

## **SECTION 06200 - FINISH CARPENTRY**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. This Section includes the following:
  - 1. Exterior standing and running trim.
  - 2. Interior standing and running trim.
  
- B. Related Sections: The following Sections contain requirements that relate to this Section:
  - 1. Division 6 Section "Rough Carpentry" for furring, blocking, and other carpentry work not exposed to view.
  - 2. Division 6 Section "Rough Carpentry" for structural wood decking and framing exposed to view.
  - 3. Division 9 Section "Painting" for priming and back priming of finish carpentry.

#### **1.3 SUBMITTALS**

- A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.
  
- B. Product Data for each type of factory-fabricated product and process specified, including details of construction relative to materials, dimensions of individual components, profiles, textures, and colors.

#### **1.4 QUALITY ASSURANCE**

- A. **Installer Qualifications:** Engage an experienced Installer who has completed finish carpentry similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.

## **1.5 DELIVERY, STORAGE, AND HANDLING**

- A. **Delivery and Storage:** Keep materials under cover and dry. Protect against exposure to weather and contact with damp or wet surfaces. Stack lumber, plywood, and other panels. Provide for air circulation within and around stacks and under temporary coverings.
- B. Do not deliver interior finish carpentry until environmental conditions meet requirements specified for installation areas. If finish carpentry must be stored in other than installation areas, store only where environmental conditions meet requirements specified for installation areas.

## **1.6 PROJECT CONDITIONS**

- A. **Environmental Limitations:** Do not deliver or install interior finish carpentry until building is enclosed and weatherproof, wet-work in space is completed and nominally dry, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels through the remainder of construction period.
- B. **Weather Limitations:** Proceed with installing exterior finish carpentry only when existing and forecasted weather conditions will permit work to be performed according to manufacturer's recommendations and warranty requirements and at least one coat of specified finish to be applied without exposure to rain, snow, or dampness.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS, GENERAL**

- A. **Lumber Standards:** Comply with DOC PS 20, "American Softwood Lumber Standard," for lumber and with applicable grading rules of inspection agencies certified by American Lumber Standards Committee Board of Review.
- B. **Inspection Agencies:** Inspection agencies, and the abbreviations used to reference them, include the following:

1. NELMA - Northeastern Lumber Manufacturers Association.
2. NHLA - National Hardwood Lumber Association.
3. NLGA - National Lumber Grades Authority.
4. RIS - Redwood Inspection Service.
5. SCMA - Southern Cypress Manufacturers Association.
6. SPIB - Southern Pine Inspection Bureau.
7. WCLIB - West Coast Lumber Inspection Bureau.
8. WWPA - Western Wood Products Association.

C. **Grade Stamps:** Provide lumber with each piece factory marked with grade stamp of inspection agency evidencing compliance with grading rule requirements and identifying grading agency, grade, species, moisture content at time of surfacing, and mill.

1. For exposed lumber, furnish pieces with grade stamps applied to ends or back of each piece, or omit grade stamps entirely and provide certificates of grade compliance issued by inspection agency.

## **2.2 EXTERIOR STANDING AND RUNNING TRIM**

A. **Lumber Trim:** Provide finished lumber and moldings complying with the following requirements including those of the grading agency listed with species:

1. Species: Redwood; RIS.
  - a. Grade: B.
2. Species: Western red cedar; NLGA, WCLIB, or WWPA.
  - a. Grade: B.
3. Species: Southern yellow pine; SPIB.
  - a. Grade: B & B.
4. Texture: Surfaced (smooth).
5. Texture: One face saw textured, the other surfaced (smooth).
6. Lumber for Transparent Finish (Stained or Clear): Solid lumber stock.
7. Lumber for Painted Finish: Glued-up lumber or solid lumber stock.

## **2.3 INTERIOR STANDING AND RUNNING TRIM**

**FINISH CARPENTRY**

- A. **Softwood Trim:** Provide finished lumber and moldings complying with the following requirements including those of the grading agency listed with species:
1. **Species:** Eastern white pine; NELMA or Idaho white, lodgepole, ponderosa, or sugar pine; WWPA.
  2. **Species:** Western red cedar, NLGA, WCLIB, or WWPA.
  3. **Species:** Douglas fir; NLGA, WCLIB, or WWPA.
  4. **Grade:** Superior Finish.
  5. **Texture:** Surfaced (smooth).
  6. **Lumber for Transparent Finish (Stained or Clear):** Solid lumber stock.
  7. **Lumber for Painted Finish:** Glued-up lumber or solid lumber stock.
- B. **Hardwood Trim:** Provide finished hardwood lumber and moldings complying with the following requirements:
1. **Species:** Clear, kiln-dried white hardwoods.
  2. **Species and Cut:** Rift-sawn, clear, kiln-dried red oak selected for compatible grain and color.
  3. **Texture:** Surfaced (smooth).
  4. **Lumber for Transparent Finish (Stained or Clear):** Solid lumber stock.
  5. **Lumber for Painted Finish:** Glued-up lumber or solid lumber stock.
- F. **Shelving and Clothes Rods:** Provide the following:
1. **Shelving:** 3/4 inch plywood shelving with banded radiused and filled front edge.

## 2.4 MISCELLANEOUS MATERIALS

- A. **Fasteners for Exterior Finish Carpentry:** Provide nails of the following materials, in sufficient length to penetrate minimum of 1-1/2 inches into substrate, unless otherwise recommended by manufacturer.
1. Stainless steel.
  2. Hot-dip galvanized steel.
- B. **Fasteners for Interior Finish Carpentry:** Nails, screws, and other anchoring devices of type, size, material, and finish required for application indicated to provide secure attachment, concealed where possible.

1. Where finish carpentry materials are exposed in areas of high humidity, provide fasteners and anchorages with hot-dip galvanized coating complying with ASTM A 153.
- C. Glue: Aliphatic- or phenolic-resin wood glue recommended by manufacturer for general carpentry use.
- D. Flashing: Comply with requirements of Division 7 Section "Sheet Metal Flashing and Trim" for flashing materials installed in finish carpentry.
  1. Horizontal Joint Flashing for Siding: Preformed galvanized steel or aluminum Z-shaped flashing.
- E. Sealants: Comply with requirements of Division 7 Section "Joint Sealants" for materials required for sealing siding work.

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine substrates, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting installation and performance of finish carpentry. Do not proceed with installation until unsatisfactory conditions have been corrected.

#### **3.2 PREPARATION**

- A. Clean substrates of projections and substances detrimental to application.
- B. Condition finish carpentry to average prevailing humidity conditions in installation areas before installation, for a minimum of 24 hours unless longer conditioning is recommended by manufacturer.
- C. Prime and backprime lumber for painted finish exposed on the exterior. Comply with requirements for surface preparation and application in Division 9 Section "Painting."

#### **3.3 INSTALLATION, GENERAL**

- A. Do not use finish carpentry materials that are unsound, warped, improperly treated or finished, inadequately seasoned, or too small to fabricate with proper jointing arrangements.
  - 1. Do not use manufactured units with defective surfaces, sizes, or patterns.
- B. Install finish carpentry plumb, level, true, and aligned with adjacent materials. Use concealed shims where required for alignment.
  - 1. Scribe and cut finish carpentry to fit adjoining work. Refinish and seal cuts as recommended by manufacturer.
  - 2. Countersink nails, fill surface flush, and sand where face nailing is unavoidable.
  - 3. Coordinate finish carpentry with materials and systems in or adjacent to standing and running trim and rails. Provide cutouts for mechanical and electrical items that penetrate exposed surfaces of trim and rails.
- C. Finish according to specified requirements.
- D. Refer to Division 9 Sections for final finishing of finish carpentry.

### **3.4 STANDING AND RUNNING TRIM INSTALLATION**

- A. Install with minimum number of joints practical, using full-length pieces from maximum lengths of lumber available. Do not use pieces less than 24 inches long, except where necessary. Stagger joints in adjacent and related standing and running trim. Cope at returns and miter at corners to produce tight-fitting joints with full-surface contact throughout length of joint. Use scarf joints for end-to-end joints. Plane backs of casings to provide uniform thickness across joints, if required.
  - 1. Match color and grain pattern across joints.
  - 2. Install trim after gypsum board joint finishing operations are completed.
  - 3. Drill pilot holes in hardwood before fastening to prevent splitting. Fasten to prevent movement or warping. Countersink fastener heads on exposed carpentry work and fill holes.
  - 4. Fit exterior joints to exclude water. Apply flat grain lumber with bark side exposed to weather.

### **3.5 ADJUSTING**

- A. Repair damaged or defective finish carpentry where possible to eliminate functional or visual defects. Where not possible to repair, replace finish carpentry. Adjust joinery for uniform appearance.

### **3.6 CLEANING**

- A. Clean finish carpentry on exposed and semiexposed surfaces. Touch up factory-applied finishes to restore damaged or soiled areas.

### **3.7 PROTECTION**

- A. Provide final protection and maintain conditions that ensure finish carpentry is without damage or deterioration at the time of Substantial Completion.

END OF SECTION 06200

