

ARTICLE VIII MECHANICAL CODE

Sec. 5-71. Adoption of the ~~2003~~ 2009 Edition of the International Mechanical Code. *The ~~2003~~ 2009 Edition of the International Mechanical Code, as published by the International Code Council, is hereby adopted as the mechanical code of the City of Urbana, Illinois; for the control of buildings and structures as herein provided; and each and all of the regulations, provisions, penalties, conditions, and terms of the said ~~2003~~ 2009 Edition of the International Mechanical Code are hereby referred to, adopted, and made a part hereof, as if fully set out in this Article, with the additions, insertions, deletions, and changes prescribed in Section 5-73 of this Article.*

Sec. 5-72. Effect of State Law. *The adoption of the ~~2003~~2009 Edition of the International Mechanical Code herein pursuant to home rule powers is not intended to negate any state statute on the same subject except insofar as this article imposes a more stringent requirement or standard than does the state statute.*

Sec. 5-73. Additions, Deletions, Modifications, and Amendments. *The following sections of the ~~2003~~2009 Edition of the International Mechanical Code, are amended and/or changed as defined in this Article, as follows:*

Section M-101.1 entitled, "Title," is amended to read as follows:

Section M-101.1 Title: This code (as amended) shall be known as the Mechanical Code of the City of Urbana, Illinois, hereinafter referred to as the Mechanical Code, or "this Code".

Section M-103.1 entitled "General," is amended to read as follows:

Section M-103.1 General: The term "Code Official" as used in this code, shall refer to the Plumbing/Mechanical Official.

Section M-106.3.1 entitled, "Separate Permits Required," is added and reads as follows:

Section M-106.3.1 Separate Permits Required: A permit shall authorize mechanical work to be performed at only one address. Each structure, building, parcel, or address shall require a separate permit.

Section M-106.4.~~79~~ entitled, "Permit Denial," is added and reads as follows:

Section M-106.4.~~79~~ Permit Denial: The Plumbing/Mechanical Official shall have the authority to deny issuance of a mechanical permit to any applicant who is delinquent with respect to permits and notices previously issued to applicant.

Section M-106.5.2 entitled, "Fee Schedule," is amended to read as follows:

Section M-106.5.2 Fee Schedule: The fees for all mechanical work shall be as prescribed in Chapter 14 in the Urbana Code of Ordinances.

Section M-106.5.3 entitled "Fee Refunds" is deleted in its entirety.

Section M-107.~~34~~ entitled "Approval," is deleted.

Section M-108.2.1 entitled "Service of Notices," is added and reads as follows:

Section M-108.2.1 Service of Notices: The notice shall be deemed to be properly served upon such

owner if (1) a copy thereof is delivered to the owner personally or (2) a copy thereof is mailed to the owner by regular, first-class U.S. mail, postage prepaid, and a copy thereof is posted in a conspicuous place on the premises where the violation exists. If the notice is served by mailing and posting, the service shall be deemed effective on the third day after mailing and posting.

Section M-108.4 entitled, "Violation Penalties," is amended to read as follows:

Section M-108.4 Violation Penalties: Any person who violates any provision of this Code or shall fail to comply with any of the requirements thereof or who shall erect, construct, alter, or repair mechanical equipment or systems in violation of this Code shall be subject to the penalties as prescribed in Section 1-10 of the Urbana Code of Ordinances. Each day that a violation continues shall be deemed as a separate offense.

Section M-108.5 entitled, "Stop Work Orders," is amended to read as follows:

Section M-108.5 Stop Work Order: Any person who shall continue any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to penalties prescribed in Section 1-10 of the Urbana Code of Ordinances.

Section M-109.1.42 entitled, "Building Safety Code Board of Appeals," is added and reads as follows:

Section M-109.1.42 Building Safety Code Board of Appeals: All appeals shall be heard by the Building Safety Code Board of Appeals, as referenced in the International Building Code, ~~2003~~2009, as amended.

Sections M-109.2 entitled, "Membership of Board," through M-109.7 entitled, "Court Review," are deleted.

Section M-201.5 entitled, "Code Official," is added and reads as follows:

Section M-201.5 Code Official: Wherever the terms "Code Official," "Authority Having Jurisdiction," or "Administrative Authority," are used, (in this Code or in referenced codes and standards), they shall be held to mean the Plumbing/Mechanical Official of the Building Safety Division of the City of Urbana, Community Development Services Department.

Section M-301.3.1 entitled, "Fuel-Burning Equipment," is added and reads as follows:

Section M-301.3.1 Fuel-Burning Equipment: All fuel-burning heating equipment, both newly installed and existing, shall be equipped with an approved supervised pilot/ignition assembly (flame safeguard).

Section M-303.9 entitled, "Sleeping Rooms," is added and reads as follows:

Section M-303.9 Sleeping Rooms: Gas-fired or liquid fuel-fired equipment and appliances shall not be made accessible from sleeping rooms, bathrooms or any habitable rooms with doors normally kept closed unless otherwise approved by the Code Official.

Section M-304.4213 entitled, "Equipment on Roofs," is added and reads as follows:

Section M-304.4213 Equipment on Roofs: A roof on which mechanical equipment is to be installed shall be capable of supporting the additional weight and dynamic action loads.

Section M-313 entitled, "Furnaces and Heaters," is added.

Section M-313 Furnaces and Heaters

Section M-313.1 entitled, "Heat Exchangers," is added and reads as follows:

Section M-313.1 Heat Exchangers: Forced air and gravity furnace heat exchangers shall not be repaired unless approved by the Code Official.

Section M-313.2 entitled, "Floor Furnaces," is added and reads as follows:

Section M-313.2 Floor Furnaces: The installation of floor furnaces is prohibited in all occupancies.

Section M-313.3 entitled, "Dwelling Heating," is added and reads as follows:

Section M-313.3 Dwelling Heating: Wall furnaces, through-the-wall heaters, and space heaters shall not be installed as a central heating system. Such equipment shall not serve as the primary source of heat in a dwelling unit unless otherwise approved by the Code Official.

Section M-313.4 entitled, "Direct Fired Heaters," is added and reads as follows:

Section M-313.4 Direct Fired Heaters: Direct gas-fired heaters may be installed only in occupancies of Use Group H, S, or F, unless otherwise approved by the Code Official.

Section M-403.1.1 entitled, "Negative Pressure," is added and reads as follows:

Section M-403.1.1 Negative Pressure: Ventilation and exhaust systems shall be designed and installed so that negative pressure from the ventilation system cannot adversely affect the flues, vents, chimneys, or combustion air supply for fuel-burning equipment.

Section M-403.2.3 entitled, "Return Air," is added and reads as follows:

Section M-403.2.3 Return Air: Air from any boiler/furnace room, bath/toilet room, kitchen, trash room, janitor closet, garage, storage room, or any room containing toxic, flammable, corrosive, radioactive, or pathogenic materials shall not be recirculated.

Section M-603.5 entitled "Nonmetallic ducts" is amended to read as follows:

Section 603.5 Nonmetallic ducts: Nonmetallic ducts shall be construction with Class 0 or Class 1 duct material in accordance with UL 181. ~~Fibrous duct construction shall conform to the SMACNA Fibrous Glass Duct Construction Standards or NAIMA Fibrous Glass Duct Construction standards.~~ The maximum air temperature within nonmetallic ducts shall not exceed 250°F (121°C). Fibrous glass air ducts (duct board) are **not** permitted in any use group.

Section M-603.9 entitled "Joints, seams and connections" is amended to read as follows:

Section 603.9 Joints, seams and connections: All longitudinal and transverse joints, seams and connections in metallic and nonmetallic ducts shall be constructed as specified in SMACNA *HVAC Duct Construction Standards – Metal and Flexible* and *NAIMA Fibrous Glass Duct Construction Standards*. All joints, longitudinal and transverse seams and connections in ductwork shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric systems, liquid sealants or tapes. Closure systems used to seal ductwork *listed and labeled* in accordance with UL 181A shall be marked "181A-P" for pressure-sensitive tape, "181 A-M" for mastic or "181 A-H" for heat-sensitive tape. Closure systems used to seal flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked "181B-FX" for pressure-sensitive tape or "181B0M" for mastic. Duct connections to flanges of air distribution system *equipment* shall be sealed and mechanically fastened. Mechanical fasteners for use with flexible nonmetallic air ducts shall comply with UL 181B and shall be marked "181B-C." Closure systems used to seal metal ductwork shall be installed in accordance with the manufacturer's installation instructions. Unlisted duct tape is not permitted as a sealant on any metal ducts.

Exception: Continuously welded and locking-type longitudinal joints and seams in ducts operating at static pressures less than 2 inches of water column (500 Pa) pressure classification shall not require additional closure systems.

Section M- 901.4.1 entitled, "Gas Log Lighters," is added and reads as follows:

Section M-901.4.1 Gas Log Lighters: Gas log lighters are prohibited.

Section M-901.4.2 entitled, "Gas Logs," is added and reads as follows:

Section M- 901.4.2 Gas Logs: Gas logs shall be listed by a nationally recognized testing laboratory and shall be approved by the Code Official. When a gas log is installed in a fireplace, the fireplace damper shall be permanently removed.

Section M-917.4 entitled, "Commercial Equipment," is added and reads as follows:

Section M-917.4 Commercial Equipment: Commercial cooking equipment, (other than single-family dwelling), and other commercial/industrial gas-fired equipment shall be connected with approved, listed, commercial type, fuel gas hose connectors.

EXCEPTION: Large equipment which cannot easily move or vibrate may be connected with rigid pipe.

Section M-917.5 entitled, "Coupler Valves," is added and reads as follows:

Section M-917.5 Coupler Valves: Gas-fired equipment which is easily or routinely moved, or is equipped with wheels or casters shall be equipped with an approved (quick-disconnect) coupler valve.

Secs. 5-74 - 5-80. Reserved.