## 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.													
Ар	Applicant Name:						Applicant Phone:						
Project Address:					Date:								
Select a compliance path (R401.2)													
	Path 1 (Prescriptive)	and Stretc	d 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) Option B:	Maximum value			R-20 or	R-13 /		Minimum	value R-15 /	СОРИ	D 45 /		
		U-0.30	U-0.55	R-49	R-13+5	R-1	7	R-30	R-19	R-10/2 ft.	R-15 / R-19		
	Equivalent U-factor (R402.1.4): Must include calculations	U-0.30	U-0.55	U-0.026	U-0.060	Vaximum value U-0.082 U-0.033			U-0.050	U-0.1 / 2 ft.	U-0.055		
П	mast mistade calculations												
☐ Option C: Total UA alternative (R402.1.5 plus MA amendment R402.1.5.1)  □ REScheck™ version 4.6.5 or later □ REScheck-Web™													
_	Additional Efficiency Packages	(R407.1)			lore Efficient I								
T	All prescriptive projects must comoptions to the right. Select one.	ipiy with on	e of the		eat or energy						(D.407.0)		
Path 2 Energy rating index (ERI) and Anneyed Alternatives (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 or equal to Table R406.4, description	with MA a	mendmer	its: Submit	tal must incl	ude: P	relin	ninary HE	RS rating w	rith Index score	e less than		
			gy roaturot	Table R		ie rauri	y me	Jex Score	is based o	n plans".			
MA.		New const		aximum HE	RS Index ble house rer			- dall4!					
Note: I		55				65							
Note. I	Higher HERS Index scores are perm												
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 evide	ence of PH	IUS or PHI	precertificatio	n appr	ovai	quiremer	its, a statem	ent that the W	UFI or		
	al Mandatory Requirements (AL												
-	Air sealing and insulation to be												
-	Blower door test to be complete												
H	Ducts to be pressure tested by a							: All ducts	s/air handler	s are inside (R	(403.3.3.)		
	Boiler temperature setback cont	roi indicat	ea in spec	ifications	(R403.2) on p	age #	-		Equation 4	1 (F) 40C ()			
_	Marka I at a mark a financia	3.6): CFM			Method by wh				1. Equation 4-1 (R406.3) 2. ENERGY STAR® Homes v3.1				
ш	Mechanical ventilation rate (R40				ventilation rate		њ).		B. 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									e: This			
	exceptions.												
	<ol> <li>less than 600 square feet of roof area is oriented between 110° and 270° of true north;</li> <li>buildings with a permanently installed on-site renewable energy system;</li> </ol>												
3. buildings with a solar-ready zone that is shaded for more than 70 percent of daylight hours annually.													

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Ap	Applicant Name: Applicant Phone:											
Pro	Project Address:					Date:						
Select a compliance path (R401.2)												
	Path 1 (Prescriptive)	h 2 (ERI a	I and Stretch Code) ✓			1	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:	Maximu	m value		D 00	R-13 / R-17		Minimum		исри,		
	R-value (R402.1.2)	U-0.30	U-0.55	R-49	R-20 or R-13+5			R-30	R-15 / R-19	R-10 / 2 ft.	R-15 / R-19	
	Option B: Equivalent U-factor (R402.1.4):					U-0.082						
	Must include calculations	U-0.30	U-0.55	U-0.026	U-0.060			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) ☐ REScheck™ version 4.6.5 or later ☐ REScheck-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											
		M	Ma	aximum HE								
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.											
	al Mandatory Requirements (AL		-									
H	Air sealing and insulation to be											
	Blower door test to be complete											
ö	Ducts to be pressure tested by a	rol indicat	er, HERS	RFI, or BPI	Certified Pro.	Excep	otion	: All ducts	s/air handler	s are inside (F	(403.3.3.)	
	Boiler temperature setback control indicated in specifications (R403.2) on page #											
	Mechanical ventilation rate (R40	2 6).			Method by wh				P. ENERGY STAR® Homes v3.1			
	The state of the s	3.6): CFM			ventilation rate calculated (se			3.	ASHRAE 62			
	4. MA amendment formula											
	College 1 7 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2											
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	or buildings with a solar-ready zone that is snaded for more than 70 percent of daylight hours annually.											