Massachusetts Residential IECC Energy Performance Testing Certificate

House Address:_____ **Permit #:**_____ **Date:**_____

Permit holder:_____ **Phone:** _____

I. Building Envelope Air Leakage (mandatory):

Blower door test (Mandatory)

Testing company:_____ Phone: _____

Tester Name (print): _____ Signature: _____ Date: _____

BPI or HERS Rater certification number: BPI no: _____ HERS Rater no: _____

Test Result:

Fan Flow at 50 Pascals = _____CFM50 Total Conditioned Volume =_____ft^3

ACH50 = CFM50 x 60 / Volume = _____ACH50 **(must be ≤ 3.0 ACH50)**

Visual Inspection (Mandatory)

□ Air Barrier and Insulation Installation checklist completed, signed and included with this certificate.

II. Heating and Cooling System Duct Leakage

□ All portions of the ducts are located entirely within the building thermal envelope. Testing is not required*.

Duct leakage test

Testing company:_____ Phone: _____

Tester Name (print): _____ Signature: _____ Date: _____

BPI or HERS Rater certification number: BPI no: _____ HERS Rater no: _____

Total duct leakage test (choose 1):

□ Rough-in w/ air handler (must be ≤ 4.0 CFM/100 ft^2) □ Rough-in w/o air handler (must be ≤ 3.0 CFM/100 ft^2)

□ Post construction (must be ≤ 4.0 CFM/100 ft^2)

Test Result:

System 1:

Fan Flow at 25 Pascals (CFM25) _____ CFM Conditioned Floor Area (CFA) served by system = _____ft^2

CFM25 / CFA x 100 = _____ CFM/100 ft^2

System 2 (if present):

Fan Flow at 25 Pascals (CFM25) _____ CFM Conditioned Floor Area (CFA) served by system = _____ft^2

CFM25 / CFA x 100 = _____ CFM/100 ft^2

Note: When following the Energy Rating Index (ERI) path, a leakage to outdoors test is required per RESNET standards.

III. Whole-house Ventilation System Airflow Test

Verifier:

Testing company:_____Phone: _____

Tester Name (print): _____ Signature: _____ Date: _____

BPI or HERS Rater certification number: BPI no: _____ HERS Rater no: _____

Required airflow (Q):

Infiltration credit portion of equation is optional

$$Q = .03 \times CFA + 7.5 \times (N_{br} + 1) - 0.052 \times Q_{50} \times S \times WSF$$

Required inputs:

CFA = Conditioned Floor Area = _____ ft^2

N_{br} = Number of bedrooms = _____

Optional inputs:

Q_{50} = Blower door test result = _____ CFM50

S = Building height factor = _____

WSF = Weather and shielding factor = _____

Stories above grade plane	1	2	3
S	1.00	1.32	1.55

County	WSF
Barnstable	0.60
Berkshire	0.52
Bristol	0.54
Dukes	0.59
Essex	0.58
Franklin	0.52
Hampden	0.49
Hampshire	0.59
Middlesex	0.55
Nantucket	0.61
Norfolk	0.52
Plymouth	0.53
Suffolk	0.66
Worcester	0.59

Required airflow (Q) = _____ CFM

Tested airflow = _____ CFM
(must be ≥ required airflow)

□ Fan controlled to operate continuously

Fan efficacy:

□ In-line fan (max 2.8 CFM/W)
□ Bathroom/utility room fan: 10-89 CFM (max 1.4 CFM/W)
□ Bathroom/utility room fan: 90+ CFM (max 2.8 CFM/W)

HVI-Rated fan efficacy = _____ CFM/W

IV. Qualified Performance Testing Providers:

Find qualified performance testers at:
http://nehers.org/find-hers-rater
http://www.resnet.us/directory/search
https://bpi.org/locator-tool/find-a-contractor

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Savings through energy efficiency