Mechanical Code of New York State

New York State Department of State
Division of Code Enforcement and Administration

George E. Pataki - Governor
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Marginal Markings
New York modifications to code language are indicated by NY tape ( NY ) in the margin, and New York text is underlined. Deletion of code language by New York is indicated by an arrow ( ➔ ) in the margin.

“Reserved” indicates that a section or portion of the International Code™ has been deleted, but its number or position has been retained.

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The content of sections in this code which begin with a letter designation are maintained by another code development committee in accordance with the following: [B] = International Building Code Development Committee; [F] = International Fire Code Development Committee; [M] = International Mechanical Code Development Committee; [P] = International Plumbing Code Development Committee; [RBE] = International Residential Code Building and Energy Development Committee; [RMP] = International Residential Code Mechanical/Plumbing Development Committee; and [E] = International Energy Conservation Code Development Committee.
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CHAPTER 1
GENERAL REQUIREMENTS

SECTION 101
GENERAL

101.1 Title. These provisions shall be known as the Mechanical Code of New York State and shall be cited as such, and will be referred to herein as “this code.”

101.2 Scope. The provisions of this code shall apply to the design, installation, maintenance, alteration and inspection of mechanical systems that are permanently installed and utilized to provide control of environmental conditions and related processes within buildings. This code shall also regulate those mechanical systems, system components, equipment and appliances specifically addressed in herein. The installation of fuel gas distribution piping and equipment, fuel gas-fired appliances and fuel gas-fired appliance venting systems shall be regulated by the Fuel Gas Code of New York State.

Exception: Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures shall comply with the Residential Code of New York State.

101.2.1 Appendices. The following appendix has been adopted and is made part of this code:

Appendix C - Structural Safety

101.3 Purpose. The purpose of this code is to provide minimum standards to safeguard life or limb, health, property and public welfare by regulating the design, construction, installation, quality of materials, location, operation and maintenance or use of mechanical systems.

101.4 Severability. If a section, subsection, sentence, clause or phrase of this code is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this code.

SECTION 102
APPLICABILITY

102.1 General. The provisions of this code shall apply to all matters affecting or relating to structures and premises, as set forth in Section 101. Where, in a specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern.

102.2 Existing installations. Except as otherwise provided for in this chapter, a provision in this code shall not require the removal, alteration or abandonment of, nor prevent the continued utilization and maintenance of, a mechanical system lawfully in existence at the time of the adoption of this code.

102.3 Maintenance. Mechanical systems, both existing and new, and parts thereof shall be maintained in proper operating condition in accordance with the original design and in a safe and sanitary condition. Devices or safeguards which are required by this code shall be maintained in compliance with the code under which they were installed.

102.4 Additions, alterations or repairs. Additions or alterations to a mechanical system shall conform to that required for a new mechanical system without requiring the existing mechanical system to comply with all of the requirements of this code. Additions or alterations shall not cause an existing mechanical system to become unsafe, hazardous or overloaded.

Repairs to existing mechanical systems shall meet the provisions for new construction, unless such work is done in the same manner and arrangement as was in the existing system, is not hazardous and is approved.

102.5 through 102.7. Reserved.

102.8 Referenced standards. The standards referenced herein shall be those that are listed in Chapter 15 and such standards shall be considered as part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between provisions of this code and the referenced standards, the provisions of this code shall apply.

102.9 Other laws and regulations. The provisions of this code shall not be deemed to nullify any provisions of local, state or federal laws and regulations.

SECTION 103
OFFICE OF CODE ENFORCEMENT

103.1 General. A city, town, village or county that is responsible for administration and enforcement of this code shall designate a code enforcement official in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

SECTION 104
CODE ENFORCEMENT OFFICIAL

104.1 General. A city, town, village or county that is responsible for administration and enforcement of this code shall establish its local program in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

104.2 and 104.3 Reserved.

104.4 Inspections. A city, town, village or county that is responsible for administration and enforcement of this code shall...
provide for inspections in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

104.5 through 104.7 Reserved.

104.8 Department records. A city, town, village or county that is responsible for administration and enforcement of this code shall establish and maintain records in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall keep records in compliance with the applicable provisions of state agency regulations.

SECTION 105 APPROVAL

105.1 Reserved.

105.2 Alternative materials, methods, equipment and appliances. The provisions of this code are not intended to prevent the installation of any material or to prohibit any method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material or method of construction shall be approved where the State Fire Prevention and Building Code Council finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

105.3 Testing. Reserved.

105.3.1 Test methods. Test methods shall be as specified in this code or by other recognized test standards.

105.4 Material, equipment and appliance reuse. Material, equipment and devices shall not be reused unless they meet the requirements of this code for new materials.

SECTION 106 PERMITS

106.1 When required. A city, town, village or county that is responsible for administration and enforcement of this code shall determine local permit requirements in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

106.2 through 106.4 Reserved.

106.5 Fees. A city, town, village or county that is responsible for administration and enforcement of this code shall establish fees in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

SECTION 107 INSPECTIONS

107.1 Required inspections and testing. A city, town, village or county that is responsible for administration and enforcement of this code shall determine necessary inspections in accordance with the applicable provisions of local law.

A state agency that is responsible for administration and enforcement of this code shall be in compliance with the applicable provisions of state agency regulations.

107.2 Testing. Mechanical systems shall be tested as required in this code and in accordance with Sections 107.2.1 through 107.2.3.

107.2.1 New, altered, extended or repaired systems. New mechanical systems and parts of existing systems, which have been altered, extended, renovated or repaired, shall be tested as prescribed herein to disclose leaks and defects.

107.2.3 Reinspection and testing. Where any work or installation does not pass an initial test or inspection, the necessary corrections shall be made so as to achieve compliance with this code.

SECTION 108 VIOLATIONS

108.1 Violations. Violations of this code shall be dealt with in a manner appropriate to the applicable provisions of city, town, village or county and shall be in accordance with the applicable provisions of local law.

Violations of this code on state property shall be dealt with in a manner appropriate to a state agency.

108.2 through 108.6 Reserved.

108.7 Unsafe mechanical systems. A mechanical system that is unsafe, constitutes a fire or health hazard, or is otherwise dangerous to human life, as regulated by this code, by reason of inadequate maintenance, dilapidation, fire hazard, disaster, damage or abandonment shall be abated by repair, rehabilitation, demolition or removal.

SECTION 109 VARIANCE PROCEDURES

109.1 Application for variance or appeal. Variance or appeal for any part of this code shall be in accordance with the provisions of 19 NYCRR, titled “Variance Procedures,” which is administered by the Secretary of State. No town, village, city or county, nor any state agency charged with the administration and enforcement of this code may waive, modify or otherwise alter this code.
CHAPTER 2
DEFINITIONS

SECTION 201
GENERAL

201.1 Scope. Unless otherwise expressly stated, the following words and terms shall, for the purposes of this code, have the meanings indicated in this chapter.

201.2 Interchangeability. Words used in the present tense include the future; words in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

201.3 Terms defined in other codes. Where terms are not defined in this code and are defined in the Building Code of New York State, Fire Code of New York State, Fuel Gas Code of New York State or the Plumbing Code of New York State, such terms shall have meanings ascribed to them as in those codes.

201.4 Terms not defined. Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies.

SECTION 202
GENERAL DEFINITIONS

ABRASIVE MATERIALS. Moderately abrasive particulate in high concentrations, and highly abrasive particulate in moderate and high concentrations, such as alumina, bauxite, iron silicate, sand and slag.

ACCESS (TO). That which enables a device, appliance or equipment to be reached by ready access or by a means that first requires the removal or movement of a panel, door or similar obstruction [see also “Ready access (to)”].

AIR. All supplied air to mechanical equipment and appliances for combustion, ventilation, cooling, etc. Standard air is air at standard temperature and pressure, namely, 70°F (21°C) and 29.92 inches of mercury (101.3 kPa).

AIR CONDITIONING. The treatment of air so as to control simultaneously the temperature, humidity, cleanliness and distribution of the air to meet the requirements of a conditioned space.

AIR-DISTRIBUTING SYSTEM. A system that consists of heat exchangers, blowers, filters, supply, exhaust and return ducts, and shall include any apparatus installed in connection therewith.

AIR DISTRIBUTION SYSTEM. Any system of ducts, plenums and air-handling equipment that circulates air within a space or spaces and includes systems made up of one or more air-handling units.

AIR, EXHAUST. Air being removed from any space, appliance or piece of equipment and conveyed directly to the atmosphere by means of openings or ducts.

AIR-HANDLING UNIT. A blower or fan used for the purpose of distributing supply air to a room, space or area.

AIR, MAKEUP. Air that is provided to replace air being exhausted.

ALTERATION. A change in a mechanical system that involves an extension, addition or change to the arrangement, type or purpose of the original installation.

APPLIANCE. A device or apparatus that is manufactured and designed to utilize energy and for which this code provides specific requirements.

APPLIANCE, EXISTING. Any appliance regulated by this code which was legally installed prior to the effective date of this code, or for which a permit to install has been issued.

APPLIANCE, FUEL-FIRED. An appliance that burns solid, liquid and/or gaseous fuel, including but not limited to wood stoves, household cooking ranges, furnaces, boilers, water heaters, clothes dryers and gas-fired refrigerators.

APPLIANCE, GAS (EQUIPMENT). Any apparatus or equipment that uses gas as a fuel or raw material to produce light, heat, power, refrigeration, or air conditioning.

APPLIANCE TYPE.

High-heat appliance. Any appliance in which the products of combustion at the point of entrance to the flue under normal operating conditions have a temperature greater than 2,000°F (1093°C).

Low-heat appliance (residential appliance). Any appliance in which the products of combustion at the point of entrance to the flue under normal operating conditions have a temperature of 1,000°F (538°C) or less.

Medium-heat appliance. Any appliance in which the products of combustion at the point of entrance to the flue under normal operating conditions have a temperature of more than 1,000°F (538°C), but not greater than 2,000°F (1093°C).

APPLIANCE, UNVENTED. An appliance designed or installed in such a manner that the products of combustion are not conveyed by a vent or chimney directly to the outside atmosphere.

APPLIANCE, VENTED. An appliance designed and installed in such a manner that all of the products of combustion are conveyed directly from the appliance to the outside atmosphere through an approved chimney or vent system.

APPROVED. Acceptable to the code enforcement official.

APPROVED AGENCY. An established and recognized agency that is regularly engaged in conducting tests or furnishing inspection services.

AUTHORITY HAVING JURISDICTION. The local government, county government or state agency responsible for the