

Montgomery County Public Schools Facilities Guide
DIVISION 6 - WOOD AND PLASTICS
SECTION 06400

ARCHITECTURAL WOODWORK

PART 1 GENERAL

1.01 GUIDE INCLUDES

- A. Custom architectural woodwork as described below, including:
 - 1. Computer stations
 - 2. Adjustable shelving
 - 3. Mailbox unit
 - 4. Cubbies

1.02 RELATED SECTIONS

- A. Section 12340 "Educational Casework" for typical classroom casework.
- B. Section 12345 "Laboratory Casework" for science room casework.
- C. Section 12350 "Media Center Furnishings" for IMC (Instructional Media Center) casework and book shelving.
- D. Section 12340 "Educational Casework" for counter tops.

1.03 QUALITY ASSURANCE

- A. Installer shall be specialized in installing casework for minimum of five years and acceptable to Manufacturer.
- B. Verify dimensions of spaces by field check measurements. Verify sizes and shapes of counter tops and fillers required for finished installation.
- C. Millwork Standard: AWI Quality Standards, Section 1500.
- D. Standard: AWI Quality Standards, Section 1400C, counter top.
- E. Wood work shall be factory finished.

1.04 WARRANTIES

- A. Warrant components of millwork against defects of material and workmanship for at least 3 years from date of Substantial Completion.

1.05 SUBMITTALS

- A. Shop drawings.
- B. Full size sample of typical millwork (sample may be incorporated into final work if in good condition). Owner has right to take one unit (selected at random) off-site for destructive testing. Contractor shall replace this unit at no extra cost to Owner.
- C. Submit location of manufacturer and, if applicable, harvest of wood-based materials.
- D. Submit recycled-content data, designating percentages of post-consumer and pre-consumer recycled materials, if applicable.
- E. Submit rapidly renewable material content data, if applicable.
- F. Submit FSC-certification with chain-of-custody for wood-based materials, if applicable.
- G. Submit manufacturer's certification that composite wood products, agrifiber products and field-applied adhesives and sealants installed in building interior meet e testing and product requirements of California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.
- H. Submit manufacturer certification that all pressure-treated lumber uses one of the approved non-

CCA wood treatment products.

- I. Submit certification of application of borate treatment to woodwork in contact with slab.
 1. Submit MSDS for any applicable products used.

Products to be verified for LEED-NC version 2.2, EQc4 compliance.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Fabricators of architectural woodwork components located within 500-miles of the project site
 1. Southside Manufacturing Corp.; Danville, VA.
 2. Daly
 3. Cavetown
- B. No other manufacturers shall be acceptable unless prior approval is obtained in accordance with Section 01630 - "Substitutions".

2.02 MATERIALS

A. Alternate: Wood components, shall be FSC-certified as originating from a sustainably harvested forestry operation..

- B. Composite wood and agrifiber products installed in building interior shall meet testing and product requirements of California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.
 1. At minimum, products need to comply with VOC limits specified in LEED 2.2. EQc4. if alternatives tested to the CA protocol are not available.
- C. Give preference to rapidly renewable agrifiber and/or recycled content wood components
- D. Preservative treatment shall use one of following products (CCA pressure treatment is prohibited):
 1. Chemical Specialties "ACQ Preserve"
 2. Arch Treatment Technologies "Wolmanized Natural Select Wood"
 3. Osrose Wood Preserving "NatureWood"
- E. Field-applied adhesives and sealants used within building interior shall meet testing and product requirements of California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.
 1. At minimum, products need to comply with VOC limits specified in LEED 2.2. EQ c4. if alternatives tested to CA protocol are not available.
- F. Termite Treatment: Borate-based surface treatment.
- G. Solid Hardwood:
 1. Moisture content of 4 1/2 percent
 2. Clear, color and graining in conformance with normally accepted standards required of Scientific Laboratory Equipment Industry.
- H. Plywood: HPVA (Hardwood Plywood and Veneer Association) - HP-1

DESIGNER TO INDICATE SPECIE.

1. Core thickness as required with crossbands of 1/20 inch poplar.
2. Exposed surfaces - exterior face of 1/32 inch thick plain sliced Select Grade 1 hardwood and back face of 1/32 inch thick sound hardwood.
3. Unexposed surfaces - clear hardwood Grade A veneer face with Grade B back.
4. Plywood shall have high grade clear veneers and assembled with poly-vinyl emulsion glue.
5. Plywood shall be free of urea-formaldehyde,

- I. High Pressure Plastic Laminate:
 - 1. Vertical Surface; High pressure plastic laminate for exterior cabinet surfaces shall meet NEMA LD-3; GP28 for vertical grade, GP-50 for horizontal grade. Liner - 0.020 inch thick.
 - 2. Counter Top; High pressure plastic laminate, satin or textured finish minimum 0.050 thickness.
 - 3. Balancing Sheet; Heavy gauge high pressure plastic laminate backing sheet shall be textured surface and meet NEMA standards.
 - 4. Color Selection; Select from standard manufacturer's color selections, matte finish.
- J. High Performance Particle Board Core:
 - 1. Particle board to be of 45 psf density, and balanced construction with moisture content not to exceed 8 percent. Particle boards shall meet or exceed requirements of CPA/ANSI A208.1, Grade 1-M-2:
 - a. Screw holding, face 225 lbs.
 - b. Screw holding, edge 200 lbs.
 - c. Modulus of Rupture 2,400 psi
 - d. Modulus of Elasticity 45,000 psi
 - e. Internal Bond 60 psi
 - f. Surface Hardness 900 psi
 - 2. Particle board shall be free of urea-formaldehyde.
 - 3. Provide pricing alternate for horizontal surfaces made from Richlite or Paperstone wood-fiber panels.
- K. Hardboard:
 - 1. Shall meet or exceed AHA/ANSI 135.4.
 - 2. Tempered hardboard 1/4 inch thick minimum- smooth both sides.
- L. Hardware:
 - 1. Exposed finish shall be satin chromium plated: BHMA 626 for brass or bronze base; BHMA 652 for steel base.
 - 2. Adjustable shelf standards and related supports; Provide standards and supports which comply with ANSI/ BHMA A156.9.
 - a. Vertical slot type supports; BHMA No. B84102, zinc-plated steel
 - b. Shelf brackets; Provide size required to support shelving widths which comply with BHMA No. B84112, zinc-plated steel.
 - 3. See Section 12340 "Educational Casework" for additional requirements.

PART 3 STANDARD DETAILS

3.01 SEE PROJECT MANAGER FOR STANDARD DETAILS TO COMPLY WITH

- A. Install woodwork in a manner consistent with Division 1 Indoor Air Quality Management Requirements.

3.02 WASTE MANAGEMENT

- A. Recycle clean (unpainted, untreated) waste wood materials in accordance with Division 1 Construction Waste Management Requirements.

3.03 TERMITE TREATMENT

- A. Field-apply borate surface treatment to lower 12 inches of architectural woodwork in contact with slab on grade.

END OF SECTION