Design Standard
Equipment

Purpose:

This design standard has the purpose of creating a consistent installation of equipment throughout the South San Francisco Unified School District thereby achieving a standard of aesthetic quality, maintenance and performance throughout all renovation and new building projects.

Design Standard:

Equipment

General Requirements

- Provide “Energy Star” rated equipment.
- New equipment is to be within 20% of EPA energy Star “best available” for the category.

Evacuation Chairs

- Provide evacuation chairs as follows: one evacuation chair per stair, whether the floor exits to grade or not. It is recommended that evacuation chairs be distributed so that an approximately equal number of chairs are located on each floor above grade. The architect shall propose locations to the District for approval. Each evacuation chair should be located outside and adjacent to the stair enclosure clearly visible within the corridor but without obstructing access to the stair or reducing the required exit width. Do not place evacuation chairs inside the stair enclosures as this may violate Fire Department requirements. Avoid building alcoves for placement of the chairs. Each chair comes with a storage cabinet that shall be anchored to the wall.
- Manufacturer and product: Garaventa Evacu-Trac CD7, or equal previously approved for use by DSA.

Kitchen Dishwashers

- Dishwashers shall be able to chemically sanitize dishes.
- Do not provide booster heaters for dishwashers.

Projection Screens

- Manually operated, metal encased, surface mounted with glass-beaded viewing surface (peak gain of 2.0 to 2.8, and half-gain angle of at least 15 degrees).

- Size: 72 x 72 inches. Mount so that white board is visible and front of classroom when screen pulled down.

Laboratory Fume Hoods

- Laboratory fume hoods are to meet or exceed Cal/OSHA requirements per section 8 CCR 5154.1.

- Provide ONLY ducted laboratory hoods exhausting air to the exterior of the building. Ducting shall be negatively pressurized inside the building envelope. Re-circulating or "ductless" (filter-equipped) hoods are NOT ALLOWED.

- Position laboratory hoods away from doors, operable windows, and other air sources that can create turbulence and/or contaminant re-entrainment from the hood.

Kilns

- Regardless as to whether fired by gas, electricity, or other means, kilns can emit potentially hazardous air contaminants including carbon monoxide, oxides of nitrogen, metal fumes, and halogen gases (chlorine and fluorine as examples).

- All kilns must be purchased with the manufacturer-designed mechanical (fan-powered) ventilation ("venting") kit. Care should be taken in preparing the order for the kiln as manufacturers may sell the venting kit as an optional added-cost accessory rather than as part of the basic kiln assembly.
    - Ventilation must be exhausted directly to the exterior of the building at a location away from foot traffic, play areas, windows, or building air intakes.
    - The exhaust system is to have a separate electrical circuit.

- Through the use of the venting kit, points where firing and combustion products may escape from the kiln's firing chamber and into the room must have air flowing into the firing chamber, unless the kiln itself is housed inside of an exhaust hood or ventilated enclosure. Such exhaust hoods or ventilated enclosures must have air flowing into them from the surrounding room in sufficient volume and velocities to capture firing and combustion products emitted from the kiln and prevent their escape into the room.

- During kiln operation fans in venting kits must be operated in strict accordance with the manufacturer's recommendations. Kilns housed in exhaust hoods or ventilated enclosures must be equipped with electrical interlocks to prevent the kiln from firing unless the fans are operating.
    - Tie the room heat detector into the shunt-trip beaker of the kiln.

- Pottery rooms need clay traps in sinks and storage for the work.

- Anchor kilns securely to their working surface.

Cafeteria Tables

- Basis of design: KI, Uniframe wheelchair accessible tables with bench seating. Tables to fold open in one fluid motion assisted by pneumatic cylinders.

- Specify solid core high density particleboard with black polyurethane edging chemically bonded to table.

- Color: Maple or to match existing.

Substitutions allowed?

- Yes, if performance and quality equivalency can be evidenced.

Associated Design Standards

- Cal/OSHA requirements per section 8 CCR 5154.1.

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