City of Waltham $_{_{\#}}^{\#}$

2015 IECC Compliance Sheet

Completely fill out all information that applies, omissions will cause denial of application.

Owners Name	Permit Applicant Name				
Job Address	Applicant Phone #				
Please check what applies to your project	t:				
☐ New Home ☐ R	enovation or Repair				
☐ Addition ☐ D	oor & Window Replacements				
For Door	rs and Window Replacement Only (Table 402.1.1)				
Windows	Doors				
# of Windows	# of Doors				
U-Factor	U-Factor				
Note: Please have window stickers or factor requirement	ory affidavit on site for inspection for compliance with U-Factor				
New Homes, Additions, Alto	eration, Renovations or Repair Compliance Options				
Submittal:	Field Compliance:				
Prescriptive (see below)	Door Blower Test (Section 402.4.2.1)				
ResCheck, ComCheck or	☐ Visual Inspection Option (Section 402.24.2.2)				
OTHER Computer Base Software	igsquare Duct Testing (Section 403.2.2) — (required if ducts and air handler are				
Please List Not completely located within the conditioned space)					
☐ Home Energy Rating Score (HERS) (Chapter 61 Amendment)				
Presc	criptive Option (Table 402.1.1):				
Ceiling R-Values	Basement Wall R-Value				
Wood Frame Wall R-Values					
Mass Wall R-Value	Crawl Space Wall R-Value				
Floor R-Value					
Exceptions (Section 10	01.4.3) – I meet one of the following exceptions;				
Please provide the number for th	Please provide the number for the exception I meet in section 101.4.3: #				
	esign described here is consistent with the building plans, specifications, and lication. The proposed building has been designed to meet the 2009 IECC.				

Name – Title ______ Date _____

2015 IECC

Residential Energy Code Check Off Work Sheet

Building	Requirements	:
Dananie	requirement	•

	Building	Thermal	Envelop	e
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The building thermal envelope shall be durably sealed to limit infiltration. The sealing methods between dissimilar Materials shall allow for differential expansion and contraction. The following shall be caulked, gasketed, weather Stripped or otherwise sealed with an air barrier material, suitable film or solid material:

- 1. All joints, seams and penetrations.
- Site-built windows, doors and skylights.
- Openings between windows and doors assemblies and their respective jambs and framing.
- Utility penetrations.
- 5. Dropped ceilings or chases adjacent to the thermal envelope.
- Knee walls
- Walls and ceilings separating a garage from conditioned spaces.
- Behind tubs and showers on exterior walls.
- Common walls between dwelling units.
- 10. Other sources of infiltration.

	ation Inspection Component Criteria
Air barrier and Thermal barrier	Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier. Breaks or joints in the air barrier are filled or repaired. Air permeable insulation is not used as a sealing material. Air permeable insulation is inside of an air barrier.
Ceiling/attic	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed. Attic access (except unvented attic), knee wall door, or drop down stair is sealed.
Walls	Corners and headers are insulated. Junction of foundation and sill plate is sealed.
Windows and doors	Space between window/door jams and framing is sealed.
Rim joists	Rim joists are insulated and include air barrier.
Floors (including above garage and Cantilevered floors)	Insulation is installed to maintain permanent contact with underside of subfloor decking. Air barrier is installed at any exposed edge of insulation.
Crawl space walls	Insulation is permanently attached to walls. Exposed earth in unvented crawl space is covered with class I vapor retarder with overlapping joints taped.
Shafts, penetrations	Duct shafts, utility penetrations, knee walls, and flue shafts opening to exterior or unconditioned space are sealed.
Narrow cavities	Bats in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.
Garage separation	Air sealing is provided between the garage and conditioned spaces.
Recessed lighting	Recessed light fixtures are airtight, IC rated and sealed to drywall. Exception- fixtures in conditioned space.
Plumbing and wiring	Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring
Shower/tub on Exterior wall	Shower and tubs on exterior walls have insulation and air barrier separating
Electrical/phone box	them from the exterior wall. Air barrier extends behind boxes or air sealed-type boxes are installed.
On exterior walls	The barrier extends belinid boxes of an scaled-type boxes are installed.
Common wall	Air barrier is installed in common wall between dwelling units.
HVAC register boots	HVAC register boots that penetrate building envelope are sealed to subfloor or drywall.
Fireplace	Fireplace walls include an air barrier

vapor	Retarde	r:	

J	Vapor retarder is installed on the warmer-in-winter side of all non-vented framed ceilings, walls, and floors; or it has been determined
	That moisture or its freezing will not damage the materials; or other approved means to avoid condensation are provided.
	Comments:

Lighting Requirements
 ☐ Recessed lighting ☐ Recessed luminaries installed in the building thermal envelope shall be sealed to limit air leakage between Conditioned and unconditioned spaces by being; ☐ IC-rated and labeled as meeting ASTM E 283.
Lighting Requirements: ☐ A minimum of 50 percent of the lamps in permanently installed lighting fixtures can be categorized as one of the following: (a) Compact fluorescent (b) T-8 or smaller diameter linear fluorescent (c) 40 lumens per watt for lamp wattage <=15 (d) 50 lumens per watt for lamp wattage > 15 and <= 40 (e) 60 lumens per watt for lamp wattage > 40
Materials Identification and Installation: Materials and equipment are installed in accordance with the manufacturer's installation instructions. Insulation is installed in substantial contact with the surface being insulated and in a manner that achieves the rated R-value. Materials and equipment are identified so that compliance can be determined. Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment have been provided. Insulation R-Values and glazing U-factors are clearly marked on the building plans or specifications.
Ducts ☐ Supply ducts in attics are insulated to a minimum of R-8. All other ducts in unconditioned spaces or outside the building envelope are insulated to at least R-6. Duct Construction and Testing ☐ Building framing cavities are not used as supply ducts. ☐ All joints and seams of air ducts, air handlers, filter boxes, and building cavities used as return ducts are substantially airtight by means of tapes, mastics, liquid sealants, gasketing or other approved closure systems. Tapes, mastics, and fasteners are rated UL 181A or UL 181B and are labeled according to the duct construction. Metal duct connections with equipment and/or fittings are mechanically fastened. Crimp joints for round metal ducts have a contact lap of at least 1 ½ inches and are fastened with a minimum of three equally spaced sheet-metal screws. Exceptions: • Joint and seams covered with spray polyurethane foam.
 Where a partially inaccessible duct connection exists, mechanical fasteners can be equally spaced on the exposed portion of the joint so as to prevent a hinge effect. Continuously welded and locking-type longitudinal joints and seams on ducts operating at less than 2in. w.g. (500 Pa)
 ☐ Duct tightness test has been performed and meets one of the following test criteria: (1) Post construction leakage to outdoors test: Less than or equal to 8 cfm per 100 ft2 of conditioned floor area. (2) Post construction total leakage test (including air handler enclosure): Less than or equal to 12 cfm per 100 ft2 pressure differential of 0.1 inches w.g. (3) Rough-in total leakage test with air handler installed: less than or equal to 6 cfm per 100 ft2 of conditioned floor area whentested at a pressure differential of 0.1 inches w.g. (4) Rough-in total leakage test without air handler installed: Less than or equal to 4 cfm per 100 ft2 of conditioned floor are. Exception: Ducts or portions there of located completely inside the building thermal envelope.
☐ All ducts and air handlers are located within conditioned spaced.
Fire Place ☐ New wood burning fir places shall have gasketed doors and; ☐ Outdoor combustion air – Section 6005 780 CMR Massachusetts State Building Code

Additional For system	ms serving multiple dwelling	zing: nent sizing are included by an inspengunits documentation has been sund/ or Service Water Heating (Sect	ibmitted demonstrating com		
☐ Circulatin	Service Hot Water Systeng service hot water pipes and Service hot water systems in ot in use.		e manual switch to turn off	he circulating pump when th	
Heating and	d Cooling Piping Insulation iping conveying fluids abo	tion: ve 105 degrees F or chilled fluids b	elow 55 degrees F are insulat	ed to R-3.	
Pool heat Timer sw Exception Where publ	wimming pools have an or ters operating on natural gritches on pool heaters and n: lic health standards require	as or LPG have an electronic pilot l	ight.		
minimum <i>Exceptic</i>	n insulation value of R-12.	er on or at the water surface. For p	_		
shutting of temperate Certificate: A permar U-factors; visibility of	d ice-melting systems with off the system when a) the ture is above 40 degrees F nent certificate is provided ; type and efficiency of spa	energy supplied from the service to pavement temperature is above 50 (a manual shutoff control is also per on or in the electrical distribution per conditioning and water heating l, service disconnect label or other retrient Use Only)	degrees F, b) no precipitation rmitted to satisfy requirements oanel listing the predominant equipment. The certificate de	n is falling, and c) the outdoor nt 'c') insulation R-value; window	
			Inspector	Date	
			Inspector	Date	
			Inspector	Date	
			Inspector	Date	
	other calculations submitt	ne proposed building design described ed with the permit application. The pro	pposed building has been desig	ned to meet the 2015 IEEC.	
	Name – Title	Signature	Date		