

51.00: continued

R905.16 Reserved

R906.1 Revise the section as follows:

R906.1 General. The use of above-deck thermal insulation shall be permitted provided such insulation is covered with an approved roof covering and complies with FM 4450 or UL 1256. In roofing and reroofing, the energy conservation requirements of Chapter 11 of 780 CMR 51.00 shall also be satisfied.

R907.1 through R907.5 Reserved

R909.1 through R909.3 Reserved

Chapter 10: CHIMNEYS AND FIREPLACES

R1001.1 Revise the section as follows:

R1001.1 General. Masonry fireplaces shall be constructed in accordance with this section and the applicable provisions of Chapters 3 and 4 of 780 CMR 51.00. Chimneys shall be structurally sound, durable, smoke tight and capable of conveying flue gases to the exterior safely.

Chapter 11: ENERGY EFFICIENCY

N1100.1 Add the following sections as follows:

1100.1 Adoption. Buildings shall be designed and constructed in accordance with the *International Energy Conservation Code - 2018* ("IECC"), as modified by Chapter 11 of 780 CMR 51.00.

Exception: Applications for building permits and related construction and other documents filed through November 7, 2020 may comply either with 780 CMR 51.00: *Chapter 11*, effective November 7, 2020, or with the versions of those provisions in effect immediately prior to February 7, 2020, but not a mix of both. After November 7, 2020, concurrency with the prior version of 780 CMR ends, and all applications for building permits and related construction and other documents shall comply with 780 CMR effective February 7, 2020 only.

Informational Note: Amendments to the IECC contained within 780 CMR 51.00 are identified by the letter "R" followed by the applicable section number.

R401.1 Revise the section as follows:

R401.1 Scope. This chapter regulates the energy efficiency for the design and construction of buildings regulated by 780 CMR. Municipalities which have adopted the Stretch Energy Code shall use the energy efficiency requirements of 780 CMR 110 *Appendix AA*.

Exception: Temporary structures, as regulated by Section 3103, do not need to comply with the building envelope requirements of 780 CMR 51.00.

R103.2 Add the following to this subsection:

- #9. EV Ready Space locations per R404.2.
10. Solar-ready Zone in accordance with Appendix RA

R202 Add and/or revise the following defined terms:

Clean Biomass Heating Systems. Wood-pellet fired central boilers and furnaces where the equipment has a thermal efficiency rating of 80% (higher heating value) or greater; and a particulate matter emissions rating of no more than 0.15 lb/MMBtu PM heat output.

Electric Vehicle. An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current.

Informational Note: defined as in 527 CMR 12.00: *Massachusetts Electrical Code (Amendments)* section 625.2.

51.00: continued

Electric Vehicle Supply Equipment (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors, and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

Informational Note: defined as in 527 CMR 12.00: *Massachusetts Electrical Code (Amendments)* section 625.2.

Electric Vehicle Charging Space ("EV Ready Space"). A designated parking space which is provided with one dedicated 50-ampere branch circuit for EVSE servicing Electric Vehicles.

High Efficiency Lamps. Light-emitting diode (LED) lamps with an efficiency of not less than the following:

1. 60 lumens per watt for lamps over 40 watts;
2. 50 lumens per watt for lamps over 15 watts to 40 watts,
3. 45 lumens per watt for lamps 15 watts or less.

R301 Replace the section with the following:

Massachusetts is a Climate Zone 5A

Delete Table R301.1

R401.1 Replace the section as follows:

R401.1 Scope. This chapter applies to *residential buildings*. Municipalities which have adopted the Stretch Energy Code shall use the energy efficiency requirements of 780 CMR 115.00 *Appendix AA* and 780 CMR 51.00 as applicable.

R401.2 Revise the section as follows:

R401.2 Compliance. Projects shall comply with one of the following:

1. Prescriptive Path. Sections R401 through R404 and R407.
2. Performance Path. An energy rating index ("ERI") approach, or approved alternative energy performance rating method in section R406 and the provisions of sections R401 through R404 indicated as "Mandatory." Qualifying approaches under R406 include the following:
 - a. Certified RESNET HERS rating with Massachusetts amendments.
 - b. Certified Energy Star Homes, Version 3.1.
 - c. Certified Passive house performance method.

R401.3 Add the following to the end of the paragraph:

The Certificate shall list the final HERS index score when applicable.

R402.1.5.1 Add the subsection as follows:

R402.1.5.1 Approved Software for Prescriptive Path Total UA Alternative: The following software is approved for demonstrating Total UA compliance:

REScheck-Web or REScheck for Windows Version 4.6.5 or later, available at <http://www.energycodes.gov/rescheck>

R402.4.1.1 Amend Table by inserting the following sentence at the beginning of the column entitled "INSULATION INSTALLATION CRITERIA" in the row entitled "General requirements":

All insulation shall be installed at Grade I quality in accordance with ICC/RESNET 301.

R403.3.3 Replace the last paragraph with the following:

Post-construction or rough-in testing and verification shall be done by a HERS Rater, HERS Rating Field Inspector, or an applicable BPI Certified Professional. A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official*.