

SECTION 105116 - PLASTIC LAMINATE CLAD LOCKERS

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. Section Includes:
 - 1. Plastic laminate clad lockers.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for lockers.
- B. Shop Drawings: For plastic laminate clad lockers. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Show details full size.
 - 2. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
 - 3. Show locations and sizes of cutouts and holes for items installed in lockers.
 - 4. Show locker fillers, trim, base, sloping tops, and accessories.
 - 5. Show locker numbering sequence.
- C. Samples for Initial Selection: For the following:
 - 1. Factory-applied finishes.
 - 2. High-pressure decorative laminates.
- D. Samples for Verification: For the following:
 - 1. Plastic-laminate-clad panels, not less than 8 by 10 inches (200 by 250 mm), for each type, color, pattern, and surface finish.
 - 2. Corner pieces of locker front frame joints between stiles and rail, as well as exposed end pieces, not less than 18 inches wide by 18 inches high by 6 inches deep (450 mm wide by 450 mm high by 150 mm deep).
 - 3. Exposed cabinet hardware and accessories, one unit for each type and finish.
- E. Qualification Data: For qualified Installer.

- F. Maintenance Data: For adjusting, repairing, and replacing locker doors and latching mechanisms to include in maintenance manuals.
- G. Warranty: Sample of special warranty.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Source Limitations: Obtain lockers, locker benches, and accessories from single source from single manufacturer.
- C. Regulatory Requirements: Where lockers and benches are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities." and ICC/ANSI A117.1.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver lockers until painting and similar operations that could damage lockers have been completed in installation areas. If lockers must be stored in other-than-installation areas, store only in areas where environmental conditions are same as that in final installation location and comply with requirements specified in "Project Conditions" Article.

1.6 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of concealed framing, blocking, and reinforcements that support lockers by field measurements before fabrication.

1.7 COORDINATION

- A. Coordinate sizes and locations of concealed support bases.
- B. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of work specified in other Sections to ensure that lockers can be supported and installed as indicated.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of lockers that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
 - a. Structural failures.
 - b. Faulty operation of locks or hardware.
 - c. Deterioration of panels or finishes, and other materials beyond normal use.
2. Warranty Period: Three years from date of Substantial Completion.

1.9 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Full-size locker doors, complete with specified door hardware. Furnish two (2) doors of each type and color installed.
 2. Full-size units of the following locker hardware items for each type and finish installed, furnish ten (10) of each:
 - a. Hinges.
 - b. Pulls.
 - c. Hooks.
 - d. Number Plates.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Particleboard: ANSA A208.1 grade 1-M-2, 45.
- B. High-Pressure Decorative Laminate: NEMA LD 3, grades as follows:
 1. Horizontal Surfaces: Grade HGS.
 2. Postformed Surfaces: Grade HGP.
 3. Vertical Surfaces: Grade HGS.
- C. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln dried to less than 15 percent moisture content.
- D. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage.
 1. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls and elsewhere.
 2. Provide toothed-steel or lead-expansion sleeves for drilled-in-place anchors.

2.2 FIRE-RETARDANT-TREATED MATERIALS

- A. General: Use materials impregnated with fire-retardant chemical formulations indicated by a pressure process or other means acceptable to authorities having jurisdiction to produce products with fire-test-response characteristics specified.
 - 1. Do not use treated material that does not comply with requirements of referenced woodworking standard or material that is warped, discolored, or otherwise defective.
 - 2. Use fire-retardant-treatment formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants in solution to distinguish treated material from untreated material.

2.3 LOCKER HARDWARE

- A. General: Provide manufacturer's standard locker hardware complying with the requirements in this Section.
- B. Hinges: Heavy duty, Euro-concealed, 6 way adjustable, 125 degree opening, self-closing, nickel plated.
- C. Accessible Handle: Metal, fixed, graspable lever handle and rose trim; surface mounted.
- D. Exposed Hardware Finishes: Nickel plated unless otherwise indicated.

2.4 DOOR LOCKS

- A. General: Fabricate lockers to receive locking devices. Provide one locking device for each locker door unless otherwise indicated.
- B. Padlock Hasp: Recessed mounted through-bolted with 19mm (3/4 inch) diameter zinc plated T-nuts and machine screws; case hardened and cadmium plated steel.

2.5 PLASTIC-LAMINATE-FACED "L" or "Z"-LOCKERS

- A. Construction Style: Flush overlay, two tier locker.
- B. Locker Body: Fabricated from fire-retardant, formaldehyde-free, 48-lb industrial grade particleboard-core panels covered on both sides with thermoset decorative overlay.
 - 1. Side Panels: 5/8 inch (16 mm) thick minimum.
 - 2. Back Panel: 1/4 inch (6 mm) thick minimum.
 - 3. Top Panel: 5/8 inch (16 mm) thick minimum.
 - 4. Bottom Panel: 5/8 inch (16 mm) thick minimum.
 - 5. Shelves: 3/4 inch (19 mm) thick minimum.

- C. Plastic-Laminate-Faced Doors: High-pressure decorative laminate, Grade VGS, over both sides of fire-retardant-particleboard core.
 - 1. Thickness: ~~3/4 inch~~ (19 mm) thick minimum.
- D. End Panels: Match style, material, construction, and finish of plastic-laminate-faced doors.
 - 1. Thickness: $\frac{3}{4}$ inch (19 mm) thick minimum.
- E. Corners and Filler Panels: ~~3/4-inch-~~ (19-mm-) thick panels minimum. Match style, material, construction, and finish of plastic-laminate-faced doors.
- F. Plastic-Laminate Colors, Patterns, and Finishes:
 - 1. As indicated by manufacturer's designations.
 - 2. As selected by Architect from plastic-laminate manufacturer's full range of solid colors or patterns with core same color as surface.
- G. Size: 12"W x 18"D x 72"H (custom dimensions).
- H. Basis-of-Design Product: Subject to compliance with requirements, provide Ideal Products, Inc.; Ideal 2000, Model L, Executive two tier locker or comparable product.

2.6 LOCKER ACCESSORIES

- A. Hooks: Manufacturer's standard, ball-pointed aluminum or steel; chrome finished. Attach hooks with at least two fasteners.
 - 1. Provide one double-prong ceiling hook and two single-prong wall hooks for each compartment of lockers.
- B. Number Plates: ~~1-1/2-inch-~~ (38-mm-) diameter, etched, embossed, or stamped, satin chrome plates with black numbers and letters at least ~~1/2 inch~~ (13 mm) high. Coordinate number sequence with Contracting Officer's Representative.
- C. Continuous Base: Prefabricated from hardwood and 19 mm (~~3/4 inch~~) plastic-laminate-faced particleboard panels. Base shall be in lengths as long as practical, without visible fasteners at splice locations. Provide fasteners, supports, and closures, as required by manufacturer. Height of base is 102mm (4 inches) Depth of base is 25mm (1 inch) less than depth of locker.
- D. Continuously Sloping Tops: Plastic-laminate-faced, ~~3/4-inch-~~ (19-mm-) thick panel that matches door faces for installation over lockers with separate flat tops. Fabricate tops in lengths as long as practical, without visible fasteners at splice locations. Provide fasteners, supports, and closures, as follows:
 - 1. Closures: Hipped-end type.
 - 2. Sloping-top corner fillers, mitered.

- E. Venting: 32mm system through rear panel.

2.7 FABRICATION

- A. Fabricate each locker, an individual door and frame, an individual top, a bottom, and a back, and with common intermediate uprights separating compartments.
 - 1. Fabricate lockers to dimensions, profiles, and details indicated.
- B. Fabricate components square, rigid, without warp, and with finished faces flat and free of scratches and chips. Accurately machine components for attachments in factory. Make joints tight and true.
- C. Accessible Lockers: Fabricate as follows:
 - 1. Locate bottom shelf no lower than 15 inches (381 mm) above the floor.
 - 2. Where hooks, coat rods, or additional shelves are provided, locate no higher than 48 inches (1219 mm) above the floor.
- D. Complete fabrication, including assembly, finishing, and hardware application, to maximum extent possible, before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls, floors, and support bases, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting locker installation.
- B. Verify that furring is attached to concrete and masonry walls that are to receive lockers.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Condition lockers to average prevailing humidity conditions in installation areas before installation.
- B. Before installing lockers, examine factory-fabricated work for completeness and complete work as required, including removal of packing.

3.3 INSTALLATION

- A. Assemble knocked-down lockers with manufacturer's standard fasteners, with no exposed fasteners on face frames.
- B. Install lockers level, plumb, and true; use concealed shims.
- C. Connect groups of lockers together with manufacturer's standard fasteners, through predrilled holes, with no exposed fasteners on face frames. Fit lockers accurately together to form flush, tight, hairline joints.
- D. Install lockers without distortion so doors fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings, providing unencumbered operation. Complete installation of hardware and accessory items as indicated.
 - 1. Installation Tolerance: No more than 1/8 inch in 96-inch (3 mm in 2400-mm) sag, bow, or other variation from a straight line. Shim as required with concealed shims.
- E. Scribe and cut corner and filler panels to fit adjoining work using fasteners concealed where practical. Repair damaged finish at cuts.
- F. Anchor lockers securely to wall.
- G. Attach sloping-top units to lockers, with end panels covering exposed ends.
- H. Install number plates after lockers are in place.
 - 1. Attach number plate on each locker door, near top, centered, with at least two screws with finish matching number plate.
- I. Anchor locker benches to floors.
 - 1. Uniformly space pedestals; securely fasten pedestals to bench top and anchor to floor.

3.4 ADJUSTING, CLEANING, AND PROTECTING

- A. Clean, lubricate, and adjust hardware. Adjust doors to operate easily without binding. Verify that integral locking devices operate properly.
- B. Protect lockers from damage, abuse, dust, dirt, stain, or paint. Do not permit use during construction.
- C. Touch up marred finishes, or replace lockers that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer.

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