

SECTION 062023 - INTERIOR FINISH CARPENTRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:

1. Plastic-laminated window sills.
2. Interior standing and running trim including wood base and chair rail.
3. Plastic-laminated shelving and clothes rods.
4. Plastic-laminated shelving and heavy duty wall standards.
5. Coat hooks in a series mounted on rails.

- B. Related Sections include the following:

1. Division 06 Section "Miscellaneous Rough Carpentry" for furring, blocking, and other carpentry work not exposed to view.
2. Division 06 Section "Interior Architectural Woodwork" for shop-fabricated interior millwork and casework.
3. Division 06 Section "Wood Paneling".

1.3 DEFINITIONS

- A. Lumber grading 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. SPIB: The Southern Pine Inspection Bureau.
5. WCLIB: West Coast Lumber Inspection Bureau.
6. WWPA: Western Wood Products Association.

- B. MDF: Medium-density fiberboard.

1.4 SUBMITTALS

A. Samples for Verification:

1. For each species and cut of lumber with non-factory-applied finish, with 1/2 of exposed surface finished, 50 sq. in. (300 sq. cm) for lumber.
2. For closet rods, 4 inch (100 mm) long piece with rod flange at one end.

1.5 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in-service performance. Shop is a certified participant in AWI's Quality Certification Program.
- B. Quality Standard: Unless otherwise indicated, comply with AWI's "Architectural Woodwork Quality Standards" for grades of interior architectural woodwork indicated for construction, finishes, installation, and other requirements.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect materials against weather and contact with damp or wet surfaces. Stack lumber, plywood, and other panels flat with spacers between each bundle to provide air circulation. Provide for air circulation within and around stacks and under temporary coverings.
- B. Deliver interior finish carpentry materials only when environmental conditions meet requirements specified for installation areas. If interior finish carpentry materials must be stored in other than installation areas, store only where environmental conditions meet requirements specified for installation areas.

1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install interior finish carpentry materials until building is enclosed and weatherproof, wet work in space is completed and nominally dry, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.
- B. Do not install finish carpentry materials that are wet, moisture damaged, or mold damaged.
 1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Provide materials that comply with requirements of AWI's quality standard for each type of woodwork and quality grade specified, unless otherwise indicated.
- B. Lumber: DOC PS 20 and applicable grading rules of inspection agencies certified by ALSC's Board of Review.
 - 1. Factory mark each piece of lumber with grade stamp of inspection agency indicating grade, species, moisture content at time of surfacing, and mill.
- C. Softwood Plywood: DOC PS 1.
- D. Hardboard: AHA A135.4.
- D. Medium Density Fiberboard (MDF): ANSI A208.2, Grade 130; EPP Certified MDF made with binder containing no urea-formaldehyde resin.
- E. Particleboard: ANSI A208.1, Grade M-2; EPP Certified Particleboard, made with exterior glue containing no urea-formaldehyde resin.
- F. High Pressure Decorative Laminate: NEMA LD 3, grades as indicated or, if not indicated, as required by woodwork quality standard.
 - 1. Manufacturer: subject to compliance with requirements, provide high-pressure decorative laminated by one of the following:
 - a. Abet Laminati, Inc.
 - b. Arborite; Division of ITW Canada, Inc.
 - c. Formica Corporation
 - d. Lamin-Art, Inc.
 - e. Nevamar Company, LLC; Decorative Products Div.
 - f. Panolam Industries International Incorporated.
 - g. Westinghouse Electric Corp.; specialty Products Div.
 - h. Wilsonart International; div. of Premark International, Inc.
- G. Melamine-Faced Particleboard: Particleboard complying with ANSI A208.1, Grade M-2, finished on both faces with thermally fused, melamine-impregnated decorative paper complying with LMA SAT-1.

2.2 PLASTIC-LAMINATE WINDOW SILLS

- A. Grade: Premium
- B. High-Pressure Decorative Laminate Grade: HGS.

- C. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
 - 1. Match Architect's sample.
- D. Edge Treatment: Same as laminate cladding on horizontal surfaces.
- E. Core Material: particleboard or medium-density fiberboard; 3/4 inch (19 mm) thick.
- F. Backer Sheet: Provide plastic-laminate backer sheet, Grade BKL, on underside of shelving substrate.

2.3 PLASTIC-LAMINATE CLOSET SHELVING, CLOTHES RODS, EXPOSED ADJUSTABLE WALL SHELVING

- A. Grade: Premium
- B. High-Pressure Decorative Laminate Grade: HGS.
- C. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
 - 1. Match Architect's sample.
- D. Edge Treatment: Same as laminate cladding on horizontal surfaces.
- E. Core Material: particleboard or medium-density fiberboard; 3/4 inch (19 mm) thick.
- F. Backer Sheet: Provide plastic-laminate backer sheet, Grade BKL, on underside of shelving substrate.
- G. Shelf Cleats: [3/4-by-3-1/2-inch (19-by-89-mm) particleboard or MDF for same laminate cladding as shelving.
- H. Clothes Rods: 1-5/16-inch- (33-mm-) diameter, chrome-plated steel tubes.
- I. Rod Flanges: Chrome-plated steel.
- J. Adjustable Wall Shelf Supports: Surface-type steel standards and steel shelf brackets, with epoxy powder-coated or zinc-plated finish, complying with BHMA A156.9, Types B04102 and B04112.

2.4 COAT HOOK PANELS

- A. Basis of Design Product: Subject to requirements, provide Magnusson Group Architectural Series K-801 Single Prong Coat Hooks mounted on manufacturer's

standard 4 inch wide and customized plastic-laminated panels, as called on Drawings. Length and width of panel varies with number of hooks required per location.

1. Locations: Anatomic Pathology B0303; Ante Room B1817; Anesthesia Clean Workroom B2342; Staff Locker Rooms 4204, 5204.
2. Spacing: 6 and 8 inches on center, as indicated on Drawings.
3. Finish of hooks: Manufacturer's silver anodized aluminum.
4. Finish of panel: Manufacturer's Featherstone Gray.

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. Use wood glue that has a VOC content of 30 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- C. Multipurpose Construction Adhesive: Formulation complying with ASTM D 3498 that is recommended for indicated use by adhesive manufacturer.
 1. Use adhesive that has a VOC content of 70 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

2.6 FABRICATION

- A. Back out or kerf backs of the following members except those with ends exposed in finished work:
 1. Interior standing and running trim.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Examine finish carpentry materials before installation. Reject materials that are wet, moisture damaged, and mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 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.

3.3 INSTALLATION, GENERAL

- A. Do not use materials that are unsound, warped, improperly treated or finished, inadequately seasoned, or too small to fabricate with proper jointing arrangements.
- B. Install interior finish carpentry level, plumb, true, and aligned with adjacent materials. Use concealed shims where necessary for alignment.
 - 1. Scribe and cut interior finish carpentry to fit adjoining work. Refinish and seal cuts as recommended by manufacturer.
 - 2. Countersink fasteners, fill surface flush, and sand where face fastening is unavoidable.
 - 3. Install to tolerance of 1/8 inch in 96 inches (3 mm in 2438 mm) for level and plumb. Install adjoining interior finish carpentry with 1/32-inch (0.8-mm) maximum offset for flush installation and 1/16-inch (1.5-mm) maximum offset for reveal installation.
 - 4. 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.

3.4 SHELVING AND CLOTHES ROD INSTALLATION

- A. Cut shelf cleats at ends of shelves about 1/2 inch (13 mm) less than width of shelves and sand exposed ends smooth.
- B. Install shelf cleats by fastening to framing or backing with countersunk, chrome-plated screw., Space fasteners not more than 16 inches (400 mm) o.c.
 - 1. Apply a bead of multipurpose construction adhesive to back of shelf cleats right before installing. Remove adhesive that is squeezed out immediately after fastening shelf cleats in place.
- C. Cut shelves to neatly fit closet openings with only enough gap to allow shelves to be removed and reinstalled. Install shelves, fully seated on cleats, and supports.
 - 1. Install shelves and cleats with no more than 1/8 inch in 48 inches (3 mm in 1200 mm) sag, bow, or other variations from a straight line.
 - 2. Fasten shelves to cleats with finish nails or trim screws.
 - 3. Caulk space between shelves and wall with sealant specified in Division 07 Section "Interior Joint Sealants."

- D. Install rod flanges for rods as indicated. Fasten to shelf cleats, framing members, blocking, or metal backing, or use toggle bolts or hollow wall anchors. Install rods in rod flanges.
- E. Install standards for adjustable shelf brackets according to manufacturer's written instructions, spaced not more than 36 inches (900 mm) o.c. and within 6 inches (150 mm) of end of shelves. Fasten to framing members, blocking, or metal backing, or use toggle bolts or hollow wall anchors. Space fasteners not more than 12 inches (300 mm) o.c.
 - 1. Install shelves, fully seated brackets.
 - 2. Fasten shelves to brackets to comply with bracket manufacturer's written instructions.

3.5 ADJUSTING

- A. Replace interior finish carpentry that is damaged or does not comply with requirements. Interior finish carpentry may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing. Adjust joinery for uniform appearance.

3.6 CLEANING

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

3.7 PROTECTION

- A. Protect installed products from damage from weather and other causes during remainder of the construction period.
- B. Remove and replace finish carpentry materials that are wet, moisture damaged, and mold damaged.
 - 1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 062023