to the long dimension of the room.
5. Install finish flooring parallel with main playing court, by powernailing or stapling approximately 12" on center. Provide sufficient expansion spacers at regular intervals in surface of flooring during installation.
6. Allow a 2" expansion space between walls and the long sides of the boards. No expansion space shall be left on the short ends of the boards and these can be installed tightly to the walls or any vertical obstructions.
7. The second and subsequent rows of boards shall be at least 30" longer or shorter than the boards of the previous row to create a staggered effect.
8. Along vertical obstructions such as pipes, columns, etc., and expansion spacing shall be provided of a minimum of 2" on the long sides of the room only.

B. FINISHING & GAME LINING (OPTIONAL)

1. Lightly screen entire floor and clean surface, inspecting floor to insure that surface is completely free of sanding dust.
2. Paint game lines using a finish compatible game line paint.
3. Apply one coat of polyurethane flooring finish, following manufacturer's recommendations for application.

C. PERIMETER MOLDING

1. Install rubber base anchoring to the walls or other vertical surfaces with base cement, screws, nails or other type of anchors at intervals of 24' on center. Use premolded outside corners and neatly miter inside corners.

D. THRESHOLDS AND REDUCER STRIPS:

1. Install as needed at doorways and transition points.