

SECTION 062023 – INTERIOR FINISH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Interior baseboards, windows stools and aprons.
2. Interior handrails at metal pan stairs.
3. Shelving and clothes rods.

B. Related Sections:

1. Section 055100 – Metal Pan Stairs
2. Section 064300 – Wood Stairs and Railings
3. Section 099123 – Interior Painting

C. Abbreviations/Definitions:

1. MDF: Medium-density fiberboard.
2. MDO: Plywood with a medium-density overlay on the face.
3. PVC: Polyvinyl chloride.

D. Reference and Industry Standards

1. The following reference standards shall be applicable to this Section:
 - a. The current Enterprise Green Communities (EGC) Criteria and the current New York City Overlay.
2. Industry Standards
 - ALSC (American Lumber Standard Committee)
 - ANSI (American National Standards Institute)
 - ASTM (American Society for Testing and Materials)
 - BHMA (Builders Hardware Manufacturers Association)
 - CARB (California Air Resources Board)
 - FSC (Forest Stewardship Council)
 - NeLMA (Northeastern Lumber Manufacturers Association)
 - NHLA (National Hardwood Lumber Association)
 - NLGA (National Lumber Grades Authority)
 - MMPA (Moulding & Millwork Producers Association)
 - SCAQMD (South Coast Air Quality Management District)
 - SPIB (Southern Pine Inspection Bureau)
 - TSCA (Toxic Substances Control Act)

- WCLIB (West Coast lumber Inspection Bureau)
- WWPA (Western Woods Products Association)

E. The current NYC Overlay of the current Enterprise Green Communities Criteria:

1. Mandatory Requirements: See the NYC Overlay of the EGC reference standard for full specifications.
 - a. All projects must achieve compliance with the mandatory criteria measures that are applicable:
 - Criterion 6.4: Healthier Material Selection
 - Criterion 6.10: Construction Waste Management
2. Optional Project Requirements for Certification Points
 - a. Additionally, rehab projects are required to achieve **55** optional points. Criteria with optional points related to this Specification Section include, but may not be limited to:
 - Criterion 6.1: Ingredients Transparency for Material Health
 - Criterion 6.2: Recycled Content and Ingredients Transparency
 - Criterion 6.3: Chemical Hazard Optimization
 - Criterion 6.5: Environmentally Responsible Material Selection
 - Criterion 6.7: Regional Materials
 - Criterion 6.10: Construction Waste Management

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product.
- B. Shop Drawings:
 1. Show location of each item on dimensioned plans and elevations and large-scale details.
 2. Show methods of attachment of item to substrate.
- C. Test reports for materials tested to ASTM E84 for flame-spread rating.
- D. Physical sample of each item.

1.3 INFORMATIONAL SUBMITTALS

- A. Documentation for compliance with Enterprise Green Communities Criteria.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, comply with applicable rules of any rules-writing agency certified by the American

Lumber Standard Committee's (ALSC) Board of Review. Grade lumber by an agency certified by the ALSC's Board of Review to inspect and grade lumber under the rules indicated.

1. Factory mark each piece of lumber with grade stamp of grading agency.
2. For exposed lumber, mark grade stamp on end or back of each piece.

B. Certified Wood: The following wood products shall be produced from wood obtained from forests certified by an FSC-accredited certification body to comply with the latest edition of FSC-STD-01-001, FSC Principles and Criteria for Forest Stewardship and FSC STD-40-004, FSC Standard for Chain of Custody Certification.

1. Interior baseboard, window stools and aprons.
2. Shelving and clothes rods.
3. Interior handrails at metal stairs.

C. Composite Wood Products:

1. All composite wood products (plywood, OSB, MDF, cabinetry) must have formaldehyde emissions less than or equal to thresholds provided by CARB Phase 2 and/or TSCA Title IV.
2. For interior products not covered by the above requirements, products must have no added urea formaldehyde (NAUF).
3. If using a composite wood product, all exposed edges and sides must be sealed with low-VOC sealants, per Criterion 6.2.

D. Quality Standards: Unless otherwise indicated, comply with the latest edition of Architectural Woodwork Standards for grades of interior architectural woodwork indicated for construction, finishes, installation and other requirements.

E. Softwood Plywood: DOC PS 1.

F. Hardboard: ANSI A135.4.

G. MDF: ANSI A208.2, Grade 130.

H. PVC for interior baseboards: ASTM D3678.

2.2 BASEBOARD, WINDOW STOOLS AND APRONS

A. Softwood Lumber Trim for Transparent Finish (Stain or Clear Finish):

1. Species and Grade:
 - a. Eastern white pine; NeLMA or NLGA 1 Common.
2. Maximum Moisture Content: 15 percent.
3. Finger Jointing: Allowed.
4. Face Surface: Surfaced (smooth).

- B. PVC baseboard for areas where mold has been found to exist.

2.3 SHELVING AND CLOTHES RODS

- A. Shelving: Made from 3/4 inch thick:
 - 1. Softwood Boards:
 - a. Kiln-dried eastern white or ponderosa pine, NeLMA, NLGA, or WWPA 2 Common (Sterling).
 - B. Shelf Cleats: 3/4-by-3-1/2-inch boards.
 - C. Shelf Brackets with Rod Support: BHMA A156.16, B04051; prime-painted formed steel.
 - D. Shelf Brackets without Rod Support: BHMA A156.16, B04041; prime-painted formed steel.
 - E. Wood Clothes Rods: 1-1/2-inch-diameter, clear, kiln-dried hardwood.
 - F. Metal Clothes Rods: 1-5/16-inch-diameter, coated-steel tubes with heavy-duty rod sockets.
 - G. Wood Rod Flanges: Clear, kiln-dried, eastern white or ponderosa pine.

2.4 WOOD RAILINGS AT METAL STAIRS

- A. Interior Railings: Clear, kiln-dried, Quarter-sawn red oak transparent finish.
 - 1. Handrails shall not have a flame-spread rating exceeding 150.
 - 2. Handrail profile shall be as indicated on Drawings.

2.5 MISCELLANEOUS MATERIALS

- A. 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.
- B. Glue: Aliphatic-resin, polyurethane, or resorcinol wood glue recommended by manufacturer for general carpentry use.
 - 1. Wood glue shall have a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- C. Avoid epoxy-based caulks and epoxy-based sealants, as these contain Bisphenol A. Bisphenol A was listed on March 29, 2010 by the EPA as a “chemical of concern.”

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean substrates of projections and substances detrimental to application.
- B. Before installing interior finish carpentry, condition materials to average prevailing humidity in installation areas for a minimum of 24 hours unless longer conditioning is recommended by manufacturer.

3.2 INSTALLATION, GENERAL

- A. Install interior finish carpentry level, plumb, true, and aligned with adjacent materials.
 - 1. Use concealed shims where necessary for alignment.
 - 2. Scribe and cut interior finish carpentry to fit adjoining work. Refinish and seal cuts as recommended by manufacturer.
 - 3. Where face fastening is unavoidable, countersink fasteners, fill surface flush, and sand unless otherwise indicated.
 - 4. Install to tolerance of 1/8 inch in 96 inches for level and plumb. Install adjoining interior finish carpentry with 1/32-inch maximum offset for flush installation and 1/16-inch maximum offset for reveal installation.
 - 5. Coordinate interior finish carpentry with materials and systems in or adjacent to it. Provide cutouts for mechanical and electrical items that penetrate interior finish carpentry.

3.3 INSTALLATION OF RUNNING TRIM

- A. Install trim with minimum number of joints as is practical, using full-length pieces from maximum lengths of lumber available.
 - 1. Do not use pieces less than 24 inches long, except where necessary.
 - 2. Stagger joints in adjacent and related standing and running trim.
 - 3. Miter at returns, miter at outside corners, and cope at inside corners to produce tight-fitting joints with full-surface contact throughout length of joint.
 - 4. Use scarf joints for end-to-end joints.
 - 5. Install trim after gypsum-board joint finishing operations are completed.
 - 6. Install without splitting; drill pilot holes before fastening where necessary to prevent splitting.
 - 7. Fasten to prevent movement or warping.
 - 8. Countersink fastener heads on exposed carpentry work and fill holes.

3.4 INSTALLATION OF SHELVING AND CLOTHES RODS

- A. Cut shelf cleats at ends of shelves about 1/2 inch less than width of shelves and sand exposed ends smooth.
 - 1. Install shelf cleats by fastening to framing or backing with finish nails or trim screws, set below face and filled.

2. Space fasteners not more than 16 inches o.c. Use two fasteners at each framing member or fastener location for cleats 4 inches nominal in width and wider.
 3. Remove adhesive that is squeezed out after fastening shelf cleats in place.
- B. Install shelf brackets according to manufacturer's written instructions, spaced not more than [**32 inches**] [**36 inches**] o.c. Fasten to framing members, blocking, or metal backing, or use toggle bolts or hollow wall anchors.
- C. Install standards for adjustable shelf supports according to manufacturer's written instructions. Fasten to framing members, blocking, or metal backing, or use toggle bolts or hollow wall anchors. Space fasteners not more than 12 inches o.c.
- D. Install standards for adjustable shelf brackets according to manufacturer's written instructions, spaced not more than 36 inches o.c. and within 6 inches of ends of shelves. Fasten to framing members, blocking, or metal backing, or use toggle bolts or hollow wall anchors.
- E. Cut shelves to neatly fit openings with only enough gap to allow shelves to be removed and reinstalled.
1. Install shelves, fully seated on cleats, brackets, and supports.
 2. Fasten shelves to cleats with finish nails or trim screws, set flush.
 3. Fasten shelves to brackets to comply with bracket manufacturer's written instructions.
- F. Install rod flanges for rods as indicated.
1. Fasten to shelf cleats, framing members, blocking, or metal backing, or use toggle bolts or hollow wall anchors.
 2. Install rods in rod flanges.
- 3.5 RAILING INSTALLATIONS
- A. Handrails: Secure handrails to metal stairs as indicated on Shop Drawings.

END OF SECTION 062023