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.

Anni	applicant Name: Applicant Phone:										
•	Project Address: Date:										
Sele	ct a compliance path (R40	1.2)									
	Path 1 (Prescriptive)	☐ Path	n 2 (ERI a	and Stretch	n Code)	✓	Manda	tory Requi	rements (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:		ım value İ		R-20 or	R-13 /	Minimum	value R-15 /		R-15 /	
	R-value (R402.1.2)	U-0.30	U-0.55	R-49	R-13+5	R-17	R-30	R-19	R-10 / 2 ft.	R-19	
	Option B: Equivalent U-factor (R402.1.4):					/laximum v					
]	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) □ REScheck™ version 4.6.5 or later □ REScheck-Web™ □ RE										
	Additional Efficiency Packages	(R407.1)		■ M	ore Efficient I	HVAC per	formance	(R407.2)			
+	All prescriptive projects must con		ne of the	Пн	eat or energy	recovery	ventilatio	n system (R	403.6.1)		
	options to the right. Select one. 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											
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 Instit										
	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.									VUFIOI	
Gener	al Mandatory Requirements (A	LL PROJE	ECTS):								
	Air sealing and insulation to be			R402.4.1.1							
	Blower door test to be complet				e leakage mu	st 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 (R4	·03.6):		CFM	Method by w ventilation ra calculated (s	te was	2 n:3	2. ENERGY 3. ASHRAE	4-1 (R406.3) STAR® Homes 62.2-2013 dment formula	v3.1	
	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 a used by the local building department to assist in performing operations and singular department to assist in performing operations and singular department to assist in performing operations and singular department to assist in performing operations.

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		Wood frame walls	Mass walls	Floors	Basement walls	Slab R-value/	Crawlspace		
	Maximum value			Ifame wans wans		Minimum value		depth	walls		
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											
Option C. Total UA Alternative	If Option 1C	If Option 1C was selected on the reverse side of this form, installed values match the REScheck certificate									
Additional Efficiency Packages	The additiona	The additional efficiency package selected on the reverse side of this form has been installed									
Linciency i ackages											
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	• Final HE	RS certifi	cate indicating	HERS ra	ting index	score comp	lying with Table F	R406.4		
HERS rating with N amendments	ЛΑ			ed ENERGY ST e required by Re							
amenamente				TAR® Homes c		ing the iii	ai i i Lito i i i di	ex score			
Option B. Certified STAR® Homes, Ve		Certified			auma Cuat	ham Chaa	list sianed b	v Dotor			
— STAR Homes, ve	151011 3.1			Thermal Enclo required by R							
		 Updated 	d WUFI or	PHPP complia	nce repo			liance with PHIU	S+2018 (or		
Option C. Certified Passive Passive House Rater's test results											
House (or PHIUS) performance metho		 Stateme 	ent that the	e WUFI or PHP	P results			t' conditions, inco			
F	relevant test results and documented changes to equipment, materials, and assemblies impact performance"							mblies that			
іпірасі реполіансе											
General Mandatory Require	ments (ALL	PROJEC1	ΓS). Verif	y the following	measure	es have b	een installe	d and testing do	cumentation		
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. 											
	F. Dust insulation (D402.2.4). Cases conditioning dust usely in control attice must be D.O. (as D.O. if 42!! dismates). Cases conditioning										
6. Building framing ca	, , , , , , , , , , , , , , , , , , , ,										
7. Hot water boiler out											
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										
10. Certificate - Manda door and duct leakage t	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:											