PART 0 DESIGN STANDARDS

0.01 GENERAL DESIGN GUIDELINES

A. Countertops may be specified with casework if appropriate in Division 12 specifications. If countertops are to be placed on millwork as well as casework, be sure a clear distinction is made in the specifications as to where countertops are specified and whether or not all countertops are to be provided by one supplier.

B. Types of countertops

1. General use: Standard plastic laminate
2. High school chemistry labs: Chemical resistant resin or solid surface
3. Middle school chemistry labs: Chemical resistant plastic laminate
4. High abuse areas (high abuse areas vary according to specific project needs): Scratch resistant plastic laminate
5. Restrooms: Solid surface
6. Exterior window sills shall not be plastic laminate - use solid cast plastic material.
7. Wall caps on half walls shall be plastic laminate.

C. Work surfaces without base cabinets shall be supported by continuous blocking in the partition or wall behind the work surface, along with a supporting 45 degree shelf angle screwed into and perpendicuar to the wall at a minimum of 30” o.c., or appropriate support legs at outside edge of surface.

D. Coordinate heights of countertops with ADA requirements.

E. Specify all accessory items such as grommets.

F. Radius corners are required in high traffic areas.

PART 1 GENERAL No standards

PART 2 PRODUCTS

2.01 MATERIALS

A. Particleboard core for countertops

1. Reprocessed wood and resin binder mat-formed material, ANSI A161.2 Grade 1-M-2 or better
2. Edge: square
3. Thickness: 1-¼“
4. Panel size as required to minimize field joints

B. Epoxy resin

1. Modified epoxy resin, monolitihic copolymer, fiber reinforced-cement, cast or molded with an eased edge
2. Color: Integral black
3. Thickness: 1”
4. Content: Countertops shall contain no asbestos materials.

C. Plastic laminate

1. Standard plastic laminate: 0.050” thick general purpose high-pressure laminate plastic surfacing material
2. Chemical-resistant plastic laminate: 0.040” thick horizontal postforming
3. Scratch-resistant plastic laminate

4. Finish: Matte textured.
5. Do not specify premium color laminates.
6. A maximum of five plastic laminate colors shall be used per school.

D. Solid surface

1. Solid cast plastic resin materials
2. Thickness: Minimum 1/2”

E. Cast plastic: Mineral-filled plastic resin conforming to applicable requirements for cultured marble

2.02 FABRICATION

A. Cutouts

1. Provide cutouts for equipment, grommets, plumbing and utilities. Inside corners of cutouts shall have 1/8” minimum radius, to avoid stress cracking.

PART 3 EXECUTION

3.01 INSTALLATION

A. Provide sealant at joints between countertops and adjacent materials, and at penetrations in countertops.

END OF SECTION 06201