## MA Commercial Plan Review Checklist Stretch Code and Municipal Opt-In Specialized Code 2023 Compliance Paths (to be completed before building permit is issued)



PROJECT INFORMATION	
Applicant Name:	Applicant Phone:
Project Address:	Date:
Permit Number:	
Project type: 🗌 New construct	ion 🗌 Addition 🔲 Alteration 🗌 Changes of Occupancy or Use
SELECT CODE VERSION	
🗌 Base Code 🛛 🗌 Stretch	Code 🗌 Municipal Opt-in Specialized Code
SELECT COMPLIANCE PATH	l (C401.2)
STRETCH ENERGY CODE PATH	
Prescriptive Path	
Targeted Performance Pat	th
Relative Performance Path	1
Dessive Hauss Dath	
Passive House Path	
HERS Path	
MUNICIPAL OPT-IN SPECIALIZ	ED CODE PATHS (CMR 225, APPENDIX CC)
Zero Energy Path	
All-Electric Path	
Mixed Fuel Path	
STRETCH ENERGY CODE PATH	
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Stretch Code Compliance Path	
Meets C401.3, C402 through C406, and C408	Attach COM <i>check</i> Envelope, Lighting, and Mechanical Compliance Certificates; and a Plan Review Inspection Checklist (Code = 2021
	IECC)
Section C406 - Must achieve	C406.2 More Efficient HVAC Performance
15 credits in the following categories (# of credits for	C406.3 Reduced LPD
each category depends on	C406.4 Enhanced Lighting Controls
occupancy type):	C406.5 On-site Supply of Renewable Energy
	C406.6 DOAS
	C406.7 High Efficiency Service Water Heating
	C406.8 Enhanced Envelope Performance
	C406.9 Reduced Air Infiltration

<sup>1</sup> For more information about which compliance path to follow, please see the accompanying flowchart for 225 CMR 23: Massachusetts Commercial Stretch Energy Code

	C406.10 E	nergy Monitoring System (wher	n not required by C405.12)		
	_	C406.11 FDD system (when not required by C403.2.3)			
		C406.12 Efficient Kitchen Equipment			
C406.13 Type IV Heavy Timber Construction					
Stretch Code Compliance Pat					
The building's heating TED cooling TEDI are less than the values in Table C407.1	or equal to	Meets C401.3, C402 through C406, C407.1, C408, and select sections of ANSI/ASHRAE/IESNA 90.1-2019 Appendix G as described in Section C407.1			
Attach COM <i>check</i> Envelope, Lighting, and Mechanical Compliance Certificates; and a Plan Review Inspection Checklist (Code = 2021 IECC)		Performance Modeling Report with the items described in ANSI/ASHRAE/IESNA 90.1-2019 Appendix G Section G1.3.2 Parts b, g, h, i, j, k, l, n, o, and q, and Section G1.3.3			
Section C406 - Must achieve 15 credits in the following categories (# of credits for each category depends on occupancy type):	□ C406.3 Re □ C406.4 Er □ C406.5 O □ C406.6 D □ C406.7 Hi □ C406.8 Er □ C406.9 Re □ C406.10 E □ C406.11 FI □ C406.12 E	<ul> <li>C406.2 More Efficient HVAC Performance</li> <li>C406.3 Reduced LPD</li> <li>C406.4 Enhanced Lighting Controls</li> <li>C406.5 On-site Supply of Renewable Energy</li> <li>C406.6 DOAS</li> <li>C406.7 High Efficiency Service Water Heating</li> <li>C406.8 Enhanced Envelope Performance</li> <li>C406.9 Reduced Air Infiltration</li> <li>C406.10 Energy Monitoring System (when not required by C405.12)</li> <li>C406.11 FDD system (when not required by C403.2.3)</li> <li>C406.12 Efficient Kitchen Equipment</li> <li>C406.13 Type IV Heavy Timber Construction</li> </ul>			
Stretch Code Compliance Patl	h 3: Relative Pe	rformance (C407 2)			
Stretch Code Compliance Path 3: Relative Performance (C407.2)Meets C401.3, C402.1.5, C402.2.8, C402.3, C402.4, C402.5, C402.6, C402.7, C403.5, C403.7, C405, C406, C407.2, C408, and ANSI/ASHRAE/IESNA 90.1-2019 using the Appendix G compliance pathway as modified in Section C407.2Submit mechanical equipment schedules for all air handling equipment with the total design outdoor airflow for each unit					
An airflow riser diagram with:					
<ul> <li>The complete project boundary</li> <li>All supply, exhaust, and return air systems serving the space</li> <li>A summary of the total outdoor air supplied</li> <li>The total gross square footage served by the ventilation system</li> <li>The overall flow rate per area in cfm/ft<sup>2</sup></li> </ul>					
Is the building a high glazed wall system (where more than 50% of the above grade wall area of the building thermal envelope is glazed)?					
If <b>Yes</b> : Requirements found be met	d in C402.1.5.2 r	nust If <b>No</b> : Requirement met			

ENERGY CODE SUPPORT HOTLINE: 855-757-9717

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Section C406 - Must achieve	C406.2 More Efficient HVAC Performance
15 credits in the following	C406.3 Reduced LPD
categories (# of credits for each category depends on	C406.4 Enhanced Lighting Controls
occupancy type):	C406.5 On-site Supply of Renewable Energy
	C406.6 DOAS
	C406.7 High Efficiency Service Water Heating
	C406.8 Enhanced Envelope Performance
	C406.9 Reduced Air Infiltration
	C406.10 Energy Monitoring System (when not required by C405.12)
	C406.11 FDD system (when not required by C403.2.3)
	C406.12 Efficient Kitchen Equipment
	C406.13 Type IV Heavy Timber Construction

#### Stretch Code Compliance Path 4: Passive House Compliance (C407.3)

	Meets	C401.3,	C402.3,	C405,	C407.3	and	C408
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Phius or Passive House Institute (PHI) certification in accordance with C407.3

- A Phius 2021 (or newer) verification report or a PHPP compliance report which demonstrates project compliance with PHIUS 2021 or PHI performance requirements
- A statement from the Certified Passive House Consultant that the Phius 2021 verification report or PHPP results are "based on plans"
- Evidence of project registration from Phius or PHI or a design certification letter from Phius or from a Certified Passive House Certifier

### Stretch Code Compliance Path 5: HERS Index for Multifamily Buildings (C407.4)

Meets C401.3, C402.3, C405, C407.4 and C408

HERS Index for Multifamily buildings in accordance with C407.4

- A HERS compliance report with a proposed HERS Index less than or equal to the appropriate value in Table C407.4
- A description of the unit's energy features
- A statement that the rating index score is "based on plans"
- Additional documentation requirements found in C407.4.2.1

### MUNICIPAL OPT-IN SPECIALIZED CODE COMPLIANCE PATHS

For New R-Use Buildings:
Dwelling units over 4,000 ft <sup>2</sup> in mixed fuel buildings
Meet the requirements of CC101.3(1) and CC103 OR RE Section RC102
Greater than 12,000 ft <sup>2</sup> in conditioned floor area
Meet the requirements outlined in Table CC101.2
Less than or equal to 12,000 ft <sup>2</sup> in conditioned floor area
Meet the requirements outlined in the Residential Appendix RC

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Municipal Opt-In Specialized Code Compliance Path 1: Zero Energy (CC103) *Mixed Fuel Buildings using this path shall comply with CC105, in addition to requirements below					
	Meets the requirements of C401.2.1 or C401.2.2, as well as the EV ready space requirements found in C405.13	Meets CC103 and demonstrates that they are Zero Energy Buildings in accordance with Equation CC-1			
Мш	nicipal Opt-In Specialized Code Compliance Path 2: All-Ele	tric ((	CC104)		
	Meets the requirements of C401.2.1 or C401.2.2, as well as	-	•	mo as stratch codo	
	the EV ready space requirements found in C405.13	Meets CC104 (same as stretch code requirements)			
			20105		
	nicipal Opt-In Specialized Code Compliance Path 3: Mixed   en not complying with the Zero Energy pathway	-uel (C	CC105)		
	Meets the requirements of C401.2.1 or C401.2.2, as well as the EV ready space Meets CC105 requirements found in C405.13				
Meets CC106, which requires wiring for future electrification in water heating, cooking, clothes drying equipment, and other combustion equipment					
Construction documents showing electric HVAC retrofit design prepared by the HVAC engineer in accordance with CC106.1.6.1, including:					
	Future replacement of combustion equipment-based HVA	C syste	em with an equiv	valent all electric	
	Combustion equipment to be replaced				
	Future electric equipment				
Supporting electrical, structural, and architectural infrastructure to be installed during building construction					
	Space allotments for future equipment				

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