

SECTION 12 30 00

CASEWORK

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Shelving and cabinets.
 - 2. Plastic-laminate.
 - 3. Solid-surface-material countertops.

1.2 SUBMITTALS

- A. Product Data: For cabinets and countertop material.
- B. Shop Drawings: For cabinets and countertops. Include plans, elevations, details, and attachments to other work. Show materials, finishes, filler panels, hardware, edge and backsplash profiles, methods of joining countertops, and cutouts for plumbing fixtures.
- C. Samples: For each type of material exposed to view.

1.3 QUALITY ASSURANCE

- A. Quality Standards: Unless otherwise indicated, comply with the following standards:
 - 1. Solid Surfacing: Comply with standards of ISO Solid Surfacing Material Standard 19712.

1.4 WARRANTY

- A. Contractor shall furnish a written warranty for a period of two full years from the date of substantial completion.
- B. Manufacturer shall warrant to the owner that products shall be free from material defects for a period of ten years from date of purchase.

PART 2 - PRODUCTS

2.1 COUNTERTOP MATERIALS

- A. Solid-Surfacing Material: Homogeneous solid sheets of filled plastic resin complying with ISSFA-2.
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Avonite, Inc.
 - b. E.I. du Pont de Nemours and Company
 - c. Formica Corp
 - d. Nevamar Company, LLC
 - e. Swan Corporation (The)
 - f. Wilsonart International
 - g. Approved equal.
 - 3. Type: Provide Standard Type, unless Special Purpose Type is indicated.
 - 4. Integral Sink Bowls: Comply with ISSFA-2 and ANSI Z124.3, Type 5 or Type 6, without a precoated finish.
 - 5. Colors and Patterns: As selected by Architect from manufacturer's full range.
- B. Particleboard: ANSI A208.1, Grade M02.
- C. Plywood: Exterior softwood plywood complying with DOC PS 1, Grade C-C Plugged, touch sanded.

2.2 SOLID-SURFACING-MATERIAL COUNTERTOPS

- A. Configuration: Provide countertops with the following front and backsplash style:
 - 1. Front: Bevel.
 - 2. Integral Backsplash
- B. Countertops: ¾-inch (19mm) thick, solid-surfacing material with built-up edges.

2.3 CABINET

- A. Materials:
 - 1. Adhesives: Do not use adhesives that contain urea formaldehyde.
 - 2. Hardwood Lumber: Kiln dried to 7 percent moisture content.
 - 3. Softwood Lumber: Kiln dried to 10 percent moisture content.
 - 4. Hardwood Plywood: HPVA HP-1.
 - 5. Particleboard: ANSI A208.1, Grade M-2.
 - 6. Medium-Density Fiberboard: ANSI A208.2, Grade MD.

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

B. Exposed Materials:

1. Solid Wood: Clear hardwood lumber of species indicated, free of defects.
2. Plastic Laminate: Particleboard faced with high-pressure decorative laminate complying with NEMA LD 3, Grade VGS.
 - a. Colors, Textures, and Patterns: As selected by Architect from cabinet manufacturer's full range.
3. Thermoformed-Vinyl-Faced Panels: Medium-density fiberboard, milled to required shapes, with a thermoformed vinyl overlay applied in a vacuum or membrane press.
 - a. Color: As selected by Architect from cabinet manufacturer's full range.
4. PVC Edge Molding: Rigid PVC extrusions, through color with satin finish, 3 mm thick at doors and drawer fronts, and 1 mm thick elsewhere.
 - a. Color: As selected by Architect from cabinet manufacturer's full range.

C. Semi-exposed Materials: Unless otherwise indicated, provide the following:

1. Plastic Laminate: Particleboard faced with high-pressure decorative laminate complying with NEMA LD 3, Grade VGS.
 - a. Colors, Textures, and Patterns: As selected by Architect from cabinet manufacturer's full range.

D. Concealed Materials: Solid wood or plywood, of any hardwood or softwood species, with no defects affecting strength or utility; particleboard; medium-density fiberboard; or hardboard.

E. Plastic Laminate Casework:

1. Frameless construction.
2. Flush overlay.
3. Economy grade.

PART 3 - EXECUTION

3.1 FIELD VERIFICATION

- A. Verify the dimensions in the field prior to fabrication.

3.2 INSTALLATION

- A. Install cabinets with no variations in flushness of adjoining surfaces; use concealed shims. Where cabinets abut other finished work, scribe and cut for accurate fit. Provide filler strips, scribe strips, and moldings in finish to match cabinet face.
- B. Install cabinets without distortion so doors and drawers fit openings and are aligned. Complete installation of hardware and accessories as indicated.
- C. Fasten solid-surfacing-material countertops by screwing through corner blocks of base units into underside of countertop. Align adjacent surfaces, and form seams to comply with manufacturer's written instructions using adhesive in color to match countertop. Carefully dress joints smooth, remove surface scratches, and clean entire surface.
- D. Install casework level and plumb to a tolerance of 1/8 inch in 8 feet (3 mm in 2.4 m).

END OF SECTION