

SECTION 123500.11 - or - SECTION 12304
LAMINATE CLAD CASEWORK – MUSIC INSTRUMENT STORAGE

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Fixed modular laminate clad music instrument storage casework and components.

1.02 RELATED SECTIONS

- A. Blocking within walls where indicated: Division 6.
B. Base molding: Division 9.

1.03 DEFINITIONS

- A. Identification of casework components and related products by surface visibility.
1. Open Interiors: Any open storage unit without solid door fronts, and units with wire grille doors.
 2. Closed Interiors: Any closed storage unit behind solid doors.
 3. Exposed Ends: Any storage unit exterior side surface that is visible after installation.
 4. Other Exposed Surfaces: Faces of solid doors when closed.
 5. Concealed Surfaces: Any surface not visible after installation.

1.04 QUALITY ASSURANCE

- A. Manufacturer: Minimum of 5 years experience in providing manufactured music instrument storage casework systems for similar types of projects, produce evidence of financial stability, bonding capacity, and adequate facilities and personnel required to perform on this project.

OPTIONAL LANGUAGE: Architectural Woodwork Quality Standards (Delete if not required.)

- B. Quality Standard: Unless otherwise indicated, comply with AWI's Architectural Woodwork Quality Standards for grades of interior architectural woodwork, construction, finishes and other requirements.
1. Provide AWI Quality Certification Program LABELS indicating that the woodwork complies with requirements of the grade specified. This project has been registered as AWI/QCP project number (ENTER NUMBER HERE).
 1. Provide AWI Quality Certification Program CERTIFICATE indicating that the woodwork complies with requirements of the grade specified. This project has been registered as AWI/QCP project number (ENTER NUMBER HERE).
 1. The contractor, upon award of work, shall register the work under this section with the AWI Quality Certification Program (Phone: 800.449.8811).

1.05 SUBMITTALS

- A. Comply with Section 01330, unless otherwise indicated.
- B. Product Data: Manufacturer's catalog with specifications and construction details.
- C. Shop Drawings: Indicate dimensions, description of materials and finishes, general construction, specific modifications, component connections, anchorage methods, hardware, and installation procedures, plus the following specific requirements.
1. Include section drawings of typical and special casework, work surfaces and accessories.
 2. Indicate locations of plumbing and electrical service field connection by others.
- D. Casework Samples:
1. Cabinet sample shall be complete with specified hardware for doors, and examples of all component finishing.
 2. Component samples: Two sets of samples for each of the following:
 - a. Decorative laminate color charts.
 - b. PVC and ABS edging.
 3. A wire grille door and stay close latch sample in the final finish and color shall be provided upon request.

1.06 PRODUCT HANDLING

- A. Deliver completed laminate clad casework and related products only after wet operations in building are completed, store in ventilated place, protected from the weather, with relative humidity range of 25 percent to 55 percent.

- B. Protect finished surfaces from soiling and damage during handling and installation with a protective covering.

1.07 JOB CONDITIONS

- A. Environmental Requirements: Do not install casework until permanent HVAC systems are operating and temperature and humidity have been stabilized for at least 1 week.
 - 1. Manufacturer/Supplier shall advise Contractor of temperature and humidity requirements for architectural casework installation areas.
 - 2. After installation, control temperature and humidity to maintain relative humidity between 25 percent and 55 percent.
- B. Conditions: Do not install casework until interior concrete work, masonry, plastering and other wet operations are complete.

1.08 WARRANTY

- A. All materials and workmanship covered by this section will carry a five (5) year warranty from date of acceptance, and a ten (10) year warranty on the instrument shelf materials and workmanship.

PART 2 – PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS:

- A. Manufacturer:
 - 1. TMI Systems Design Corporation.
 - a. Drawings and specifications are based on manufacturer's literature from TMI SYSTEMS DESIGN CORPORATION, 50 South Third Avenue West, Dickinson, North Dakota, 58601, Phone: 800-456-6716.
 - b. Other manufacturers shall comply with the minimum levels of material and detailing indicated on the drawings or as specified.

2.02 MATERIALS

- A. Core Materials:
 - 1. Particleboard up to 7/8 inch thick: Industrial Grade average 47-pound density particleboard, ANSI A 208.1-2009, M-2 requirements.
 - 2. Particleboard 1 inch thick and thicker: Industrial Grade average 45-pound density particle-board, ANSI A 208.1-2009, M-2 requirements.
- B. Decorative Laminates: GREENGAURD Indoor Air Quality Certified
 - 1. High-pressure decorative laminate VGS (.028), NEMA Test LD 3-2005.
 - 2. High-pressure cabinet liner CLS (.020), NEMA Test LD 3-2005.
 - 3. Thermally fused melamine laminate, NEMA Test LD 3-2005, color matched with White.
 - 4. Laminate Adhesive: Water based low Volatile Organic Compound (VOC), non-toxic, PVA adhesive.
- C. Laminate Color Selection: Maximum 1 color per unit face and 1 color per project. (See Color Selection in section 3.05).
- D. Edging Materials:
 - 1. 3mm PVC banding, machine applied and machine profiled to 1/8 inch radius.

2.03 CABINET HARDWARE

- A. Hinges:
 - 1. Five knuckle, epoxy powder coated, institutional grade, 2-3/4 inch overlay type with hospital tip. 0.095 inch thick. ANSI-BHMA standard A156.9, Grade 1.
- B. Padlocks: Not Included
- C. Coat Rods: 1 inch diameter, 14-gauge chrome plated steel installed in captive mounting hardware.

2.04 FABRICATION:

- A. Fabricate casework to dimensions, profiles, and details shown.
- B. All casework panel components must go through a supplemental sizing process after cutting, producing a panel precisely finished in size and squareness to within 0.010 inches, ensuring strict dimensional quality and structural integrity in the final fabricated product.
- C. All music instrument storage casework shall be assembled and finished at the factory utilizing a case clamp to ensure tight joints and a square box. Field assembled casework will not be accepted.
 - 1. Any units too large to fit through a standard 36 inch wide doorway may be shipped knocked down and assembled in the field.

- D. Cabinet Body Construction:
1. Balanced construction of all laminated panels is mandatory. Unfinished core stock surfaces, even on concealed surfaces (excluding edges), are not permitted.
 2. Tops and bottoms are glued and doweled to cabinet sides and internal cabinet components such as fixed horizontals and vertical dividers. Exposed assembly hardware and through-bolt assembly construction methods will not be accepted.
 - a. Minimum of 6 dowels each joint for 29 inch deep cabinets.
 - b. Minimum of 8 dowels each joint for 39 inch deep cabinets.
 - c. Tops, bottoms and sides of all cabinets are particleboard core.
 3. Cabinet backs:
 - a. 1/2 inch thick particleboard core.
 - b. Finished with thermally fused melamine laminate.
 4. All units have an individual factory-applied base, constructed of 3/4 inch thick plywood. Base is 102mm (nominal 4 inch) high unless otherwise indicated on the drawings.
 5. Exposed and semi exposed edges.
 - a. Heavy duty 3mm PVC banding, machine applied and machine profiled to 1/8 inch radius.
 6. Instrument Shelf and Cabinet Bottom panels:
 - a. Core: 1 inch thick particleboard.
 - b. Front Edge: Heavy duty 3mm PVC banding, machine applied and machine profiled to 1/8 inch radius. Black color.
 - c. Top Surface: Molded flat stock heavy-duty polyethylene with textured abrasion-resistant finish permanently bonded to shelf. Black color.
 - d. Bottom Surface: Thermally fused melamine laminate.
 - e. All shelves to be permanently doweled to cabinet sides and vertical dividers. Removable or adjustable shelves and shelves attached with mechanical fasteners will not be accepted.
 7. Interior finish, units with Open Interiors:
 - a. Top, bottom, sides and vertical members finished with thermally fused melamine laminate.
 8. Interior finish, units with Closed Interiors:
 - a. Top, bottom, sides and vertical members finished with thermally fused melamine laminate.
 9. Exposed ends:
 - a. Faced with VGS high-pressure decorative laminate.
 - b. Balanced with high-pressure liner CLS interior surface.
- E. Solid Doors:
1. Core: 3/4 inch thick particleboard.
 2. Provide double doors in openings in excess of 24 inches wide.
 3. Finishing:
 - a. Exterior: VGS High-pressure decorative laminate.
 - b. Interior: High-pressure cabinet liner CLS.
 4. Door edges: 3mm PVC, external edges and outside corners machine profiled to 1/8 inch radius.
 5. Provide 2 hinges for each door up to 48 inches in height and 3 hinges for each door over 48 inches in height.
 6. Padlock eyelets and label holder included. Epoxy powder coated.
- F. Wire Grille Doors:
1. Door Frame: 5/16 inch diameter heavy gauge metal rod welded to 3/16 inch diameter verticals with beveled end to produce a clean, finished look. Epoxy powder coated.
 2. Hinges: 2-3/4 inch five knuckle hinges welded to door, made of 0.095 inch thick steel with hospital safety tip. Epoxy powder coated.
 3. Provide 2 hinges for each door up to 39 inches in height and 3 hinges for each door over 39 inches in height.
 4. Padlock eyelets and label holder included and welded to door. Epoxy powder coated.
- G. Stay Close Door Latch (Where shown on drawings.)
1. Latch and door strike to be 13 gauge steel, finished in bright chrome.
 2. Latch to have contour allowing it to travel over the hasp into a positive locked position.
 3. Available with Solid Doors or Wire Grille Doors.
 4. Door may be locked with a padlock for added security. Padlocks not included.

PART 3- EXECUTION

3.01 INSPECTION:

- A. The casework contractor must examine the job site and the conditions under which the work under this section is to be performed, and notify the building owner in writing of unsatisfactory conditions. Do not proceed with work under this Section until satisfactory conditions have been corrected in a manner acceptable to the installer.

3.02 INSTALLATION:

- A. Condition casework to average prevailing humidity conditions in installation areas prior to installing.
- B. Erect casework, plumb, level, true and straight with no distortions. Shim as required. Where laminate clad casework abuts other finished work, scribe and cut to accurate fit.
- C. Adjust casework and hardware so that doors operate smoothly without warp or bind.
- D. Repair minor damage per plastic laminate manufacturer's recommendations.

3.03 CLEANING:

- A. Remove and dispose of all packing materials and related construction debris.
- B. Clean cabinets inside and out. Wipe off fingerprints, pencil marks, and surface soil etc., in preparation for final cleaning by the building owner.

3.04 COLOR SELECTION

- A. Laminate Color Selection:
 - 1. Select from the full range of Wilsonart® and Formica® stock color charts for cabinet faces and exposed ends. Thermally fused melamine laminate matched to White color.
- B. Wire Grille Door and Hinge Color Selection:
 - 1. Select from your choice of stock epoxy powder coat colors matched to White, Beige, Gray, Black and Chrome.
- C. 3mm PVC Edgebanding Color Selection (not including shelf edgebanding):
 - 1. Select from your choice of 3mm PVC from the TMI Vendor Stock PVC Program, including 101 pattern, woodgrain and solid colors matched to Wilsonart® and Formica® laminates.

*For complete and current Laminate and PVC color availability charts please refer to:
<http://www.tmisystems.com/specifying/crossreference.asp>

29 December 2009
END OF SECTION