

CITY OF PHILADELPHIA

DEPARTMENT OF LICENSES AND INSPECTIONS

AMENDMENTS TO THE PHILADELPHIA PLUMBING CODE

The Philadelphia Plumbing Code is hereby amended as follows (matter deleted in ~~strikethrough~~; matter added in underlined text):

PLUMBING CODE

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**CHAPTER 3
MATERIALS**

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SECTION P-305 MATERIALS FOR PLUMBING INSTALLATIONS

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~~P-305.3 Outside drainage piping. Tar coated paper known as orangeburg, either whole or perforated, shall be used for the drainage of subsurface water only. Reserved.~~

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**CHAPTER 9
SOIL AND WASTE PIPING**

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SECTION P-902 MATERIALS

P-902.1 Soil and waste piping above ground within buildings. Soil and waste piping for drainage systems within a building, other than underground drains, shall be of ~~cast iron (either hub or hubless), galvanized steel, galvanized yoloy, galvanized malleable iron split couplings (victaulic), brass, DWV or heavier copper tubing, stainless steel (409 type "G" copper coated), ABS or PVC plastic. All materials shall conform to Section P-305. Where necessary for corrosive, industrial or laboratory wastes, the drains shall be of acid-resisting cast iron, chemical stoneware, chemical porcelain, modified epoxy resin, saran lined steel pipe, stainless steel teflon lined couplings, Zytel mechanical couplings, or heat resistant pre-stressed borosilicate glass, polyethylene or polypropylene. Where copper tubing is used for urinal drains, the tubing shall be "K" copper.~~ conform to one of the standards listed in Table 902.1.

TABLE 902.1
ABOVE-GROUND DRAINAGE AND VENT PIPE

<u>MATERIAL</u>	<u>STANDARD</u>
<u>Acrylonitrile butadiene styrene (ABS) plastic pipe</u>	<u>ASTM D 2661; ASTM F 628; CSA B181.1</u>
<u>Brass pipe</u>	<u>ASTM B 43</u>
<u>Cast-iron pipe</u>	<u>ASTM A 74; ASTM A 888; CISPI 301</u>
<u>Coextruded composite ABS DWV schedule 40 IPS pipe (solid)</u>	<u>ASTM F 1488</u>
<u>Coextruded composite ABS DWV schedule 40 IPS pipe (cellular core)</u>	<u>ASTM F 1488</u>
<u>Coextruded composite PVC DWV schedule 40 IPS pipe (solid)</u>	<u>ASTM F 1488</u>
<u>Coextruded composite PVC DWV schedule 40 IPS pipe (cellular core)</u>	<u>ASTM F 891; ASTM F 1488</u>
<u>Coextruded composite PVC IPS-DR, PS 140, PS200 DWV</u>	<u>ASTM F 1488</u>
<u>Copper or copper-alloy pipe</u>	<u>ASTM B 42; ASTM B 302</u>
<u>Glass pipe</u>	<u>ASTM C 1053</u>
<u>Polyolefin pipe</u>	<u>ASTM F 1412; CAN/CSA B181.3</u>
<u>Polyvinyl chloride (PVC) plastic pipe (Type DWV)</u>	<u>ASTM D 2665; ASTM D 2949; ASTM F 1488; CSA B181.2</u>
<u>Stainless steel drainage systems, Types 304 and 316L</u>	<u>ASME A112.3. 1</u>

P-902.2 Underground sanitary drains. Underground building sanitary drainage within a building and beyond the building wall ~~to the street, including site work,~~ shall conform to one of the materials and standards listed in Table P-902.2. Drainage systems for corrosive industrial wastes shall be of acid-resisting cast iron or other material that is resistant to corrosion and degradation for the concentrations of chemicals involved.

TABLE P-902.2 — UNDERGROUND SANITARY DRAINAGE AND VENT PIPE

MATERIAL	STANDARD
<u>Acrylonitrile butadiene styrene (ABS) plastic pipe</u>	<u>ASTM D2661; ASTM F628: CSA B181.1</u>
Cast iron pipe	ASTM A 74; <u>ASTM A 888</u> ; CISPI 301
<u>Coextruded composite ABS DWV schedule 40 IPS pipe (solid)</u>	<u>ASTM F 1488</u>
<u>Coextruded composite ABS DWV schedule 40 IPS pipe (cellular core)</u>	<u>ASTM F 1488</u>
<u>Coextruded composite PVC DWV schedule 40 IPS (solid)</u>	<u>ASTM F 891; ASTM F</u>
<u>Coextruded composite PVC DWV schedule 40 IPS (solid)</u>	<u>ASTM F 891; ASTM F 1488</u>
<u>Coextruded composite PVC IPS-DR, PS140, PS200 DWV</u>	<u>ASTM 1488</u>
Concrete pipe ^a	ASTM C 14; ASTM C 76; CSA A 257.1; CSA A 257.2
Copper or copper-alloy tubing (Type K or E , L, M, or DWV)	ASTM B 75; ASTM B 88; ASTM B 251; <u>ASTM B 306</u>
Ductile iron	AWWA C 151
<u>Polyolefin pipe</u>	<u>ASTM F 1412; CSA B181.3</u>
<u>Polyvinyl chloride (PVC) plastic pipe (Type DWV)</u>	<u>ASTM D 2665; ASTM D 2949; CSA B181.2</u>
<u>Stainless steel drainage systems, Type 316L</u>	<u>ASME A112.3.1</u>
Vitrified clay pipe ^a	ASTM C 4; ASTM C 700

Note a: Not permitted underground within buildings nor within 10 feet of the building foundation.

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P-902.5 Plastic pipe. The use of ABS plastic pipe and PVC plastic pipe authorized by Sections P-902.1 and P-902.2 shall be limited to installation in use only in connection with buildings containing dwelling units only. Such buildings shall consist of that house from one to four

families and shall that do not exceed three stories in height. For the purpose of this section, basements are not considered a story height.

P-902.6 Chemical waste system. A chemical waste system shall be completely separated from the sanitary drainage system. The chemical waste shall be treated in accordance with Section P-1205.2 before discharging to the sanitary drainage system. Separate drainage systems for chemical wastes and vent pipes shall be of an approved material that is resistant to corrosion and degradation for the concentrations of chemicals involved.

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CHAPTER 10
STORM WATER DRAINAGE PIPING

SECTION P-1001 GENERAL REQUIREMENTS

P-1001.1 Impervious area drainage. All roofs exceeding 300 square feet, all paved areas exceeding 5000 square feet, all paved courts and all paved open shafts shall be drained to an approved point of disposal, except that for one- and two-family dwellings, and where approved, storm water is permitted to discharge onto flat areas such as lawns, provided that the storm water flows away from the building. All paved areas in excess of 5000 square feet and all open shafts shall be drained into a public storm-sewer system, an approved storm water management system or a public combined sewer system, to a point of disposal approved by the Department so as to:

1. Protect the foundation of buildings from water damage;
2. Prevent water accumulation on streets, sidewalks and other areas used for pedestrian or vehicular travel;
3. Prevent water accumulation which may cause odors, the breeding of insects, or other health hazards;
4. Prevent contamination of water supply systems.

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SECTION P-1003 SUBSOIL DRAINS

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P-1003.4 Materials. Subsoil drains shall be open-jointed, horizontally split or perforated pipe conforming to one of the standards listed in Table 1003.4.

TABLE P-1003.4
SUBSOIL DRAIN PIPE MATERIALS

<u>MATERIAL</u>	<u>STANDARD</u>
<u>Asbestos-cement pipe</u>	<u>ASTM C 508</u>
<u>Cast-iron pipe</u>	<u>ASTM A 74; ASTM A 888; CISPI 301</u>
<u>Polyethylene (PE) plastic pipe</u>	<u>ASTM F 405; CAN/CSA B182.1; CSA B182.6; CSA B182.8</u>

Polyvinyl chloride (PVC) Plastic pipe (type sewer pipe, PS25, PS50 or PS100)	ASTM D 2729; ASTM F 891; CSA B182.2; CAN/CSA B182.4
Stainless steel drainage systems, Type 316L	ASME A 112.3.1
Vitrified clay pipe	ASTM C 4; ASTM C 700

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SECTION P-1005 MATERIALS

P-1005.1 Inside ~~rainwater conductors~~ storm drainage conductors. ~~Rainwater conductors within a building shall be of cast iron pipe (either hub or hubless), galvanized steel pipe, galvanized yaloy pipe, galvanized malleable iron split couplings (victaulic), brass pipe, DWV or heavier cooper tube, stainless steel (409 type "G" copper coated), ABS or PVC plastic. All material shall conform to Section P-305 installed above ground shall conform to one of the standards listed in Table P-902.1.~~

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P-1005.3 Underground storm drains. Underground building storm drain pipe within a building and beyond the building wall to the street, including site work shall conform to one of the materials and standards listed in ~~Table P-1005.3~~ 902.2. These materials shall be installed with approved fittings in compliance with Section P-305.

~~TABLE P 1005.3 UNDERGROUND STORM DRAINPIPE~~

Material	Standard
Cast iron pipe	ASTM A 74; CISPI 301
Concrete pipe ^a	ASTM C 14; ASTM C 76; CSA A 257.1; CSA A 257.2
Copper or copper alloy tubing (Type K or L)	ASTM B 75; ASTM B 88; ASTM B 251
Ductile iron	AWWA C 151
Vitrified clay pipe ^a	ASTM C 4; ASTM C 700

~~**Note a:** Not permitted underground within buildings for the first 10 feet extension from a building.~~

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P-1005.5 Plastic Pipe. The use of ABS plastic pipe and PVC plastic pipe and fittings authorized by Sections P-1005.1 and P-1005.3 shall be installed in accordance with Section P-305.0 and shall be limited to use only in connection with the following buildings:

1. Residential buildings containing no more than four families and not exceeding three stories in height. For the purpose of this section, basements are not considered a story.

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CHAPTER 12
INDIRECT AND SPECIAL WASTE

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SECTION P-1205 Special Wastes

P-1205.1 Wastewater temperature. Steam pipes shall not connect to any part of a drainage or plumbing system and water above 140 degrees F (60 degrees C) shall not be discharged into any part of a drainage system. Such pipes shall discharge into an indirect waste receptor connected to the drainage system.

P-1205.2 Neutralizing device required for corrosive wastes. Corrosive liquids, spent acids or other harmful chemicals that destroy or injure a drain, sewer, soil or waste pipe, or create noxious fumes or interfere with sewage treatment processes shall not be discharged into the plumbing system without being thoroughly neutralized or treated by passing through an approved neutralizing device. Such devices shall be automatically provided with a sufficient supply of neutralizing medium so as to make the contents non-injurious before discharge into the drainage system. The nature of corrosive or harmful waste and the method of its treatment shall be approved prior to installation.

P-1205.3 Wastewater discharged to the City sanitary sewer system must meet the requirements of the Philadelphia Water Department.

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