

CHAPTER 8 INDIRECT AND SPECIAL WASTES

801 GENERAL

801.1 Scope

The provisions of this chapter shall govern the materials, design, construction, and installation of indirect and special wastes systems.



801.4 Neutralizing Device

In no case shall corrosive liquids, spent acids, or other harmful chemicals which might destroy or injure a drain, sewer, soil or waste pipe, or which might create noxious or toxic fumes, discharge into the plumbing system without being thoroughly diluted or neutralized by passing through a properly constructed and acceptable dilution or neutralizing device. Such device shall be automatically provided with a sufficient intake of diluting water or neutralizing medium, so as to make its contents noninjurious before being discharged into the soil or sewage system.

801.5 Tests

The indirect and special waste system shall be tested in accordance with 311.

802 DEFINITIONS

The following definitions have been moved to Chapter 2: AIR GAP (DRAINAGE SYSTEM), FLOOR SINK.

803 MATERIAL AND SIZE

The material and size of indirect waste piping shall be in accordance with the provisions applicable to sanitary drainage piping in Chapter 7. Acid and chemical indirect waste pipes shall be of materials unaffected by the discharge of such wastes.

804 INDIRECT WASTE CONNECTIONS

804.1 Food Handling

Establishments engaged in the storage, preparation, selling, serving, processing or other handling of food shall have the waste piping from all food handling equipment indirectly connected to the drainage system through an air gap or air break as specified in Section 806. Food handling equipment includes but is not limited to the following: any sink where food is cleaned, peeled, cut up, rinsed, battered, defrosted or otherwise prepared or handled; potato peelers; ice cream dipper wells; refrigerators; freezers; walk-in coolers or freezers; ice boxes; ice making machines; fountain type drink dispensers; rinse sinks; cooling or refrigerating coils; laundry washers; extractors; steam tables; steam kettles; egg boilers; coffee urns; or similar equipment.

EXCEPTION: An air gap is the only acceptable method of indirectly connecting any food handling equipment wherein the indirect waste pipe may be under a vacuum.

804.2 Commercial Dishwashing Machines

Commercial dishwashing machines shall be indirectly connected.

804.3 Connections

804.3.1 Water Supply Connections

Drains, overflows or relief lines from the water supply system shall waste into an indirect waste receptor through an air gap.

804.3.2 Air Conditioning Unit Connections

Indirect waste connections shall be provided for drains, overflows, or relief lines from air conditioning units.

804.4 Sterile Materials

Appliances, devices, or apparatus such as stills, sterilizers, and similar equipment, requiring water and waste connections and used for sterile material, shall be indirectly connected or provided with an air gap between the trap and the appliance.

804.5 Drips

Appliances, devices, or apparatus not regularly classed as plumbing fixtures but which have drips or drainage outlets shall be drained by indirect waste pipes discharging into an open receptacle as provided in 804.1.

805 LIMITATIONS

805.1 Maximum Length

805.1.1 Indirect waste pipe exceeding 2 ft (610 mm) long shall be trapped.

805.1.2 The maximum length of the indirect waste to indirect waste receptor shall not exceed 15 ft (4527 mm).

805.2 Cleaning

Indirect waste piping shall be so installed as to permit ready access for flushing and cleansing.

806 INDIRECT WASTE METHODS

806.1 Air gap

The air gap between the indirect waste and the building drainage system shall be at least twice the diameter of the effective opening of the indirect waste pipe, but in no case less than 2 inches (51 mm), and shall be provided by extending the indirect waste pipe to an open, accessible floor sink, service sink, floor drain, hub drain or other suitable fixture which is properly trapped and vented. The indirect waste pipe shall terminate a sufficient distance above the

flood level rim of the sink or receptor to provide the minimum required air gap and shall be installed in accordance with other applicable sections of this code.

806.2 Air break

The air break between the indirect waste and the building drainage system shall be installed such that the level of the lowest outlet located on the fixture, device, appliance or apparatus (to which the indirect waste pipe connects) is above the flood level rim of the receiving sink or other receptor by a vertical distance of at least twice the diameter of the effective opening of the indirect waste pipe, but in no case less than 2 inches (51 mm). In addition, the indirect waste pipe shall terminate below the flood level rim of the receiving sink or other receptor a distance equal to not more than 1/2 the diameter of the effective opening of the indirect waste pipe.

806.3 Cleanliness

The sink or receptor receiving indirect wastes shall be water-supplied if the waste stream contains or is expected to contain a sufficient amount of organic matter capable of causing odors or otherwise causing a nuisance due to an insufficient dilution of the waste material discharged into the sink or receptor.

807 INDIRECT WASTE METHODS

807.1 Receptors

807.1.1 Installation. Waste receptors serving indirect waste pipes shall not be installed in any toilet room, nor in any inaccessible or unventilated space such as a closet or storeroom.

807.1.2 Strainers and Baskets. Every indirect waste receptor receiving discharge containing particles that would clog the receptor shall be equipped with a basket or other device which shall prevent passage into the drainage system of solids 1/2 inch (12.7mm) or larger in size. The basket or device shall be removable for cleaning purposes.

807.1.3 Splashing. All plumbing receptors receiving the discharge of indirect waste pipes shall be of such shape and capacity as to prevent splashing or flooding. No plumbing fixture which is used for domestic or culinary purposes shall be used to receive the discharge of an indirect waste pipe.

807.2 Clear Water Wastes

Water lifts, expansion tanks, cooling jackets, sprinkler systems, drip or overflow pans or similar devices which waste clear water only, shall discharge into the building drainage system through an indirect waste.

807.3 Hot Water Drainage

A steam pipe shall not connect directly to any part of a drainage system, nor shall any water above 140oF (60oC) be discharged directly into any part of a drainage system

807.4 Drinking Fountains

Drinking fountains may be installed with indirect wastes.

807.5 Swimming Pools

Piping carrying waste water from swimming or wading pools, including pool drainage, backwash from filters, water from scum gutter drains or floor drains which serve walks around pools, shall be installed as an indirect waste utilizing a circulation pump, if necessary, when indirect waste line is below the sewer grade.

808 APPENDIX REFERENCES

Additional provisions for indirect and special wastes are found in the following appendices: Appendix B - Travel Trailers and Travel Trailer Parks; Appendix C - Mobile/Manufactured Homes and Mobile/Manufactured Home Parks; Appendix E - Private Sewage Disposal; Appendix G - Medical Facilities Plumbing Systems. These provisions are applicable only when they are referenced in the body of the code sections or when included in the adopting ordinance.