## 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:				
<del></del>	ion Addition Alteration Changes of Occupancy or Use			
Base Code Stretch	Code			
SELECT COMPLIANCE PATH	I (C401.2)			
STRETCH ENERGY CODE PATH	IS (CMR 225) <sup>1</sup>			
Prescriptive Path				
☐ Targeted Performance Par	th			
Relative Performance Path				
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				
REQUIREMENTS FOR CHOSI	EN COMPLIANCE PATH			
STRETCH ENERGY CODE PATH	<u>IS</u>			
Stretch Code Compliance Path	n 1: Prescriptive Compliance			
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 = 2023 Massachusetts Stretch Energy Code)			
Section C406 - Must achieve 15 credits in the following categories (# of credits for each category depends on occupancy type):	<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>			

<sup>&</sup>lt;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

☐ C406.14 Low GWP (☐ C406.15 Net Zero G				
Stretch Code Compliance Path 2: Targeted Performance	o (C4071)			
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	The building's heating TEDI and cooling TEDI are less than or equal to the values in Table C407.1.1.5			
Attach COMcheck Lighting and Mechanical Compliance Certificates; and a Plan Review Inspection Checklist (Code = 2023 Massachusetts Stretch Energy Code)	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			
Backstop compliance and thermal bridge derating calculations performed in accordance with latest edition of Massachusetts Stretch Energy Code Technical Guidance, Attachment A, Envelope Performance and Thermal Bridge Derating	Completed calculations performed in accordance with latest edition of Massachusetts Stretch Energy Code Technical Guidance, Attachment C, Targeted Performance Simulation Guidelines			
15 credits in the following categories (# of credits for each category depends on occupancy type):  C406.3 Reduced LP C406.4 Enhanced Li C406.5 On-site Support C406.6 DOAS  C406.7 High Efficien C406.9 Reduced Air C406.10 Energy Mor C406.11 FDD system C406.12 Efficient Kit	ighting Controls oly of Renewable Energy ncy Service Water Heating nvelope Performance r Infiltration nitoring System (when not required by C405.12) n (when not required by C403.2.3) schen Equipment avy Timber Construction Concrete Mix			
Stretch Code Compliance Path 3: Relative Performance	(C407.2)			
Meets C401.3, C402.1.5, C402.2.8, C402.3, C402.4, C C402.6, C402.7, C403.5, C403.7, C405.2.4, C405.13, C407.2, C408, and ANSI/ASHRAE/IESNA 90.1-2019 the Appendix G compliance pathway as modified in Section C407.2	c406, schedules for all air handling using equipment with the total design			
Backstop compliance and thermal bridge derating calculations performed in accordance with latest ed of Massachusetts Stretch Energy Code Technical Guidance, Attachment A, Envelope Performance and Thermal Bridge Derating	Massachusetts Stretch Energy Code			
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/ft²</li> </ul>				

**ENERGY CODE SUPPORT HOTLINE: 855-757-9717** 

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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 in C402.1.5.2 must be met		If <b>No</b> : Requirements found in C402.1.5.1 must be met		
Section C406 – Must achieve 15 credits in the following categories (# of credits for each category depends on occupancy type):	C406.3 Reduced C406.4 Enhance C406.5 On-site S C406.6 DOAS C406.7 High Effi C406.8 Enhance C406.9 Reduced C406.10 Energy C406.11 FDD sys C406.12 Efficient C406.13 Type IV C406.14 Low GV	d Lighting Controls Supply of Renewable Energy  ciency Service Water Heating d Envelope Performance l Air Infiltration  Monitoring System (when not required by C405.12) tem (when not required by C403.2.3) t Kitchen Equipment Heavy Timber Construction		
Stretch Code Compliance Pat	th 4: Passive House Co	mpliance (C407.3)		
Meets C401.3, C402.3, C4	.05, C407.3 and C408			
Phius or Passive House Institute (PHI) certification in accordance with C407.3				
A Passive House Verification report with results from the approved Passive House certification software which demonstrates project compliance with Phius CORE 2021 (or newer), or Phius ZERO 2021 (or newer) performance requirements; or A PHPP (Passive House Planning Package) compliance report with results from the approved Passive House certification software which demonstrates project compliance with current PHI performance requirements				
A statement from the Certified Passive House Consultant or the Certified Passive House Designer that the verification report results or Passive House Certification software results and compliance report accurately reflect the plans submitted				
		om a PHI-accredited Certifier; or a design certificate surance letter from a PHI-accredited Certifier		
Stretch Code Compliance Par		ultifamily Buildings (C407.4)		
Meets C401.3, C402.3, C4	.05, C407.4 and C408			
HERS Index for Multifamily bu	uildings in accordance v	vith C407.4		
A HERS compliance repo Table C407.4	rt with a proposed HEF	RS Index less than or equal to the appropriate value in		
	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				

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## 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 ft² 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				
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				
Municipal Opt-In Specialized Code Compliance Path 2: All-Electric (CC104)				
☐ Meets the requirements of C401.2.1 or C401.2.2, as well as the EV ready space requirements found in C405.13 ☐ Meets CC104 (same as stretch code requirements)				
Municipal Opt-In Specialized Code Compliance Path 3: Mixed Fuel (CC105)  *When not complying with the Zero Energy pathway				
☐ Meets the requirements of C401.2.1 or C401.2.2, as well as the EV ready space requirements found in C405.13 ☐ Meets CC105				
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 HVAC system with an equivalent all electric system				
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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NOTES

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