

## CHAPTER 14 – HEATING & COOLING – AMENDMENTS

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The ninth edition building code became first effective on October 20, 2017 and, with a shortened concurrency period, the new code came into full force and effect on **January 1, 2018**.

The new, ninth edition code is based on modified versions of the following **2015 International Codes as published by the International Code Council (ICC)**.

- The International Building Code (IBC);
- International Residential Code (IRC);
- International Existing Building Code (IEBC);
- International Mechanical Code (IMC);
- International Energy Conservation Code (IECC);
- International Swimming Pool and Spa Code (ISPSC);
- Portions of the International Fire Code (IFC).

Massachusetts amends these code fairly significantly to accommodate for unique issues in the commonwealth. This package of amendments revises the IRC only. Please see base code amendments for changes to other listed codes that comprise the ninth edition.

Please remember that the Massachusetts amendments posted on-line are **unofficial versions** and are meant for convenience only. Official versions of the Massachusetts amendments may be purchased from the State House Bookstore @ [Shop the Bookstore](#) and any of the I-Codes may be purchased from the International Code Council (ICC) @ [iccsafe.org](http://iccsafe.org).

Additionally, the ICC publishes transition documents that identify changes from the 2009 to the 2015 I-Codes for those who may have interest.

- [International Building Code \(IBC\) Transition](#)
- [International Residential Code \(IRC\) Transition](#).

**Note:** *The residential code is part of the overall building code, which is referred to as 780 CMR. It is considered to be Chapter 51 in the overall code, which is why you will see reference to 780 CMR Chapter 51 in the amendments. The residential code is applicable to detached one- and two-family dwellings, multiple-family dwellings (townhouses) not more than three stories in height above the grade plane and/or their accessory structures not more than three stories in height above grade. See the base code for other building types.*

51.00: continued

**Chapter 14: HEATING AND COOLING EQUIPMENT**

**M1401.6** Add section and associated subsections as follows:

**M1401.6 Used Solid Fuel-burning Appliances.** Used solid fuel-burning appliances that predate the listing requirements set forth in 780 CMR 51.00 may be utilized but the installation of such appliances shall otherwise conform to the requirements of 780 CMR 51.00, as applicable, and such installations shall be inspected by the building official (or fire official in such towns that utilize the fire official for such inspection purposes).

**M1401.6.1 Clearances to Combustibles.** In the absence of listed clearances and floor protection requirements, used solid fuel-burning appliances shall be installed in accordance with the clearances of 780 CMR 51.00.

**M1401.6.2 Floor Protection General.** Floor protection listing requirements for a used appliance shall be met. In the absence of listing requirements, solid fuel-burning appliances shall have floor protection that is noncombustible material applied to the combustible or noncombustible floor area underneath and extending in front, to the sides and to the rear of a heat producing appliance, and have the necessary thermal conductivity to satisfy the floor protection requirements of the appliance. Various "hearth rugs," "mats," "tile board," "hearth board" and similar products sold as floor protectors may be noncombustible but may not satisfy thermal conductivity requirements of this section.

**M1401.6.2.1 Floor Protection Requirements.** Floor protection requirements shall be:

1. four inches (102 mm) of millboard having a thermal conductivity  $k = 0.84$  (Btu)(inch)/(ft<sup>2</sup>)(hour)(°F);
  2. a noncombustible floor protector of the same overall thermal conductivity in (1.);
- or
3. approved by a registered design professional.

**Exception:** If existing floor protection can be demonstrated to have been adequate for a previous installation of a used solid fuel-burning appliance, then such floor protection shall be allowed. If calculations demonstrate that the existing floor protection has a thermal conductivity lower than that set by this section, then the existing floor protection may be maintained.

**M1414.1** Revise the section as follows:

**M1414.1 General.** Fireplace stoves shall be listed, labeled and installed in accordance with the terms of the listing. Fireplace stoves shall be tested in accordance with UL 737. Also *see* Chapter 10 of 780 CMR 51.00 for detailed guidance on solid fuel-burning appliances.

**Chapter 15: EXHAUST SYSTEMS** (no amendments)

**Chapter 16: DUCT SYSTEMS**

**M1601.3** Replace the section as follows:

**M1601.3 Duct Insulation Materials.** Duct insulation shall conform to the following requirements and the requirements of Chapter 11 of 780 CMR 51.00.

**M1601.4** Replace the section as follows:

**M1601.4 Installation.** Duct installation shall comply with Subsections M1601.4.1 through M1601.4.7 and the requirements of Chapter 11 of 780 CMR 51.00.