



## **SOLID PHENOLIC CASEWORK & CABINETY**

### **SECTION 06 41 16**

#### **PART 1 GENERAL**

##### **1.1 SECTION INCLUDES**

- A. Solid Phenolic Laboratory Casework and Cabinetry
- B. Solid Phenolic Composite Laboratory Work Surfaces

##### **1.2 RELATED SECTIONS**

- A. Section 06200 – Finish Carpentry: Finish trim associated with countertops and Work Surfaces.
- B. Section 10500 – Lockers: Locker systems installed beneath Work Surfaces.
- C. Section 10670 – Storage Shelving: Shelf Systems installed adjacent to or connecting with Work Surfaces.
- D. Section 15400 – Plumbing Fixtures and Equipment: Plumbing for sinks field inserted on countertops.

##### **1.3 SUBMITTALS**

- A. Submit under provisions of Section 01300
- B. Product Data: Manufacturers data sheets on each product.
- C. Shop Drawings: Submit shop drawings indicating room sizes, layout, cabinet dimensions, material thickness, size and location of fixture holes, utility, and sink cut outs.
- D. Selection Samples: For each finish product specified, one complete set of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, representing product, color, and patterns.
- F. Fabricator ISO 9001 Certification Certificate

##### **1.4 DELIVERY, STORAGE, AND HANDLING**

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of hazardous materials in accordance with requirements of local authorities having jurisdiction.

##### **1.5 PROJECT CONDITIONS**

Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

##### **1.6 WARRANTY**

At project closeout, provide to the owner representative an executed copy of the selected warranty period (1, 5, 10, 15, 20) year(s) based on type of phenolic selected.

Fabricator must be ISO 9001 certified.

## **PART 2 PRODUCTS**

### **2.1 Manufacturers**

- A. Drawings and specifications are based on casework fabricated using solid phenolic panels by one of the following manufacturers:
1. Richlite (20 Year product Warranty)
  2. ABET Laminati (20 Year Product Warranty)
  3. Paperstone (15 Year Product Warranty)
  4. Trespa (10 year Product Warranty)
  5. ARPA (10 Year Product Warranty)
  6. Fiberresin (1 Year Product Warranty)
  7. Pionite (1 Year Product Warranty)
  8. Formica (1 Year Warranty)
  9. Wilsonart (1 Year Warranty)
  10. Nevamar (1 Year Warranty)

### **2.2 CASEWORK AND CABINETS**

- A. Color: To be selected by architect
- B. Doors: ½" (13mm) thick solid phenolic composite material.
- C. Edges: Machined polished and free from tooling imperfections.
- D. Cabinet Bodies:
1. Exposed edges: Straight profile; eased edges to remove sharpness; machine polished and free from tooling imperfections.
  2. Cabinet Sides and Bottoms: ½" inch (13mm) thickness
  3. Door and Drawer Heads: ½" inch (13mm) thickness
  4. Horizontal Rail Supports: ½" inch (13mm) thickness
  5. Cabinet Backs: ¼" inch (6mm) thickness
  6. Wall Cabinet Backs: ½" inch (13mm) thickness
  7. Cabinet Shelves: ½" inch (13mm) thickness
  8. Intermediate Stretchers: ½" inch (13mm) thickness
  9. Security Panels: ¼" inch (6mm) thickness
  10. Drawer Box: ½" inch (13mm) thickness
  11. Top Stretcher: ½" (13mm) thickness

### **2.3 CABINET HARDWARE**

- A. Hinges: Hinges to accommodate ½" (13mm) door thickness.  
Meets or exceeds ANSI/BHMA A156.9-2003 load and cycle test.
11. One pair per door to 48 inch (1219mm) height.
  12. One and one half pair per door 48 (1219mm) through 72 inch (1829mm) height
  13. Two pair per door over 72 inches (1829mm) height.
- B. Pulls to be 304 stainless steel satin 4 inch (127mm) wire pull.
1. Drawers less than 24 inches (610mm) in width to receive one pull
  2. Drawers over 24 inches (610mm) in width to receive two pulls

3. Doors receive one pull

- C. Adjustable shelf supports: Shelf clips to be nickel-plated ¼" (13mm) pin and flat support shelf.
- D. Locks: Lock feature for drawers or doors to be specified by architect.

2.4 ACCESSORIES

- A. Provide solid phenolic laboratory shelving as indicated on Contract Drawings for:
  - 1. Laboratory Shelving
  - 2. Pegboards (Drying Racks)
  - 3. Reagent Racks
  - 4. Window Sills
    - a. Material: PerMar Prestique Series Casework
    - b. Material: PerMar Engagement Series Counter Tops
    - c. Color: To be selected by architect

2.5 WORK SURFACE FABRICATION

- A. All exposed edges of tops to be machined edged to a smooth finish and have a choice of one of PerMar's five standard edges:
  - (1) Chamfer Edge
  - (2) Radius Edge
  - (3) Eased Edge
  - (4) Crescent Edge
  - (5) Bullnose Edge
- B. Form eased edges on all backsplashes and shelved and square edges at all joints.
- C. Seam Joinery:
  - 1. Tight joint fastening
  - 2. Butt joints
- D. Routed cutouts for drop-in epoxy sinks forming openings to mount minimum 3/8 inch (9mm) deep supporting flanges flush to the work surface.
- E. Routed cutouts for under-mounted sinks or machine polish to form smooth edged openings with the top edge radius of 1/8" (3mm). Finish bottom edge of sink opening smooth with the edge broken to prevent sharpness.
- F. Sink Corner cutout radius to be not less than ¼" inch (6mm).
- G. Provide drip groove where indicated.

2.6 CABINETS FABRICATION

- A. Each cabinet is complete, modular, and rigid, permitting relocation at any time.
- B. The door and drawer heads create a 1/8 inch (3mm) horizontal and vertical reveal.
- C. Mechanically fasten vertical and horizontal members. Exposed edges on cabinet components, doors and drawer heads to be machined polished black core and Enclose underside of toe space.
- D. Drawer and cupboard units:
- E. Framed glazed doors: nominal 1/8 or ¼ inch (6mm) thick tempered clear laminated safety glass with visible safety logo unless otherwise specified. Frame glazed doors to be removable for glass replacement utilizing a retainer clip.
- F. Base: Curb mounted base furnished by others.



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## **PART 3 EXECUTION**

### **3.1 CLEANING AND ADJUSTMENT**

- A. Clean all surfaces in accordance with manufacturer's instructions. Do not use abrasive cleaners.
- B. Adjust doors and locks for smooth operation without binding.
- C. Lubricate door hinges and locks per manufacturer's instructions.

### **3.2 PROTECTION**

- A. After installation, protect the work surfaces from damage. Keep free from paint, plaster, cement scratches, or any other destructive forces.