

## SECTION 09

### RESILIENT WOOD FLOORING SYSTEM PORTABLE A3 SYSTEM

*The Portable A3 System is a hand carried, easily installed, low profile gymnasium, group exercise and dance floor system. The following specifications call out the material and default installation requirements necessary for the floor as recommended by Allied Products, LLC. It may be necessary to review and modify these specifications with Allied products, LLC for local codes or specific project requirements.*

#### PART 1 GENERAL

##### 1.01 DESCRIPTION

- A. Furnish portable hardwood flooring system, comprised of pre-fabricated wood flooring panels designed for quick and easy assembly, removal and storage.

##### 1.2 QUALITY ASSURANCE

- A. Floor System Supplier Qualifications:
  - 1. Manufacturer shall be an established firm experienced in field and have been in business for a minimum of ten (10) years: Allied Products, LLC, or pre-approved equal.
  - 2. Floor Contractor / Installer Qualifications and Certifications.
    - a. Regularly engaged and specializing, for the preceding 5 years, in installations of resilient wood flooring systems of equivalent type, size, and complexity. Installers shall be specifically trained and certified or otherwise approved in writing by the manufacturer of the resilient wood flooring system.
  - 3. System Performance Requirements:
    - a. System shall have been successfully tested in accordance with the minimum requirements of DIN 18032, Part 2, and EN 14904.
      - i. Shock absorption shall be 46 percent minimum.
      - ii. Ball return shall be at least 99.3 percent.
      - iii. Deflection: Point of Impact: 2.0 mm minimum.
      - iv. Friction: Range 0.5 to 0.7 in accordance with DIN test method.

##### 1.3 SUBMITTALS

- A. Manufacturers Product Data:
  - 1. Submit three (3) Junckers Portable A3 specification sheets.
  - 2. Suppliers shall submit certificates attesting that materials furnished will meet specifications for grade, quality, thickness and finish
  - 3. Concrete Guidelines: Submit three (3) copies of moisture testing results of concrete subfloor surfaces to receive wood flooring.
- B. Wood Floor System:
  - 1. Submit one (1) 10" x 12" system mock up sample showing construction and finishes.
  - 2. Submit copy of warranty and maintenance instructions.

##### 1.4 PROJECT CONDITIONS

- A. Environmental Requirements: During installation, maintain a temperature range of between 55 to 80 degrees F, and a relative humidity range of between 35 to 65 percent. Maintain temperature, relative humidity, and illumination levels equal to the environment that will prevail when the building is occupied prior, during, and after installation of work of this Section.
- B. Ensure that subfloor is smooth, flat, dry and structurally sound.

##### 1.5 WARRANTY

- A. Furnish a 3-year guaranty for the finished wood flooring and associated work, agreeing to repair or replace flooring which shrinks, warps, cracks, or otherwise deteriorates excessively, or which buckles, delaminates, or fails otherwise to perform as required or as represented by the manufacturer, due to failures of materials and workmanship.

**PART 2 - PRODUCTS****2.1 MANUFACTURERS**

- A. Design is based on the use of products manufactured by Junckers Hardwood Inc.

**2.2 MATERIALS**

- A. Subfloor Materials:
1. Vapor Barrier: Polyethylene film, clear, 6-mil (0.135mm) thickness.
  2. Performance Sport Foam: Sport foam underlayment in 3/8" (10mm) thickness.
- B. Finish Flooring:
1. Hardwood:
    - a. Species: Beech
    - b. Grade: [Classic] Harmony[Variation] grade.
    - c. Cut: Mini beveled edge, with tongue leading edge and grooved sides.
  2. Size:
    - a. Thickness: 7/8-inch (22mm).
    - b. Face Width: 20 1/4-inch (513 mm).
    - c. Lengths: 70 7/8-inch (1800 mm) Full and 35 3/8-inch (900 mm) Half
  3. Seasoning: Press-dried before milling, approximately 8 percent moisture content.
  4. Finish:
    - a. Exposed Surface: Factory sealed with two coats of two-component polyurethane.
    - b. Underside: Marked, stamped and sealed with a factory applied urethane coating, acting as an additional vapor barrier and wood floor stabilizer. Each panel shall have pre-attached portable connection brackets
    - c. Edges: Wax sealed by manufacturer to prevent panelization from occurring.
- C. Accessory Materials:
1. Reducers: Heavy-duty, aluminum clad reducers specifically designed for use with portable floor system must be used at all terminations of portable floor where foot traffic will occur.
  3. Joining Tongues: Shall be comprised of heavy duty plastic, designed to withstand multiple installations and removals.
  4. Tape: Standard duct tape.
  5. Brackets: Each panel shall have pre-attached joining brackets mounted to the underside, which are completely concealed after flooring is assembled.
  5. Removal Hook: Provide owner with hook tool to remove joining tongues from installed panels.
  6. Storage Cart: Sufficient quantity of storage carts shall be provided for rapid removal and handling of portable floor panels to and from the storage area. Each cart holds 40 full panels.
- D. Striping Paint: Junckers HP Game Line Paint.
- E. Floor Sealer: Junckers HP Sports Urethane.

**PART 3 – EXECUTION****3.01 INSPECTION**

- A. Verification of Conditions:
1. Ensure space to be floored is flat to a tolerance of 3/16" in 10 feet (4mm in 3m) with no more than 1/2-inch (13mm) deviation over entire area.
  2. Verify that the subfloor is smooth and dry, and can accommodate a 1-1/4 inches (32 mm) thick portable floor system.

**3.2 PREPARATION**

- A. Surface Preparation: Thoroughly clean area to receive wood flooring.
- C. Moisture Protection: Place vapor barrier over entire slab area to receive wood flooring, overlapping joints 6 inches (150mm) and extending up walls 2 inches (50mm). Seal edges using a compatible sealant, as recommended by manufacturer.

**3.3 INSTALLATION**

- A. General: Install work in accordance with the manufacturer's recommendations and Technical Information Sheet D3.1.1.
1. Pattern Direction: Lay flooring lengthwise with space to be floored.
  2. Expansion Spaces: Provide expansion space at walls and other obstructions, interruptions, and terminations of flooring.
    - a. At sides, leave 1/4-inch per 10 feet (2mm space per meter) width of room.
    - b. At ends, leave 1/8-inch per 10 feet (1mm space per meter) length of room.

- B. Subfloor: Unroll sport foam pad parallel to the length of the room butting edges. Tape may be used to hold edges of foam in place.
  - 1. For floors subject to heavy loads from portable bleachers or basketball goals, plywood shall be used to replace the sport foam in these areas to prevent any damage to the panels.
- C. Wood Flooring:
  - 1. The first row of panels is laid in a straight line with the tongue and steel bracket pointing in the laying direction.
  - 2. Each panel will be connected at the sides with a plastic joining tongue.
  - 3. The first time the floor is installed, all the panels shall be numbered on the bracket to ensure they are correctly placed each time the floor is re-installed to ensure game lines are aligned.
  - 4. The panels are installed in an interlocking pattern so that all side joints are staggered 35 3/8 inches (900 mm) from row to row.
- D. Finish:
  - 1. Preparation: Abrade entire floor surface with 120 grit sanding pads or screens. Remove dust and contaminants from floor surfaces and from room by sweeping, mopping, and vacuuming. Take precautions to prevent dust infiltration during finishing operations.
  - 2. Apply games lines, graphics, and other floor markings as indicated on Contract Documents. Mask flooring to provide sharp edges.
  - 3. Sealer: Apply two coats of floor sealer and buff between each coat. Prevent heavy traffic on finished floor for a minimum of 10 days.
- E. Accessories:
  - 1. Install wall base, thresholds, and other cover trim as indicated on Contract Drawings for expansion spaces at edges, vertical obstructions, and interruptions of flooring.
  - 2. Apply wood molding where changes of floor finishes occur, matching color and finish of wood flooring.

#### 3.4 REMOVAL AND STORAGE

- A. Remove any perimeter reducer.
- B. Remove loose joining tongues row by row using the removal hook.
- C. Carefully take up panels and stack in storage carts. Space the individual panels to ensure optimum ventilation. Each Storage cart will hold 40 full panels.
- D. Panels to be stored in same climatic condition as where the floor will be used.

**END OF SECTION**