

## CHAPTER 32

### TRAPS

#### SECTION P3201 FIXTURE TRAPS

**P3201.1 Design of traps.** Traps shall be of standard design, shall have smooth uniform internal waterways, shall be self-cleaning and shall not have interior partitions except where integral with the fixture. Traps shall be constructed of lead, cast iron, cast or drawn brass or approved plastic. Tubular brass traps shall be not less than No. 20 gage (0.8 mm) thickness. Solid connections, slip joints and couplings are permitted to be used on the trap inlet, trap outlet, or within the trap seal. Slip joints shall be accessible.

**P3201.2 Trap seals and trap seal protection.** Traps shall have a liquid seal not less than 2 inches (51 mm) and not more than 4 inches (102 mm).

**Exception:** Traps for floor drains shall be fitted with a trap primer or shall be of the deep seal design.

**P3201.3 Trap setting and protection.** Traps shall be set level with respect to their water seals and shall be protected from freezing. Trap seals shall be protected from siphonage, aspiration or back pressure by an approved system of venting (see Section P3101).

**P3201.4 Building traps.** Building (house) traps shall be prohibited, except where local conditions necessitate such traps as required by the code enforcement official. Building traps may be installed inside or outside the building, and the material shall be consistent with the building sewer pipe. Building traps shall be provided with a cleanout and a relief vent or fresh air intake on the inlet side of the trap. The housetrap shall not be the only plumbing vent to the exterior. The size of the relief vent or fresh air intake shall not be less than one-half the diameter of the drain to which the relief vent or air intake connects. Such relief vent or fresh air intake shall be carried above grade and shall be terminated in a screened outlet located outside the building.

**P3201.5 Prohibited trap designs.** The following types of traps are prohibited:

1. Bell traps.
2. Separate fixture traps with interior partitions, except those lavatory traps made of plastic, stainless steel or other corrosion-resistant material.
3. "S" traps (except as permitted under Section P3105.3).
4. Drum traps.
5. Trap designs with moving parts.

**P3201.6 Number of fixtures per trap.** Each plumbing fixture shall be separately trapped by a water seal trap placed as close as possible to the fixture outlet. The vertical distance from the fixture outlet to the trap weir shall not exceed 24 inches (610 mm). The distance of a clothes washer standpipe above a trap shall conform to Section P2706.2. Fixtures shall not be double trapped. Exceptions to the separate trapping requirements are as follows:

1. Fixtures that have integral traps.
2. A single trap shall be permitted to serve two or three like fixtures limited to kitchen sinks, laundry tubs and lavatories. Such fixtures shall be adjacent to each other and located in the same room with a continuous waste arrangement. The trap shall be installed at the center fixture where three such fixtures are installed. Common trapped fixture outlets shall not be more than 30 inches (762 mm) apart.
3. The connection of a laundry tub waste line is permitted to be made into a standpipe for the automatic clothes-washer drain in accordance with Section P2706.2.1.

**P3201.7 Size of fixture traps.** Fixture trap size shall be sufficient to drain the fixture rapidly and not less than the size indicated in Table P3201.7. A trap shall not be larger than the drainage pipe into which the trap discharges.

**TABLE P3201.7  
SIZE OF TRAPS AND TRAP ARMS FOR PLUMBING FIXTURES**

PLUMBING FIXTURE	TRAP SIZE MINIMUM (inches)
Bathtub (with or without shower head and/or whirlpool attachments)	1½
Bidet	1¼
Clothes washer standpipe	2
Dishwasher (on separate trap)	1½
Floor drain	2
Kitchen sink (one or two traps, with or without dishwasher and garbage grinder)	1½
Laundry tub (one or more compartments)	1½
Lavatory	1¼
Shower	2
Water closet	Note a

For SI: 1 inch = 25.4 mm.

a. Consult fixture standards for trap dimensions of specific bowls.

**NEW YORK STATE CODE**

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