2023 - 4+1 Residential
stretch code overview
in effect Jan 1, 2023

Who Is Mass Save®?

Energy Code Technical Support Program

- Mass Save® is an initiative sponsored by Massachusetts' gas and electric utilities and energy efficiency service providers, including
  - The Berkshire Gas Company
  - Cape Light Compact
  - Eversource Energy
  - Liberty Utilities
  - National Grid
  - Unitil
- The Sponsors of Mass Save work closely with the Massachusetts Department of Energy Resources to provide a wide range of services, incentives, trainings, and information promoting energy efficiency that help residents and businesses manage energy use and related costs.

WE ARE MASS SAVE®:

EVERSOURCE Liberty nationalgrid Unitil

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Energy Code Technical Support Program

Residential Stretch Code

Massachusetts Energy Code Technical Support Program

The 2023 Massachusetts Energy Code

mass save Energy Code Technical Support Program

NEW

- Municipal Opt-In Specialized Stretch Code
- Stretch Code
- Base Code

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Overview of Changes

mass save Energy Code Technical Support Program

1 Jan. 2023

- Maximum HERS Index decrease from 55 to 52
- Large additions and alterations must follow ERI path
- HRV/ERV required
- Specialized Stretch Code available for adoption

1 July 2024

- Maximum HERS Index decrease from 52 to 42

All-electric homes qualify for a three-point increase in maximum HERS Index

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The Stretch Code and Existing Buildings

Energy Code Technical Support Program

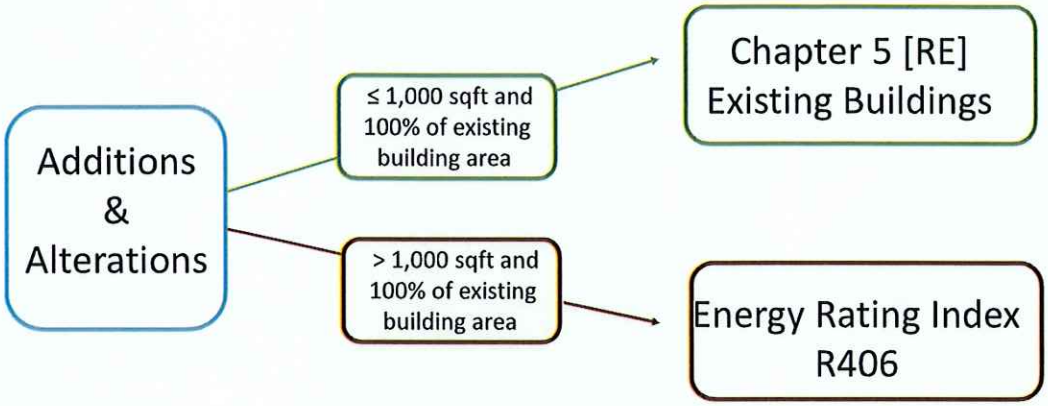

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TABLE R406.5 MAXIMUM ENERGY RATING INDEX

Energy Code Technical Support Program

Clean Energy Application	New Construction Starts January 1, 2023, until June 30, 2024	New Construction Permits After July 1, 2024	Major- Alterations, Additions, or Change of Use. Starts January 1, 2023
Mixed-Fuel Building	52	42	52
Solar Electric Generation*	55	42	55
All-Electric Building	55	45	55
Solar Electric* and All-Electric Building	58	45	58

*Solar Electric Generation = Solar photovoltaic array rated at 4kW or higher

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R 401 Scope Compliance Options for Stretch Code

Energy Code Technical Support Program

New Construction

R401.2.2 Passive House

- The Passive House Building Certification Option requires compliance with Section R405 and R404.4.

R401.2.3 Energy Rating Index

- The Energy Rating Index (ERI) Option requires compliance with Section R406, R403.6 and R404.4.

R401.2.4 Appendix RC Opt-in Stretch Code

- Residential Buildings and dwelling units covered by this chapter may elect to comply with the requirements of IECC Appendix RC and R404 as amended.

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Table 406.2 Requirements - Energy Rating Index

Energy Code Technical Support Program

Formally Listed As Mandatory Requirements

Now in One Table

Section	Title
	General
R401.3	Certificate
	Building Thermal Envelope
R402.1.1	Vapor retarder
R402.2.3	Eave Baffle
R402.2.4.1	Access hatches and doors
R402.2.10.1	Crawl space wall insulation installation
R402.4.1.1	Installation
R402.4.1.2	Testing
	Mechanical
R403.1	Controls
R403.3	Ducts (except R403.3.2, R403.3.3, and R403.3.6)
R403.4	Mechanical system piping insulation
R403.5.1	Heated water circulation and temperature maintenance systems
R403.5.3	Drain water heat recovery units
R403.6.1	**Heat or energy recovery ventilation (HRV/ERV)**
R403.7	Equipment sizing and efficiency rating
R403.8	System serving multiple dwelling units
R403.9	Snow and ice melt systems
R403.10	Energy consumption of pools and spas
R403.11	Portable spas
R403.12	Residential pools and permanent residential spas
	Electrical Power and Lighting Systems
R404.1	Lighting equipment

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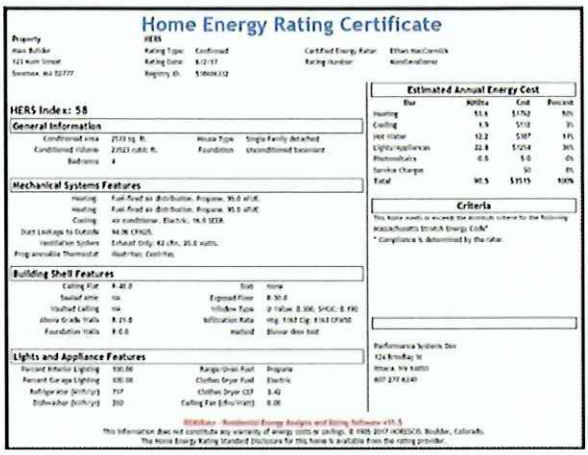
R406.6.2 Documentation for Permit Application

Energy Rating Index

Energy Code Technical Support Program

Prior to the issuance of a building permit:

1. A **HERS compliance report** which includes a BBRS Approved HERS index score of 55 or lower, or otherwise complies via renewable trade-offs
2. A **description of energy features**
3. A **statement** that the rating index score is **"based on plans"**



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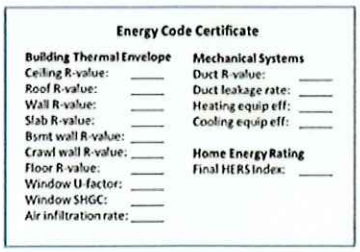
MA Residential Amendments

ERI Documentation – Final

Energy Code Technical Support Program

Prior to the issuance of a certificate of occupancy:

1. A **copy of the final certificate** indicating that the HERS rating index score for each unit is verified to be 55 or less or otherwise complies via renewable trade-offs
2. Completed **HERS rater verified ENERGY STAR Thermal Enclosure Checklist**
3. A **copy of the certificate**, as required by Section R401.3 for each unit listing the final HERS index score of the dwelling unit



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R404.4 Wiring for Electric Vehicle Charging Spaces ("EV Ready Spaces")

Energy Code Technical Support Program

- EV Ready Spaces shall be provided in accordance with Table R404.4
  - The dedicated branch circuit shall be identified as "EV READY" in the service panel or subpanel directory, and the termination location shall be marked as "EV READY".
    - The circuit shall terminate in a NEMA receptacle or a Society of Automotive Engineers (SAE) standard J1772 electrical connector.

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TABLE R404.4 EV READY SPACE REQUIREMENTS

Energy Code Technical Support Program

Type of Building	Number of spaces
1 & 2 Family Dwellings and Townhomes	At Least 1 50 Amp Circuit per Dwelling Unit
All Other R-use Buildings	At least 20% of spaces served with a 40-Amp, 208/240-volt circuit with a minimum capacity of 9.6 kVA.

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Municipal Specialized Opt-in Code

Energy Code Technical Support Program

The Specialized Stretch Code…

- Includes net-zero building performance standards
- Is designed to achieve MA GHG emissions limits
- Requires compliance with the Stretch Code
- Requires pre-wiring for future electrification of space and water heating for homes with fossil fuels
- Is adopted at the local level but is NOT required for participation in Green Communities

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Appendix RB: Solar Ready Provisions – Scope

Energy Code Technical Support Program

- RB101.1 General
  - These provisions shall be applicable for all **R-use buildings** new construction, except additions 1,000 sqft and under.
- Exceptions
  - Buildings and dwelling units
    - Complying with Appendix RC: Sections RC102 (Zero Energy Pathway) or RC105 (Mixed-fuel Pathway)
    - With roof is shaded for more than 70% of daylight hours annually

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APPENDIX RB: SOLAR-READY PROVISIONS

Energy Code Technical Support Program

New in 2021:

Applies to all R-use Buildings 3 stories and below

Shading

- The solar-ready zone shall be set back from any permanently affixed object, such as a chimney on the building that is located south, east, or west of the solar-ready zone
- Setback must be at least 2X the object's height
- Objects may include taller portions of the building, parapets, chimneys, antennas, signage, rooftop equipment, trees and roof plantings

Capped roof penetration sleeve

- A capped roof penetration sleeve shall be provided adjacent to a solar-ready zone located on a roof slope of not greater than 1 in 12.
- Sleeve shall be sized to accommodate the future photovoltaic system conduit, but not less than 1.25" in diameter

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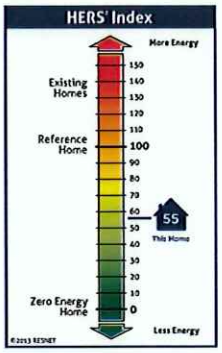
2018 IECC stretch code
Fact sheet

The Massachusetts Stretch Energy Code at a Glance

This document applies to new one- and two-family dwellings, townhouses, and dwelling units in R-use buildings four stories or less. Alterations, renovations, additions or repairs to existing buildings are exempt from the stretch energy code and are only required to comply with IECC Section R501 – R505 for matters relating to energy efficiency. All compliance paths must meet all mandatory requirements found on page two of this document.

Path 1 — Energy Rating Index Compliance Alternative



- A **Home Energy System (HERS) Rating** must be completed by a certified HERS Rater for all new construction
- Homes without onsite renewable energy systems must achieve a **HERS Index score of 55 or less**
- Homes with onsite renewable energy systems are allowed a 5- to 12-point increase in maximum HERS Index depending on the type and number of systems. See Table R406.4 for more detail
- Documentation:
  - Preliminary HERS report, description of energy features and a statement that the index score is" based on plans" for permit
  - Final HERS report, completed ENERGY STAR Thermal Enclosure checklist and copy of certificate required by R401.3 for C.O

Path 2 — ENERGY STAR® Certified New Homes

- The home must receive a certification from the **EPA's ENERGY STAR Certified New Homes Program, Version 3.1.**
- The program requires verification to be performed by a Home Energy System (HERS) Rater
- Documentation:
  - Preliminary HERS report, description of energy features and a statement that the index score is" based on plans" for permit
  - ENERGY STAR Homes certificate, Final HERS Report, completed ENERGY STAR Thermal Enclosure checklist and copy of certificate required by R401.3 for C.O

Path 3 — Passive House

- The home must receive a certification from **PHIUS or PHI**
- The program requires verification by a **Certified Passive House Consultant** using PHIUS or PHI approved software
- Documentation:
  - A WUFI of PHI report demonstrating compliance with PHIUS+2018 (or newer) or PHI requirements, a statement that the report is "based on plans" and evidence of PHIUS or PHI precertification approval
  - An updated WUFI or PHI report demonstrating compliance with PHIUS+2018 (or newer) or PHI requirements, copy of Rater's test results, a statement that report the is "based on 'as-built" conditions

Energy Code Questions? Call **855-757-9717** or email **energycodesma@psdconsulting.com**

mass save
Savings through energy efficiency

All Paths

Mandatory requirements

- Certificate (R401.3)
- Air Leakage (R402.4)
- Maximum fenestration U-factor and SHGC (R402.5)
- Controls (R403.1)
- Heat pump supplementary heat (R403.1.2)
- Duct sealing (R403.3.2)
- Duct testing (R403.3.3)
- Building cavities (R403.3.5)
- Mechanical system pipe insulation (R403.4)
- Heated water circulation and temperature maintenance system (R403.5.1)
- Hot water pipe insulation (R403.5.3) (Required for Path 1 only)
- Mechanical ventilation (R403.6)
- Equipment sizing and efficiency rating (R403.7)
- System serving multiple dwelling units (R403.8)
- Snow melt and ice system controls (R403.9)
- Pools and permanent spas (R403.10)
- Portable spas (R403.11)
- Lighting equipment (404.1)

Learn More at **MassSave.com/EnergyCode**

Energy Code Questions? Call **855-757-9717** or email **energycodesma@psdconsulting.com**

mass save
Savings through energy efficiency

2018 updated - MA Residential Code checklist

LOW-RISE RESIDENTIAL NEW CONSTRUCTION
Massachusetts Energy Code 9th Edition
Permit Application Checklist*

mass save — Energy Code Technical Support Program

This checklist guides permit applicants through the main requirements of the energy code prior to permit application

Applicant Name: _____ Applicant Phone: _____

Project Address: _____ Date: _____

Indicate which Compliance Path is being used (R401.2)

☐ Path 1 (Prescriptive) ☐ Path 2 (ERI and Stretch Code) ☐ Mandatory Requirements (All projects)

Path 1. Prescriptive: Sections R401 – R404 & R407: Indicate page number in plans & specifications where details are found: _____

	Windows & Doors	Skylight	Ceiling	Wood frame wall	Mass wall	Floor	Basement wall	Slab insulation / depth	Crawlspace Wall
	Maximum value		Minimum value						
☐ **Option A:** R-value (R402.1.2)	U-0.30	U-0.55	R-49	R-20 or R-13+5	R-13 / R-17	R-30	R-15 / R-19	R-10 / 2 ft.	R-15 / R-19
	Maximum value								
☐ **Option B:** Equivalent U-factor (R402.1.4): Must include calculations	U-0.30	U-0.55	U-0.026	U-0.060	U-0.082	U-0.033	U-0.050	U-0.1 / 2 ft.	U-0.055

☐ **Option C:** Total UA alternative (R402.1.5 plus MA amendment R402.1.5.1)
- ☐ RES*check*™ version 4.6.5 or later
- ☐ RES*check-Web*™

☐ **Additional Efficiency Packages** Projects must comply with one of the following options (R407.1)
- ☐ 1. More Efficient HVAC performance (R407.2)
- ☐ 2. Heat or energy recovery ventilation system (R403.6.1)
- ☐ 3. High efficiency water heating or solar thermal hot water heating (R407.3)

Path 2. Energy rating index (ERI) and Approved Alternatives (R406): MANDATORY FOR STRETCH CODE COMPLIANCE
Documentation must be submitted prior to issuing building permit. Select one method below.

☐ **A. RESNET HERS rating with MA amendments: Submittal must include:** Preliminary HERS rating with Index score less than or equal to Table R406.4, description of energy features, and a statement that the rating index score is "based on plans".

Table R406.4

On-site Renewable energy source	Maximum HERS Index	
	New construction	Whole house renovations; additions
None	55	65
DHW	57	67
Solar Electric Generation	60	70
Clean Space Heating	60	70
Solar Electric & DHW	62	72
Solar Electric & Clean Space Heating	65	75
Solar Electric & Clean Space Heating & DHW	67	77

☐ **B. Certified ENERGY STAR® homes, version 3.1 certified (R406.1.1): Submittal must include:** Preliminary HERS rating, description of energy features, and a statement that the rating index score is "based on plans".

☐ **C. Passive House Institute US or Passive House Institute certification: Submittal must include:** WUFI or PHPP compliance report which demonstrates compliance with PHIUS+2018 (or newer) or PHI performance requirements, a statement that the WUFI or PHPP results are "based on plans", and evidence of PHIUS or PHI precertification approval.

General Mandatory Requirements: APPLIES TO ALL PROJECTS

☐ **Air sealing and insulation to be installed per Table R402.4.1.1**

☐ **Blower door test to be completed (R402.4.1.2)** Building envelope leakage must be ≤ 3 ACH50

☐ **Ducts to be pressure tested** by a HERS Rater, HERS RFI, or BPI Certified Pro. Exception: All ducts/air handlers are inside (R403.3.3.)

☐ **Boiler temperature setback control indicated in specifications (R403.2) on page #** _____

☐ **Mechanical ventilation rate (R403.6):** _____ CFM

Method by which ventilation rate was calculated (select one):
- ☐ 1. Equation 4-1 (R406.3)
- ☐ 2. ENERGY STAR® Homes v3.1
- ☐ 3. ASHRAE 62.2-2013
- ☐ 4. MA amendment formula

☐ **Heating and cooling load calculations (Manual J) and Equipment Selection report (Manual S) to be submitted (R403.7)**

☐ **Solar Ready Zone indicated in construction documents on page #** _____ **(RA101.1 through 103.6 and RA103.8)** Note: This requirement applies only to new construction of one- and two-family dwellings and townhouses, excluding additions, and has the following exceptions:
1. less than 600 square feet of roof area is oriented between 110° and 270° of true north;
2. buildings with a permanently installed on-site renewable energy system;
3. buildings with a solar-ready zone that is shaded for more than 70 percent of daylight hours annually.

Massachusetts Energy Code
Residential New Construction Permit Application and Plan Review Checklist

Version 1.0

*This page is to be completed by the permit applicant and submitted to the local building department with other required permit application documents.

Applicant Name: _____ Applicant Phone: _____

Project Address: _____ Date: _____

Select a compliance path (R401.2)

☐ Path 1 (Prescriptive)	☐ Path 2 (ERI and Stretch Code)	✓ Mandatory Requirements (All projects)

Path 1. Prescriptive: Sections R401 – R404 & R407: Indicate page number in plans & specifications where details are found: _____

	Windows & Doors	Skylights	Ceilings	Wood frame walls	Mass walls	Floors	Basement walls	Slab insulation / depth	Crawlspace walls
☐ **Option A:** R-value (R402.1.2)	Maximum value		Minimum value						
	U-0.30	U-0.55	R-49	R-20 or R-13+5	R-13 / R-17	R-30	R-15 / R-19	R-10 / 2 ft.	R-15 / R-19
☐ **Option B:** Equivalent U-factor (R402.1.4): Must include calculations	Maximum value								
	U-0.30	U-0.55	U-0.026	U-0.060	U-0.082	U-0.033	U-0.050	U-0.1 / 2 ft.	U-0.055

☐ **Option C:** Total UA alternative (R402.1.5 plus MA amendment R402.1.5.1)
- ☐ RES*check*™ version 4.6.5 or later
- ☐ RES*check-Web*™

\+ **Additional Efficiency Packages (R407.1)** All prescriptive projects must comply with one of the options to the right. Select one.
- ☐ More Efficient HVAC performance (R407.2)
- ☐ Heat or energy recovery ventilation system (R403.6.1)
- ☐ High efficiency water heating or solar thermal hot water heating (R407.3)

Path 2. Energy rating index (ERI) and Approved Alternatives (R406): **MANDATORY FOR STRETCH CODE** (optional path in non-stretch communities). Documentation must be submitted prior to issuing building permit. Select one method below.

☐ **Option A. RESNET HERS rating with MA amendments: Submittal must include:** Preliminary HERS rating with Index score less than or equal to Table R406.4, description of energy features, and a statement that the rating index score is "based on plans".

Table R406.4

Maximum HERS Index	
New construction	**Whole house renovations; additions**
55	**65**

Note: Higher HERS Index scores are permitted for projects that include renewable energy generation. See MA 780 CMR Chapter 11 Table R406.4

☐ **Option B. Certified ENERGY STAR® homes, version 3.1 (R406.1.1): Submittal must include:** Preliminary HERS rating, description of energy features, and a statement that the rating index score is "based on plans".

☐ **Option C. Passive House Institute US or Passive House Institute certification: Submittal must include:** WUFI or PHPP compliance report which demonstrates compliance with PHIUS+2018 (or newer) or PHI performance requirements, a statement that the WUFI or PHPP results are "based on plans", and evidence of PHIUS or PHI precertification approval.

General Mandatory Requirements (ALL PROJECTS):

- ☐ **Air sealing and insulation to be installed per Table R402.4.1.1**
- ☐ **Blower door test to be completed (R402.4.1.2)** Building envelope leakage must be ≤ 3 ACH50
- ☐ **Ducts to be pressure tested** by a HERS Rater, HERS RFI, or BPI Certified Pro. Exception: All ducts/air handlers are inside (R403.3.3.)
- ☐ **Boiler temperature setback control indicated in specifications (R403.2) on page #** _____
- ☐ **Mechanical ventilation rate (R403.6):** _____ CFM — Method by which ventilation rate was calculated (select one):
  - ☐ 1. Equation 4-1 (R406.3)
  - ☐ 2. ENERGY STAR® Homes v3.1
  - ☐ 3. ASHRAE 62.2-2013
  - ☐ 4. MA amendment formula
- ☐ **Heating and cooling load calculations (Manual J) and Equipment Selection report (Manual S) to be submitted (R403.7)**
- ☐ **Solar Ready Zone indicated in construction documents on page #** _____ **(RA101.1 through 103.6 and RA103.8)** Note: This requirement applies only to new construction of one- and two-family dwellings and townhouses, excluding additions, and has the following exceptions:
  1. less than 600 square feet of roof area is oriented between 110° and 270° of true north;
  2. buildings with a permanently installed on-site renewable energy system;
  3. buildings with a solar-ready zone that is shaded for more than 70 percent of daylight hours annually.

Massachusetts Energy Code
Residential New Construction Inspection and Final Documentation Checklist

*This page may be used by the local building department to assist in performing energy code inspections and collecting required documentation.

Applicant Name _____ Applicant Phone _____

Project Address _____ Permit number _____

Reviewed by: _____ Date _____

Path 1. Prescriptive: Sections R401 – R404 & R407 (Not applicable to Stretch Code Communities)									
	Windows & Doors	Skylights	Ceilings	Wood frame walls	Mass walls	Floors	Basement walls	Slab R-value/ depth	Crawlspace walls
	Maximum value		Minimum value						
☐ **Option A.** R-Value	U-0.30	U-0.55	R-49	R-20 or R-13+5	R-13 / R-17	R-30	R-15 / R-19	R-10 / 2 ft.	R-15 / R-19
☐ **Option B.** Equivalent U-factor	If Option 1B was selected on the reverse side of this form, the installed materials match provided calculations								
☐ **Option C.** Total UA Alternative	If Option 1C was selected on the reverse side of this form, installed values match the RES*check* certificate								
☐ **Additional Efficiency Packages**	The additional efficiency package selected on the reverse side of this form has been installed								

Path 2. Energy rating index (ERI) and Approved Alternatives (R406): **MANDATORY FOR STRETCH CODE** (optional path in non-stretch communities). Verify the permit applicant has submitted documentation for one of the following options.	
☐ **Option A.** Certified RESNET HERS rating with MA amendments	• Final HERS certificate indicating HERS rating index score complying with Table R406.4 • HERS rater verified ENERGY STAR Thermal Enclosure Checklist • Copy of certificate required by R401.3 listing the final HERS Index score
☐ **Option B.** Certified ENERGY STAR® Homes, Version 3.1	• Final ENERGY STAR® Homes certificate • Certified final HERS rating • ENERGY STAR® Thermal Enclosure System Checklist signed by Rater • Copy of certificate required by R401.3 listing the final HERS Index score
☐ **Option C.** Certified Passive House (or PHIUS) performance method	• Updated WUFI or PHPP compliance report demonstrating compliance with PHIUS+2018 (or newer) or PHI performance requirements • Passive House Rater's test results • Statement that the WUFI or PHPP results are "based on 'as built' conditions, incorporating the relevant test results and documented changes to equipment, materials, and assemblies that impact performance"

General Mandatory Requirements (ALL PROJECTS). Verify the following measures have been installed and testing documentation has been received.
☐ **1. Air barrier - Mandatory (Table R402.4.1.1)** – Continuous air barrier is properly installed, and connections between components are properly sealed
☐ **2. Air leakage testing - Mandatory (R402.4.1.2)** – Blower door test verification form received. Leakage is not over 3 ACH50
☐ **3. Duct sealing - Mandatory (R403.3.2) – All ducts, air handlers and filter boxes are sealed**
☐ **4. Duct testing and leakage (R403.3.3 and .4)** – Duct leakage test verification form received. *Exception: All ducts and air handlers are within the building envelope.* Leakage is not over **4 cubic ft. per 100 sq. ft.** of conditioned floor area. (3 cubic ft. if test was performed at rough-in and without air handler installed) *NOTE: Leakage may be higher if house complies using the ERI Path.*
☐ **5. Duct insulation (R403.3.1)** – Space conditioning ductwork in vented attics must be R-8 (or R-6 if <3" diameter). Space conditioning ductwork in all other unconditioned spaces must be R-6. (R-4.2 if <3" diameter.)
☐ **6. Building framing cavities are not used as ducts or plenums - Mandatory (R403.3.5)**
☐ **7. Hot water boiler outdoor temperature setback - Mandatory (R403.2)** – Installation verified
☐ **8. Mechanical ventilation - Mandatory (R403.6.2 as amended)** – Airflow testing documentation collected from HERS rater, HERS Inspector, or BPI Certified Professional.
☐ **9. Lighting - Mandatory (R404.1)** – Minimum 90% of the permanently installed lighting fixtures must contain only high-efficacy lamps (e.g., fluorescent or LED)
☐ **10. Certificate - Mandatory (R401.3)** – Permanent certificate listing insulation R-values, fenestration U-factors, duct R-values, blower door and duct leakage test results, and final HERS Index Score (when applicable), is posted on a wall in the space where the heating system is located, utility room, or other approved location inside the building

Notes:

2018 Residential Energy Code Flow chart

Residential Energy Code Compliance Paths

Non Stretch Code Communities

2015 IRC Chapter 11 as amended by 780 CMR 51.00[1]

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Savings through energy efficiency

Energy Code Questions?
Email: energycodesma@psdconsulting.com
Call: 855-757-9717 (toll free)
Visit: www.masssave.com/energycode

Start Here

Is your building type listed below?

- One- and two-family dwellings and townhouses
- Groups R-2, R-3, and R-4 three stories or less

Yes | **No** See 2018 IECC [CE]

Is it new construction[3]?

Yes | **No** See IECC [RE] Ch. 5 Existing Buildings

Mandatory requirements:

- Certificate (N1101.3)
- Air leakage (N1102.4)
- Max. fenestration U-factor & SHGC (N1102.5)
- Controls (N1103.1)
- Heat pump supplementary heat (N1103.1.2)
- Duct sealing (N1103.3.2)
- Duct testing (N1103.3.3)
- Building cavities (N1103.3.5)
- Mechanical system pipe insulation (N1103.4)
- Heated water circulation and temperature maintenance systems (N1103.5.1)
- Mechanical ventilation (N1103.6)
- Equipment sizing and efficiency rating (N1103.7)
- Systems serving multiple dwelling units (N1103.8)
- Snow melt and ice system controls (N1103.9)
- Pools and permanent spas (N1103.10)
- Portable spas (N1103.11)
- Lighting equipment (N1104.1)

+

- One option to the right

Prescriptive

- Building Thermal Envelope (N1102)
- Systems (N1103)
- Electric Power & Lighting (N1104)
- Additional Efficiency Packages (N1107)

Prescriptive with Envelope Tradeoffs

- Same as above + Envelope tradeoffs in **RES*check***

Energy Rating Index[2]

- HERS Index

  or
- ENERGY STAR v3.1

  or
- Passive House Certified

[1] The provisions of IECC Chapter 4 [RE] are equivalent to IRC Chapter 11.
[2] See page 2 for more detail on each Energy Rating Index option.
[3] Additions, alterations, repairs, and change of occupancy or use shall comply with IECC Chapter 5 Existing Buildings