SECTION 096400 - WOOD FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes wood flooring.

1.2 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples: For each type of wood flooring and accessory.

1.3 QUALITY ASSURANCE

A. Hardwood Flooring: Comply with NOFMA's "Official Flooring Grading Rules" for species, grade, and cut.

1.4 PROJECT CONDITIONS

A. Conditioning period begins not less than seven days before wood flooring installation, is continuous through installation, and continues not less than seven days after wood flooring installation.

1. Environmental Conditioning: Maintain an ambient temperature between 65 and 75 deg F and relative humidity planned for building occupants in spaces to receive wood flooring during the conditioning period.
2. Wood Flooring Conditioning: Move wood flooring into spaces where it will be installed, no later than the beginning of the conditioning period.

    a. Do not install flooring until it adjusts to relative humidity of, and is at same temperature as, space where it is to be installed.
    b. Open sealed packages to allow wood flooring to acclimatize immediately on moving flooring into spaces in which it will be installed.

B. After conditioning period, maintain relative humidity and ambient temperature planned for building occupants.

C. Install factory-finished wood flooring after other finishing operations, including painting, have been completed.

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PART 2 - PRODUCTS

2.1 WOOD FLOORING

A. Solid-Wood Flooring Tiles: Kiln dried to 6 to 9 percent maximum moisture content, tiles composed of individual solid wood strips joined together by two aluminum wires.
   1. Basis-of-Design Product: Subject to compliance with requirements, provide Zena Forest Products; Zena EdgeGrain.
   2. Species and Grade: Oregon white oak.
   3. Cut: Edge grain.
   4. Thickness: 3/4 inch.
   5. Finishing: Field.

2.2 FIELD FINISHING

A. Oil Finish System: Two-component hardened penetrating oil system of compatible components recommended by the finish manufacturer for application indicated.
   1. Basis-of-Design Product: Pallman; Magic Oil 2k.

B. Wood Filler: Compatible with finish system components.

2.3 ACCESSORY MATERIALS

A. Vapor Retarder: ASTM D 4397, polyethylene sheet not less than 6.0 mils thick.

B. Asphalt-Saturated Felt: ASTM D 4869, Type II.

C. Wood Flooring Adhesive: Mastic recommended by flooring and adhesive manufacturers for application indicated.

D. Thresholds and Saddles: Metal. Tapered on each side.

E. Reducer Strips: Metal. 2 inches wide, tapered, and in thickness required to match height of flooring.

PART 3 - EXECUTION

3.1 PREPARATION

A. Concrete Slabs: Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.

   1. Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft., and perform no fewer than two tests in each installation area and with test areas evenly spaced in installation areas.

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a. Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.

B. Concrete Slabs: Grind high spots and fill low spots to produce a maximum 1/8-inch deviation in any direction when checked with a 10-foot straight edge.

1. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, and depressions in substrates.

C. Remove coatings, including curing compounds, and other substances on substrates that are incompatible with installation adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.

D. Broom or vacuum clean substrates to be covered immediately before product installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, or dust. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with flooring manufacturer's written installation instructions, but not less than applicable recommendations in NWFA's "Installation Guidelines: Wood Flooring.".

B. Provide expansion space at walls and other obstructions and terminations of flooring per manufacturer’s recommendations.

C. Vapor Retarder: Comply with NOFMA's "Installing Hardwood Flooring" for vapor retarder installation and the following:
1. Wood Flooring Installed Directly on Concrete: Install a layer of polyethylene sheet according to flooring manufacturer's written instructions.

D. Sound Control Underlayment: Install over vapor retarder in accordance with manufacturer's written instructions.

E. Solid-Wood Flooring Tiles: Glue down, full trowel spread over subfloor.

3.3 FIELD FINISHING

A. Machine-sand flooring to remove offsets, ridges, cups, and sanding-machine marks that would be noticeable after finishing. Vacuum and tack with a clean cloth immediately before applying finish.

1. Comply with applicable recommendations in NWFA's "Installation Guidelines: Wood Flooring.".

B. Fill and repair wood flooring seams and defects.

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C. Apply floor-finish materials in number of coats recommended by finish manufacturer for application indicated.
   1. For water-based finishes, use finishing methods recommended by finish manufacturer to minimize grain raise.

D. Cover wood flooring before finishing.

E. Do not cover wood flooring after finishing until finish reaches full cure, and not before seven days after applying last finish coat.

3.4 PROTECTION

A. Protect installed wood flooring during remainder of construction period with covering of heavy kraft paper or other suitable material. Do not use plastic sheet or film that might cause condensation.

END OF SECTION 096400

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