

## SECTION 10 51 23 – PLASTIC-LAMINATE-CLAD LOCKERS

### PART 1 – GENERAL

#### 1.1 SUMMARY

- A. Section includes plastic-laminate-clad lockers of custom design.
- B. Related Requirements:
  - 1. Section 06 10 00 – ROUGH CARPENTRY for wood blocking required for anchoring lockers.

#### 1.2 DEFINITIONS

- A. Definitions in the AWI’s “Architectural Woodwork Standards” apply to the work of this Section.

#### 1.3 SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work. Show fabrication details, including types and locations of hardware. Show installation details, including field joints and filler panels.
  - 1. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
  - 2. Show location and sizes of cutouts and holes for power, data, and other items installed in lockers.
- C. Samples for Verification: For each type of product.
  - 1. Plastic laminates for each type, color, pattern, and surface finish.

#### 1.4 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop with not less than 5 years experience, 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, as well as sufficient production capacity to produce required units without delaying the work.
- B. Installer Qualifications: Arrange for locker installation by a firm that can demonstrate successful experience in installing items similar in type and quality to those required for this project.
- C. 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.
- D. Manufacturer Warranty: Limited Lifetime Warranty to the original purchaser that products will be free from defects in material and workmanship for as long as the original purchaser owns such products effective from the date of purchase.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver lockers only after painting, utility roughing-in, and similar operations that could damage, soil, or deteriorate lockers have been completed in installation areas. If lockers must be stored in other than installation areas, store only in areas where environmental conditions meet requirements specified in "Project Conditions" Article.
- B. Keep finished surfaces covered with protective covering during handling and installation.

#### 1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install lockers until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.
- B. Field Measurements: Where locker is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Provide allowance for trimming at site. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
  - 1. Locate concealed framing, blocking, and reinforcements that support lockers by field measurements before being enclosed, and indicate measurements on Shop Drawings.
- C. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating lockers without field measurements. Provide allowance for trimming at site. Coordinate construction to ensure that actual dimensions correspond to established dimensions.

## 1.7 COORDINATION

- A. 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.

## PART 2 – PRODUCTS

### 2.1 MANUFACTURERS

- A. Source Limitations: Obtain plastic-laminate-clad lockers from single manufacturer.
- B. Provide lockers manufactured by Hamilton Casework Solutions [www.hamiltoncs.com](http://www.hamiltoncs.com).
- C. Substitution requests in accordance with Section 01 60 00, and subject to compliance with all requirements.

### 2.2 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. Particleboard: ANSI A208.1, Grade M-2, 40 to 50 pcf (640 to 800 kg/cu m) substrate.
- C. MDF: ANSI A208.2, Grade 130.
- D. High-Pressure Decorative Laminate: NEMA LD 3, provided by one of the following (not limited to):
  - 1. Wilsonart: [www.wilsonart.com](http://www.wilsonart.com).
  - 2. Formica: [www.formica.com](http://www.formica.com).
  - 3. Nevamar: [www.panolam.com/nevamar](http://www.panolam.com/nevamar).
  - 4. Pionite: [www.panolam.com/pionite](http://www.panolam.com/pionite).
  - 5. Abet-Laminati: [www.abetlaminati.com](http://www.abetlaminati.com)
- E. Edgebanding for High-Pressure Decorative Laminate: 1mm PVC edgebanding.
- F. Thermoset Decorative Panels: Particleboard or medium-density fiberboard finished both sides with thermally fused, melamine-impregnated decorative paper complying with requirements of NEMA LD 3, Grade VGL, for Test Methods 3.3, 3.4, 3.6, 3.8, and 3.10.
- G. Edgebanding for Thermoset Decorative Panels: 1mm PVC edgebanding.

### 2.3 COLORS AND FINISHES

- A. Thermoset Decorative Panel Colors, Patterns, and Finishes: As indicated on drawings, or if not indicated, as selected by Architect from manufacturer's full range.
- B. High-Pressure Decorative Laminate Colors, Patterns, and Finishes: As indicated on drawings, or if not indicated, as selected by Architect from manufacturer's full range.
- C. PVC Edgebanding Color: Matching adjacent surface, or as indicated on drawings. If not indicated, as selected by Architect from manufacturer's full range.

#### 2.4 HARDWARE

- A. Provide manufacturer's standard, complying with ANSI/BHMA A156.9.
- B. Hinges: Grass America full overlay self-closing 110 degree concealed.
- C. Coat Hook: Where indicated on drawings, (2) per opening, single prong metal hook, chrome plated.
- D. Coat Rod: Where indicated on drawings, 3/4-inch metal hanging rod with end supports, chrome plated.
- E. Lock: As specified on drawings with manufacturer's warranty.

#### 2.5 MISCELLANEOUS MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln dried to less than 15 percent moisture content.
- B. Screws: Select material, type, size, and finish required for each use. Comply with ASME B18.6.1 for applicable requirements.
  - 1. For metal framing supports, provide screws as recommended by metal-framing manufacturer.
- C. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls and elsewhere as required for corrosion resistance. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.
- D. Adhesives, General: Do not use adhesives that contain urea formaldehyde.
- E. Adhesives for Bonding Plastic Laminate: Contact cement.

#### 2.6 FABRICATION

- A. Plastic-Laminate-Clad Locker Construction: Per custom design as indicated on Shop Drawings, or if not indicated, not less than the following:

1. Locker Sides, Back, Top and Bottom: ¾-inch industrial grade particleboard core with thermo-fused melamine one side, interior color white, 1mm white PVC edgebanding on exposed edges only
  2. Locker Doors: ¾-inch industrial grade particleboard core Thermoset Decorative Panel, interior and exterior door face color per specification, 1mm matching PVC edgebanding on all edges. Door configurations per Shop Drawings.
  3. Locker Shelves: ¾-inch industrial grade particle board core Thermoset Decorative Panel, double-sided white with matching 1mm PVC edgebanding on all edges
  4. Lockers shall be fabricated using wood doweled and glued, and pin and cam construction as indicated on Shop Drawings.
- B. Filler Strips: Provide as needed to close spaces between lockers and walls, ceilings, and indicated equipment. Fabricate from same material and with same finish as lockers.
- C. Bases: Separate plywood ladder base, dimensions as indicated on Shop Drawings.

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances, location of framing, and other conditions affecting performance of the Work.
- B. Verify installation of blocking and supports for wall mounted items and floors for compliance with specified tolerances.
- C. Verify rough-ins for mechanical and electrical services for sizes, locations, and adequacy.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Grade: Install woodwork to comply with requirements for the same grade specified in Part 2 for fabrication of type of woodwork involved.
- B. Install plumb, level, straight and true with no distortions. Use concealed shims. Where plastic faced casework abuts other finished work scribe and cut for accurate fit.
- C. Anchor casework securely in place with concealed fasteners, anchored into structural support members of wall construction. Comply with manufacturer's instructions for support of units. Attach all parts and accessories, closures, panels, aprons, etc. to basic units as detailed and as required. Install shelving.
- D. Adjust casework and hardware so that doors and drawers operate smoothly without warp or bind.
- E. Adjust joinery for uniform appearance.

### 3.3 CLEANING AND PROTECTION

- A. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match original factory finish, as approved by Architect.
- B. Execute all procedures and precautions necessary for protection of materials and installed plastic-laminate-faced lockers and from damage by the work of other trades until acceptance of the work by the Owner.

END OF SECTION 10 51 23