

SECTION 12 32 16

MUSICAL INSTRUMENT STORAGE CABINETS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Musical instrument storage cabinets.

1.3 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 06 10 00 - Rough-in Carpentry - Blocking
- B. Section 06 41 16 – Custom Millwork
- C. Section 09 65 00 – Resilient Floor
- D. Section 12 30 00 – Manufactured Casework

1.4 REFERENCES

- A. American Laminators Assoc. Performance Standard ALA 1985.
- B. ANSI - BHMA Standard A156.9 Grade 1.

1.5 SYSTEM DESCRIPTION

- A. Design Requirements:
 - 1. Music instrument storage cabinets will be specifically designed and engineered for the intended use and will meet the minimum performance characteristics specified herein. Music instrument storage units will be chip and abrasion resistant under normal usage and will protect instruments and cases from damage under normal use.
 - 2. Provide one-piece high molecular polyethylene instrument storage shelving with integral ventilation grooves, designed and engineered to withstand continuous use without surface or front edge breakdown.
 - 3. Individual instrument storage cabinets will be manufactured with thermo-fused polyester laminated panels, finish both faces all components. All end panels shall be factory jigged and drilled to accept unit-to-unit through-bolting: no conventional wood screws attaching units side-to-side will be permitted. Each instrument storage cabinet

will be furnished with an integral base and four steel levelers accessible from within the unit but concealed in final installation.

- B. Manufacturer to provide documentation of following minimum performance requirements:
 - 1. Molded plastic instrument storage shelf shall have a static load capacity of over 1,000 lbs.
 - 2. Full height solid hinged door for instrument storage units shall support a minimum dynamic live load of 315 lbs., applied at outer edge.
 - 3. Instrument storage shelf system shall have a factory warranty of ten years against defects in material and/or workmanship.

1.6 WORK NOT INCLUDED

- A. Architectural woodwork and laminate clad educational casework.
- B. Rubber base.
- C. Padlocks, locks master-keyed to room doors and other special locks.
- D. Blocking within walls.

1.7 SUBMITTALS

- A. Submit the following in accordance with Conditions of Contract and Division 01 Specification Sections.
- B. Product data for each type of musical instrument storage cabinet specified.
- C. Shop drawings for storage cabinets showing plan layout, elevations, ends, cross-sections and showing components in assembly with adjacent materials and products.
- D. Samples for verification purposes of each type of specified finish material. Provide in minimum 6-inch by 6-inch sizes. Samples will be reviewed by Architect-Engineer for color, texture, and pattern only. Compliance with other specified requirements is exclusive responsibility of Contractor.
- E. Quality Control Submittal: Manufacturer's installation instructions.
- F. Contract Closeout Submittals: Maintenance recommendations and warranty.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Pack and ship to avoid damage according to manufacturer's recommendations.
 - 1. Finish and assemble components in factory before shipment.
 - 2. Ship components in individual sealed, labeled cartons.
 - 3. Deliver components to room designated for installation.

- B. Do not accept or install damaged products at the site.
- C. Store products in heated indoor storage near point of installation. Retain protective packaging until installing.

1.9 PROJECT CONDITIONS

- A. Environmental Requirements: Do not install cabinets until all mortar, wet and dust producing work is accomplished.
- B. Field Measurements: Obtain required field measurements from the Contractor and indicate on shop drawings.

1.10 WARRANTY

- A. Provide manufacturer's written warranty that products not in accordance with requirements of Contract Documents within three years after commencement of warranties shall be corrected promptly after receipt of written notice from Owner. Cabinet shelf shall be warranted for ten years.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: Subject to compliance with requirements, provide music instrument storage cabinets and music storage system from one of the following:
 - 1. Wenger Corporation.
 - 2. LSI Corporation of America, Inc.; Series L-44.
- B. Basis-of-Design Product: Wenger Corporation; instrument storage cabinets.

2.2 MATERIALS, GENERAL

- A. Low-Emitting Materials: Fabricate manufactured wood casework, including countertops, with adhesives and composite wood products containing no urea formaldehyde.
- B. Low-Emitting Materials: Adhesives and composite wood products shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- C. Particleboard: ANSI A208.1, Grade M-2.
 - 1. Recycled Content: Not less than 10 percent pre-consumer recycled content.
- D. MDF: ANSI A208.2.
 - 1. Recycled Content: Not less than 10 percent pre-consumer recycled content.

E. Hardboard: AHA A135.4, Class 1 Tempered.

2.3 MATERIALS

A. Cabinet Wall Panels: 3/4-inch thick industrial (cabinet) grade particleboard, minimum 48 pcf with thermoset polyester (melamine not acceptable) laminate on both sides for totally finished construction. No backer sheets or unfinished surfaces may be used on unexposed sides.

1. Color: Architect to select from manufacturer's standard color selections

B. Cabinet Shelving:

1. Cabinets Up to 27 Inches Wide: One-piece high molecular blow-molded polyethylene with 1-3/8 inch radius front edge. Mount to cabinet walls with one-piece molded rigid ST nylon clip. Shelf shall be replaceable without damage to adjacent surfaces. Doweled shelves will not be permitted.

2. Cabinets Over 27 Inches Side: One-piece high molecular formed polyethylene with radius front edge and 3/16-inch wall thickness, ribbed for structural integrity, supported by four structural tubular members 1-1/2 inches x 1 inch x 16 gauge wall thickness with 14 gage welded end plates.

C. Doors: Wenger's standard waterfall grille door.

1. Hinges: Manufacturer's standard.

2. Locking Slide-Bolt: All doors shall be factory provided with locking slide-bolt designed for padlocks, with formed steel strike plate through-bolt connected to cabinet end panel, 12 gage steel. Provide clear plastic label holder for identification card insert.

3. Color: Wenger's standard black finish.

D. Edging: Heat bonded 3mm beveled PVC edge-banding, machine applied using hot-melt adhesives, edges and corners machine profiled for safety, integral color.

1. PVC Color: Match panel color.

E. Finish Hardware:

1. Joinery Hardware: Two inch, 1/4-20 panel connectors with 15mm head diameter, and steel thread inserts shall be utilized to join desired cabinets side-to-side; use factory jigged and drilled joinery holes.

a. Color: Architect to select from manufacturer's standard color selections.

2. Cabinet Levelers: Structural levelers each cabinet, accessible from within the unit, concealed in complete installation; glides with minimum 3/8-inch diameter threaded rod mounted in steel corner brackets. Provide minimum four glides per cabinet, six glides for cabinets with divider panels.

F. Cabinet Back Panel:

1. Standard cabinet back to be 1/4-inch thick prefinished hardboard.

1. Color: Architect to select from manufacturer's standard color selections

2.4 MANUFACTURED UNITS

- A. Fabricate and package all components in the factory and ship fully assembled or ready to assemble.

2.5 OPTIONS REQUIRED

- A. Vertical Closure Kit. Provide visual closure between wall and cabinet. Construct closure of 3/4-inch thick thermoset polyester composite wood to match cabinet side panels.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Installation shall be in accordance with manufacturer's instructions.

3.2 ADJUSTING

- A. Adjust all hardware for smooth operation.

3.3 CLEANING

- A. Clean all surfaces of soil.
- B. Remove all packaging materials and construction debris.

END OF SECTION