

SECTION 09 64 00  
WOOD FLOORING AND PATCHING

**PART 1 - GENERAL**

1.1 DESCRIPTION

Section specifies wood flooring, floor finish system and other items required for complete installation.

1.2 SCOPE OF WORK

- A. Replacement of wood flooring where indicated.
- B. Patching wood flooring where indicated.
- C. Patching where pipes, radiators and other intrusions are being removed.

1.3 QUALITY ASSURANCE

- A. Hardwood Flooring: Comply with NOFMA grading rules for species, grade, and cut.
- B. Certification: Provide flooring that carries NOFMA grade stamp on each bundle or piece.

1.4 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

**1.5 DELIVERY AND STORAGE**

- A. Deliver floor in manufacturer's original wrappings and packages clearly labeled with manufacturer's name, brand, name, size, and related information.
- B. Deliver adhesives in containers clearly labeled with manufacturer's name, brand name, number, installation instructions, safety instructions and flash points.
- C. Store in a clean, dry, well-ventilated area, protected from damage and soiling. Maintain storage space at a temperature above 16 degrees C (60 degrees F) for 2 days prior to installation.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Certified Wood: Wood-based materials [produced from tropical forests] shall be certified as "FSC Pure" or "FSC Mixed Credit" according to FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship," and to FSC STD-40-004, "FSC Standard for Chain of Custody Certification."

1.7 Warranty

A. Carpet and installation subject to terms of "Warranty of Construction" FAR clause 52.246-21, except that warranty period is extended to two years.

**PART 2 - PRODUCTS**

2.1 FIELD-FINISHED WOOD FLOORING

A. Solid-Wood Strip and Plank Flooring: Kiln dried and as follows:

1. Species and Grade: White Oak for new locations, wood at patching locations to match adjacent. All wood to meet NWFA Standards and be NHLA Number 2A Common grade.
2. Cut: Plain sawn.
3. Thickness: 3/4 inch (19 mm)
4. Face Width: 5 inches.
5. Lengths: Random-length strips complying with applicable grading rules.
6. Simulated Wood Pegs: In new wood floor location, contrasting wood pegs at ends of plank flooring. At patching locations, match adjacent.

B. Urethane Finish System: Complete water-based system of compatible components that is recommended by finish manufacturer for application indicated.

1. Stain: Penetrating and nonfading type.
2. Stains: Not more than 250 g/L. "Low-Emitting Materials" Subparagraph below is based on ICC 700, "National Green Building Standard."
3. Low-Emitting Materials: Finish system materials shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
  - a. Low-Emitting Materials: Adhesives shall have a VOC content of 100 g/L or less. "Low-Emitting Materials" Subparagraph below is based on ICC 700, "National Green Building Standard."
  - b. Low-Emitting Materials: Adhesives shall comply with Green Seal's GS-36 and with the testing and product requirements of the California Department of

Health Services' "Standard Practice for the Testing  
of Volatile Organic Emissions from Various Sources  
Using Small-Scale Environmental Chambers."

C. Fasteners: As recommended by manufacturer, but not less than  
that recommended in NWFA's "Installation Guidelines: Wood  
Flooring."

1. Color: As selected by architect.
2. Floor Sealer: Pliable, penetrating type.
3. Finish Coats: Formulated for multicoat application on  
wood flooring.

D. Wood Filler: Compatible with finish system and recommended by  
filler and finish manufacturers. If required to match approved  
samples, provide pigmented filler.

## 2.2 ACCESSORY MATERIALS

A. Vapor Retarder: ASTM D 4397, polyethylene sheet not less than  
6.0 mils (0.15 mm) thick.

B. Asphalt Saturated Felt.

C. Wood Flooring Adhesive: Mastic recommended by flooring and  
adhesive.

D. Install wood baseboard as indicated in drawings. Unless  
otherwise noted, baseboard shall match as closely as possible the  
architectural characteristics of the adjacent baseboard.

## **PART 3 - EXECUTION**

### 3.1 NEW FLOOR INSTALLATION

A. At new flooring locations, 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 of not less than [3/4 inch (19 mm)].

C. Vapor Retarder: Comply with NOFMA's "Installing Hardwood  
Flooring" for vapor retarder. Sample installation and the  
following:

1. Wood Flooring Nailed to Wood Subfloor: Install flooring  
over asphalt saturated felt.

D. Plank Flooring: Blind nail or staple flooring to substrate.

1. Plank Flooring: For flooring of face width more than 3 inches (75 mm), install not less than two countersunk nails at each end of each piece, spaced not more than 16 inches (406 mm) along length of each piece, in addition to blind nailing. Fill holes with matching wood filler.

### 3.2 WOOD FLOOR PATCHING

- A. Match species, dimension, grade, direction of strips patterns and borders of adjacent flooring.
- B. Flooring patch shall be smooth without humps or depressions.
- C. Flooring patch shall minimize visual appearance of patch lines. Construct joints within manufacturer-allowed tolerances, stagger joints, and do not allow joints to occur side by side; separate by at least two strips
- D. Butt flooring patches tightly against vertical surfaces, door jambs, casings, etc.
- E. Scribe as necessary to create a clean, stable cut with the existing floor, and to fit around objects.
- F. Scribed joints must be cut neatly and square.
- G. Drive nails diagonally, and space as required by manufacturer. Nail at ends of each strip. Pre-drill as necessary to prevent splits, nail type as specified by manufacturer.

### 3.3 SHOE MOLDING AND BASEBOARDS

- A. Install shoe molding and baseboard per Section 06 20 00 Finish Carpentry, and as specified herein.
  - 1. Install shoe molding and baseboard tight to wall and floor.
  - 2. Fasten shoe molding and baseboard to walls only, not floors, to cover expansion space.
  - 3. Miter joints in shoe moldings and baseboards at outside corners, joints and at ends.
  - 4. Cope joints at inside corners of shoe moldings and baseboards.
  - 5. Install shoe molding and baseboard in adequate lengths to minimize joints.
  - 6. Set and fill all nail holes in shoe molding and baseboard.
  - 7. Finish shoe molding and baseboard as indicated in drawings.

8. Retain and reuse existing shoe molding and baseboard.  
Replace only where missing, or where damaged by rot or intrusion.

### 3.4 SANDING AND 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.
- B. Fill open-grained hardwood.
- C. Fill all nail holes with manufacturer's recommended wood filler compound.
- D. Apply floor-finish materials in number of coats recommended by finish manufacturer for application indicated, but not less than one coat of floor sealer and three finish coats.
  1. Apply stains to achieve an even color distribution matching approved Samples.
  2. Apply final finish as soon as possible after sanding is complete, and as per manufacturer's instructions.

### 3.5 INSPECTION, REPAIR AND TOUCH-UP

- A. Securely protect flooring from damage by construction traffic or further construction work.
- B. Repair or replace any damaged or defective work:
  1. Chipped
  2. Scratched
  3. Marred
  4. Stained
  5. Joints that are not tight
  6. Gaps at walls, jambs or trim.

END OF SECTION