

**SECTION 22 42 16.16
COMMERCIAL SINKS**

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The specifications sections "General Conditions to the Construction Contract", "Special Conditions" and "Division 01 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

- A. Section Includes:
 - 1. Service sinks.
 - 2. Kitchen casework sinks.
 - 3. Manually operated sink faucets.
 - 4. Supply fittings.
 - 5. Waste fittings.
 - 6. Sink supports.
 - 7. Grout.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for sinks.
 - 2. Include rated capacities, operating characteristics and furnished specialties and accessories.

1.4 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Counter cutout templates for mounting of counter-mounted sinks.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For sinks and faucets to include in operation and maintenance manuals.
 - 1. In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following:
 - a. Servicing and adjustments for automatic faucets.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Faucet Washers and O-Rings: Equal to 1 of amount of each type and size installed.
 - 2. Faucet Cartridges and O-Rings: Equal to 1 of amount of each type and size installed.

PART 2 - PRODUCTS

2.1 SERVICE SINKS

- A. Service Sinks - Plastic Composite, Floor Mounted: (SS-#) Refer to the Plumbing Fixture Schedules on Drawings for additional information and specific fixture designations. The fixture schedule identifies the basis of design, product descriptions, make, models, details, components and accessories.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Fiat Products.
 - b. ProFlo; a Ferguson Enterprises, Inc. brand.
 - c. Zurn Industries, LLC.
 - d. Or equal as approved by the Professional.
 - 2. Source Limitations: Obtain sinks from single source from single manufacturer.
 - 3. Fixture:
 - a. Standard: CSA B45.5/IAPMO Z124.
 - b. Material: Molded polymer.
 - c. Nominal Size: 24 by 36 by 10 inches
 - d. Rim Guard: On front top surfaces.
 - e. Color: White.
 - f. Drain: Grid with NPS 3 outlet.
 - 4. Mounting: On floor and flush to wall.
 - 5. Faucet: Refer to "Manually Operated Sink Faucets".

2.2 KITCHEN CASEWORK SINKS

- A. Kitchen Casework / Countertop Sinks - Stainless Steel, Counter Mounted: (S-#) Refer to the Plumbing Fixture Schedules on Drawings for additional information and specific fixture designations. The fixture schedule identifies the basis of design, product descriptions, make, models, details, components and accessories.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Advance Tabco.
 - b. Elkay.
 - c. Just Manufacturing.
 - d. Or equal as approved by the Professional.

2. Source Limitations: Obtain sinks from single source from single manufacturer.
3. Fixture:
 - a. Standard: ASME A112.19.3/CSA B45.4.
 - b. Type: Stainless steel, self-rimming, sound-deadened unit.
 - c. Number of Compartments: One.
 - d. Material: 18 gauge, Type 304 stainless steel.
 - e. Compartment:
 - 1) Drain: Grid with NPS 2 tailpiece and twist drain.
 - 2) Drain Location: Near back of compartment.
 - 3) Depth: Standard.
4. Faucet(s): Manually Operated Sink Faucets
 - a. Number Required: One.
 - b. Mounting: On ledge.
5. Supply Fittings:
 - a. Standard: ASME A112.18.1/CSA B125.1.
 - b. Supplies: Chrome-plated brass compression stop with inlet connection matching water-supply piping type and size.
 - 1) Operation: Loose key.
 - 2) Risers: NPS 1/2, chrome-plated, soft-copper flexible tube.
6. Waste Fittings:
 - a. Standard: ASME A112.18.2/CSA B125.2.
 - b. Trap(s):
 - 1) Size: NPS 2.
 - 2) Material:
 - a) Chrome-plated, two-piece, cast-brass trap and ground-joint swivel elbow with 17-gauge brass tube to wall; and chrome-plated brass or steel wall flange.
7. Mounting: On counter with sealant.

2.3 MANUALLY OPERATED SINK FAUCETS

- A. Sink faucets intended to convey or dispense water for human consumption are to comply with the U.S. Safe Drinking Water Act (SDWA), with requirements of the Authority Having Jurisdiction (AHJ), and with NSF 61 and NSF 372, or be certified in compliance with NSF 61 and NSF 372 by an ANSI-accredited third-party certification body, in that the weighted average lead content at wetted surfaces is less than or equal to 0.25 percent.
- B. Commercial Sink Faucets (S-#) - Manual Type: Single-control mixing, Refer to the Plumbing Fixture Schedules on Drawings for additional information and specific fixture designations. The fixture schedule identifies the basis of design, product descriptions, make, models, details, components and accessories.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Chicago Faucets; Geberit Group.
 - b. T&S Brass and Bronze Works, Inc.
 - c. Zurn Industries, LLC.
 - d. Or equal as approved by the Professional.
 2. Source Limitations: Obtain sink faucets from single source from single manufacturer.
 3. Standard: ASME A112.18.1/CSA B125.1.
 4. General: Include hot- and cold-water indicators; coordinate faucet inlets with supplies and fixture hole punchings; coordinate outlet with spout and sink receptor.
 5. Body Type: Widespread.
 6. Body Material: Commercial, solid brass, or die-cast housing with brazed copper and brass waterway.
 7. Finish: Chrome plated or Polished chrome plate.
 8. Maximum Flow Rate: 1.5 gpm.
 9. Mounting Type: Deck, concealed.
 10. Valve Handle(s): Lever.
 11. Spout Type: Swing.
 12. Spout Outlet: Laminar flow.
- C. Commercial Service Sink Faucets (SS-#) - Manual Type: Refer to the Plumbing Fixture Schedules on Drawings for additional information and specific fixture designations. The fixture schedule identifies the basis of design, product descriptions, make, models, details, components and accessories..
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Chicago Faucets; Geberit Group.
 - b. T&S Brass and Bronze Works, Inc.
 - c. Zurn Industries, LLC.
 - d. Or equal as approved by the Professional.
 2. Source Limitations: Obtain sink faucets from single source from single manufacturer.
 3. Description: Wall/back mounted, brass body, with integral service stops, checks, spout with bucket/pail hook, 3/4-inch hose thread end, integral vacuum breaker, inlets 8 inches o.c., and two-handle mixing.
 4. Faucet:
 - a. Standards:
 - 1) ASME A112.18.1/CSA B125.1.
 - 2) NSF 61 and NSF 372.
 - 3) ICC A117.1.
 - 4) ASSE 1001 (VB).
 - b. Finish: Polished chrome plated.
 - c. Handles: Lever.
 - d. Cartridges: Ceramic.
 - e. Brace: Adjustable top brace.

2.4 SUPPLY FITTINGS

- A. NSF Standard: Comply with NSF 61 and NSF 372 for supply-fitting materials that will be in contact with potable water.
- B. Standard: ASME A112.18.1/CSA B125.1.
- C. Supply Piping: Chrome-plated brass pipe or chrome-plated copper tube matching water-supply piping size. Include chrome-plated brass or stainless steel wall flange.
- D. Supply Stops: Chrome-plated brass, one-quarter-turn, ball-type or compression valve with inlet connection matching supply piping.
- E. Operation: Loose key.
- F. Risers:
 - 1. NPS 1/2.
 - 2. Chrome-plated, soft-copper flexible tube.

2.5 WASTE FITTINGS

- A. Standard: ASME A112.18.2/CSA B125.2.
- B. Drain: Grid type with NPS 1-1/2 offset and straight tailpiece.
- C. Trap:
 - 1. Size: NPS 1-1/2.
 - 2. Material:
 - a. Chrome-plated, two-piece, cast-brass trap and ground-joint swivel elbow with 17-gauge brass tube to wall; and chrome-plated brass or steel wall flange.

2.6 SINK SUPPORTS

- A. Sink Carrier:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Jay R. Smith Mfg Co; a division of Morris Group International.
 - b. Josam Company.
 - c. MIFAB, Inc.
 - d. Zurn Industries, LLC.
 - e. Or equal as approved by the Professional.
 - 2. Source Limitations: Obtain sink supports from single source from single manufacturer.
 - 3. Standard: ASME A112.6.1M.

2.7 GROUT

- A. Standard: ASTM C1107/C1107M, Grade B, post-hardening and volume-adjusting, dry, hydraulic-cement grout.
- B. Characteristics: Non-shrink; recommended for interior and exterior applications.
- C. Design Mix: 5000 psi, 28-day compressive strength.
- D. Packaging: Premixed and factory packaged.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine roughing-in for water-supply piping and sanitary drainage and vent piping systems to verify actual locations of piping connections before sink installation.
- B. Examine walls, floors, and counters for suitable conditions where sinks will be installed.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install sinks level and plumb in accordance with rough-in drawings.
- B. Install supports, affixed to building substrate, for wall-hung sinks.
- C. Set floor-mounted sinks in leveling bed of cement grout.
- D. Install water-supply piping with stop on each supply to each sink faucet.
 - 1. Exception: Use ball valves if supply stops are not specified with sink. Comply with valve requirements specified in Section 220523.12 "Ball Valves for Plumbing Piping".
 - 2. Install stops in locations where they can be easily reached for operation.
- E. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Use deep-pattern escutcheons if required to conceal protruding fittings. Comply with escutcheon requirements specified in Section 220518 "Escutcheons for Plumbing Piping."
- F. Seal joints between sinks and counters, floors, and walls using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to fixture color. Comply with sealant requirements specified in Section 079200 "Joint Sealants."

3.3 PIPING CONNECTIONS

- A. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
- B. Comply with water piping requirements specified in Section 221116 "Domestic Water Piping."

- C. Comply with soil and waste piping requirements specified in Section 221316 "Sanitary Waste and Vent Piping."

3.4 ADJUSTING

- A. Operate and adjust sinks and controls. Replace damaged and malfunctioning sinks, fittings, and controls.

3.5 CLEANING AND PROTECTION

- A. After completing installation of sinks, inspect and repair damaged finishes.
- B. Clean sinks, faucets, and other fittings with manufacturers' recommended cleaning methods and materials.
- C. Provide protective covering for installed sinks and fittings.
- D. Do not allow use of sinks for temporary facilities unless approved in writing by Client Agency.

END OF SECTION