

4. Plastic; CSA B45.5/IAPMO Z124
  5. Vitreous and non-vitreous china; ASME A112.19.2/CSA B45.1
  6. Terrazzo, concrete, composite stone, and natural stone; CSA B45.8/IAPMO Z403
  7. Glass; CSA B45.11/IAPMO Z401
  8. Aluminum and copper; CSA B45.12/IAPMO Z402
- b. Fixture supply fittings, including faucets and supply stops, shall comply with ASME A112.18.1/CSA B125.1.
  - c. Fixture waste outlet fittings shall comply with ASME A112.18.2/CSA B125.2.
  - d. Sink assemblies with automatic soap dispensers, faucets, or hand dryers shall comply with IAPMO IGC 127.

### 7.11.2 Domestic Kitchen Sinks and Bar Sinks

- a. Each compartment in a kitchen sink or bar sink shall have an outlet suitable for either a domestic food waste disposer or a basket strainer. The waste outlet pipe for each compartment shall be 1-1/2" nominal size. Outlet fittings shall have cross-bars or other provisions for protecting the drain outlet and shall include a means of closing the drain outlet.
- b. Faucets for kitchen sinks and bar sinks shall be designed and manufactured so that they will not exceed a water flow rate of 2.2 gallons per minute when tested in accordance with ASME A112.18.1/CSA B125.1. *See Figure 7.11.2*

### 7.11.3 Laundry Sinks

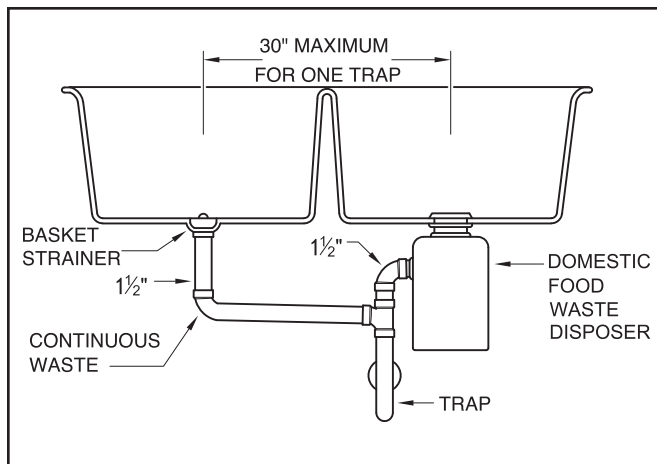
- a. Sinks for laundry use shall be not less than 12 inches deep with a strainer and waste outlet connection not less than 1-1/2" nominal size.
- b. Utility faucets for laundry sinks shall comply with ASME A112.18.1/CSA B125.1.

### 7.11.4 Service Sinks and Mop Receptors

- a. Service sinks and mop receptors shall have removable strainers and waste outlet connections not less than 2" nominal size.
- b. Service sinks and mop receptors shall not be installed where walls and floors are not waterproof and do not have a smooth, readily cleanable surface. Refer to the International Building Code, Section 1210.2.2.

### 7.11.5 Sanitary Floor Sinks

- a. Sanitary floor sinks shall be used as indirect waste receptors in Section 9.3. Their required drain outlet size shall be determined in accordance with Section 9.3.6.
- b. Sanitary floor sinks shall be enameled epoxy-coated cast iron, stainless steel, or PVC plastic construction, and shall comply with ASME A112.6.7.
- c. Top loading classification shall be light duty, medium duty, heavy duty, extra heavy duty, or special duty in accordance with ASME A112.6.3, based on their required safe live load.



**Figure 7.11.2**  
**KITCHEN SINK DRAIN OUTLETS**

- d. Floor sinks shall include anchor flanges, weepholes, flashing clamps, sediment buckets, and secondary strainers where required by their installation and application.
- e. Sink size and grate configuration shall be coordinated with the indirect waste piping being drained.

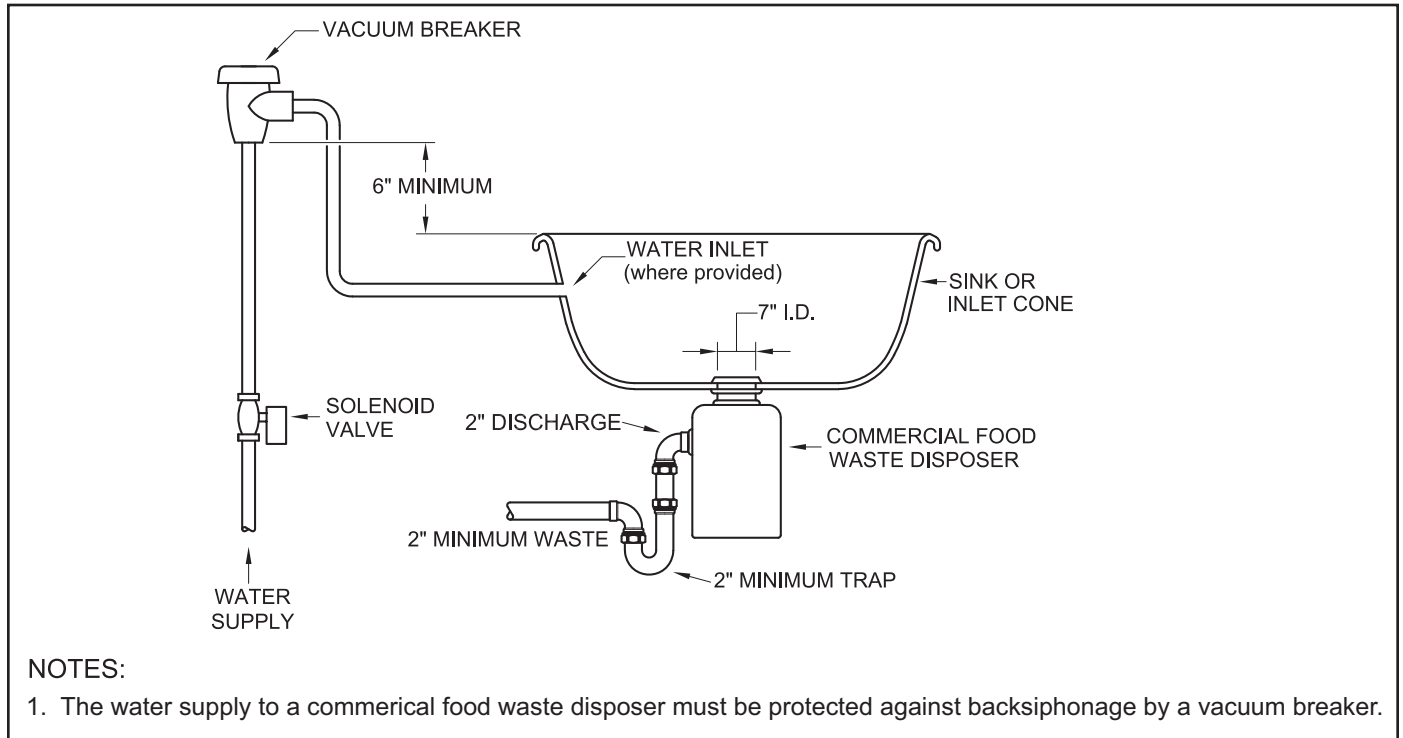
### 7.11.6 Backflow Prevention

- a. Sink faucets having a hose thread or other means of attaching a hose to the outlet shall be protected from backsiphonage by either an integral vacuum breaker, an atmospheric vacuum breaker attached to the outlet, or pressure type vacuum breakers on the fixture supply lines.
- b. Sink faucets without provisions for connecting hoses shall be protected from backsiphonage by a fixed air gap complying with ASME A112.1.2 or Table 10.5.2.

## 7.12 DRINKING WATER FACILITIES

### 7.12.1 Compliance

- a. Drinking water facilities shall comply with the "lead-free" requirements of Section 3.4.6.
- b. Drinking water facilities for accessible use shall comply with Section 7.2.
- c. Drinking fountains shall comply with the following plumbing fixture standards:
  1. Enameled cast iron or steel: ASME A112.19.1/CSA B45.2
  2. Vitreous and non-vitreous china: ASME A112.19.2/CSA B45.1
  3. Stainless steel: ASME A112.19.3/CSA B45.4
- d. Drinking water coolers with self-contained refrigeration units shall comply with UL 399 and ASHRAE Standard 18.
- e. Water bottle filling stations shall comply with applicable standards. Stations with self-contained refrigeration units for chilled water shall comply with UL 399 and ASHRAE Standard 18.



**Figure 7.14.3**  
**A COMMERCIAL FOOD WASTE DISPOSER INSTALLATION**

**7.12.2 Required Drinking Water Facilities**

The required drinking water facilities shall be in accordance with the applicable requirements of Section 7.21.

**7.12.3 Prohibited Locations**

Drinking water facilities shall not be located in public toilet rooms. Convertible lavatory faucets that provide a discharge stream similar to a drinking fountain shall only be permitted in bathrooms in dwelling units.

**7.12.4 Outdoor Drinking Fountain**

Freeze-resistant drinking fountains shall be the sanitary type. Weep hole drains that form a cross connection between ground water and the potable water supply shall not be permitted.

**7.13 AUTOMATIC CLOTHES WASHERS**

**7.13.1 Compliance**

- a. Automatic clothes washers for domestic use or use by the general public shall comply with AHAM HLW-1 or UL 2157 and shall have an air gap incorporated in the internal tub fill line.
- b. Commercial electric clothes washers shall comply with UL 1206 and include backflow prevention.

Comment: Automatic clothes washers that comply with the referenced appliance standards include an internal air gap in the water fill line and do not require the installation of an external backflow prevention device.

**7.14 FOOD WASTE DISPOSERS**

**7.14.1 Compliance**

Domestic food waste disposer units shall comply with UL 430 and either AHAM FWD-1 or ASSE 1008.

**7.14.2 Domestic Units**

Domestic food waste disposer units shall have not less than a 1-1/2" nominal waste connection to the drainage system. Such units may connect to a kitchen sink drain outlet, as permitted in Section 7.11.2.a.

**7.14.3 Commercial Units**

Commercial food waste disposer units shall be connected to the drainage system and be separately trapped from any sink compartment or other fixture. The waste pipe size for such fixtures shall be of sufficient size to serve the fixture but shall be not less than 2-inch nominal size. *See Figure 7.14.3*

**7.14.4 Water Supply**

An adequate supply of water shall be provided for proper operation of food waste disposers.

**7.15 DISHWASHING MACHINES**

**7.15.1 Compliance**

- a. Domestic dishwashing machines shall comply with UL 749 and AHAM DW-1. The water supply to domestic dishwashing machines shall be protected from backsiphonage by an integral air gap, another internal means, or a vacuum breaker. Air gap fittings for drain discharge shall comply with ASSE 1021.