

SECTION 09 64 66 WOOD ATHLETIC FLOORING

Grid – builtbygrid.com - Dallas, Texas USA – 469.482.9800

CSI | Grid Click Wood

PART 1 – GENERAL

1.01 SCOPE INCLUDES

- A. Wood flooring as shown on the drawings and schedules and as indicated by the requirements of this section.

1.02 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Contract (including General and Supplementary Conditions and Division 1 sections) apply to the work in this section only.

1.03 RELATED SECTIONS

1. Concrete and Concrete Finishing - Section 03300
 - a. Concrete Slab Depression: a total of 1 1/4" (32mm)
 - b. Surface Finish: Steel troweled and finished smooth 1630 - Product Options and Substitutions
 - c. Concrete Tolerance: 3/16" (4mm) in a 10' (3m) radius
 - d. Compressive Strength: Concrete shall be a minimum of 3,000 psi and a maximum of 4,000 psi compressive strength after 28 days
 - e. Floor Flatness and Floor Levelness (FF and FL) numbers are not recognized
2. Membrane Waterproofing and Damp proofing – Section 07100
 - a. Concrete subfloors on or below grade shall be adequately waterproofed beneath the slab and the perimeter walls and on the below grade walls by general contractor using suitable type membrane.
3. Thresholds and Finish Hardware – Section 08700
4. Game Standard Inserts – Section 11500

1.04 QUALITY ASSURANCE AND REGULATORY REQUIREMENTS

- A. Floor System Manufacturer Qualifications:
 1. Manufacturer shall be an established firm experienced in field and have been in business for a minimum of ten (10) years: Grid Wood, 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 98 percent.
 - iii. Deflection: Point of Impact: 2.4 mm minimum.
 - iv. Friction: Range 0.5 to 0.7 in accordance with DIN test method.

1.05 SUBMITTALS

- A. Manufacturers Product Data:
 1. Submit three (3) Grid Click Wood specification sheets.
 2. Suppliers shall submit certificates attesting 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 mockup sample showing construction and finishes.
 2. Submit copy of warranty and maintenance instructions.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver wood materials until after wet operations in building are completed, building is fully enclosed, weather tight, and permanent heating, ventilating, lighting systems, scoreboards and backstops are installed and operational.
- B. In extreme climate conditions, place wood flooring materials in the rooms or spaces to be floored at least 10 days in advance of the start of installation. Open packages of wood flooring that are sealed to permit natural adjustment of moisture content.

1.07 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 the concrete subfloor has been cured a minimum of 60 days.
- C. General Contractor is responsible to ensure slab is clean, broom sweep and free of all dirt and debris prior to the floor installation beginning.

1.08 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
 - B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official.
 - 1. Material Limited Warranty Period: 5 years after substantial completion is reached
 - 2. Installation Limited Warranty Period: 1 year after substantial completion is reached
- Specifier Note:** Coordinate paragraph above with manufacturer's warranty details

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. **Grid Click Wood.** Dallas, TX 75206 | Phone 469.482.9800 | Email: info@builtbygrid.com
 - 1. Grid Color Standard: Beech
 - a. **Additional Colors Stains:** Refer to website
 - 2. Thickness: 1 ¼" (32mm)

2.02 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 Species: Beech.
 - b. Grade: Refer to website for options
 - c. Cut: Square edged, tongue and groove sides.
 - 2. Size:
 - a. Thickness: 7/8-inch (22mm).
 - b. Face Width: 5-1/16-inch (129mm).
 - c. Lengths: 6 feet (1800mm).
 - 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.
- c. Edges: Wax sealed by manufacturer to prevent panelization from occurring.

C. Accessory Materials:

- a. Thresholds: 5-inch (125mm) wide aluminum, [stainless steel] flat stock, not less than 1/4-inch (6mm) thick. Provide stainless steel fasteners to match threshold finish.
- b. Vented Base: Heavy-duty, molded, vented, rubber cove base with pre-molded outside corners.
- c. Size shall be 4 inches (100mm) high with 3-inch (75mm) horizontal leg in longest lengths practicable. Color shall be as selected by Architect from manufacturer's standard colors.
- d. Clip Fasteners: Grid's standard steel installation clip, specifically designed for use with Grid Click Wood 5-inch by 6-foot prefinished planks.
- e. Logo: Refer to Grid's Logo and Lines approval document
- f. Adhesive: Grid's standard header joint adhesive.
- g. Striping Paint: Grid Game Line Paint.
 - i. Refer to website for color options

PART 3 EXECUTION

3.01 INSPECTION

A. Verification of Conditions:

1. Confirm that below grade moisture barriers have been properly installed.
2. Verify that floor is level to a tolerance of 3/16" in 10 feet (4mm in 3m) with no more than 1/2-inch (13mm) deviation over entire floor slab area.
 - a. Ensure that high areas are ground and low areas filled with approved flooring compound until acceptable to flooring manufacturer.
3. Verify that concrete floor slab is relatively smooth with no sharp ridges and is depressed 1-1/4 inches (32 mm) below adjacent finished floor elevation.

3.02 PREPARATION

- A. Surface Preparation: Thoroughly clean area to receive wood flooring.
- B. Install floor sleeves and accessories supplied under the gymnasium equipment section as required. Coordinate with other trades to ensure proper location and anchorage is achieved.
- 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.

3.03 INSTALLATION OF FLOORING

- A. General: Install work in accordance with the manufacturer's recommendations outlined in Technical Information sheet D 2.1.1.
 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 pad parallel to the width of the room butting edges. Tape may be used to hold edges of foam in place.
 - 1. Install solid blocking at doorways, under bleachers in stacked position, and below portable goals.
 - 2. If bleachers present, coordinate with bleacher manufacturer and provide extra support at wheels or bearing points.

- C. Wood Flooring:
 - 1. With the underside of the plank facing up, the end of the clip with the hole(s) is hammered into the clip slot so that the long arm of the clip extends beyond the tongue of the plank.
 - 2. Clip spacing is 18 inches on centers, and within 2 inches (50 mm) to 4 inches (100 mm) of all vertical obstructions.
 - 3. Ensure that the clips from row to row do not touch each other by alternating them (in line) by 2 inches (50 mm).
 - 4. Glue all head joints with Header Joint Adhesive. Do not glue the lengths of the planks, except for the last row which may need to be glued if the clip slot is trimmed to fit the size of the room.
 - 5. Stagger end joints in a random pattern by at least 32 inches (800mm).
 - 6. Ensure that joint lines are straight and parallel to major walls.

- 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.

3.04 CLEANING AND PROTECTION

- A. Immediately after sealer coat is dry, cover flooring with protective covering.
- B. Prior to final inspection, remove protective covering, repair any damage to the flooring, clean, and machine buff the entire floor area.

