

2008-09 NEW YORK ENERGY STAR® LABELED HOMES BUILDER OPTION PACKAGE (BOP)

All New York ENERGY STAR Labeled Homes (NYESLH) incentive applications submitted under this option are required to meet the specifications listed below. Compliance must be verified, through field-testing, by a participating HERS Rater, and meet all applicable state and local codes.

Mixed and Cold Climates 2004 IRC Climate Zones 4, 5, 6	
Cooling Equipment ^{1, 2, 3}	A/C 14 SEER / 11.5 EER Heat Pump 14 SEER / 12 EER 8.5 HSPF
Heating Equipment ¹	ENERGY STAR Qualified Gas Furnace 90 AFUE; <u>or</u> ENERGY STAR Qualified Gas or Oil Boiler 85 AFUE; <u>or</u> ENERGY STAR Qualified Oil Furnace 85 AFUE.
Thermostat ⁴	ENERGY STAR Labeled Programmable
Ductwork ⁵	Leakage: 4 cfm/ 100 sq. ft. R-8 minimum insulation in unconditioned spaces.
Envelope Infiltration ⁶	5 ACH50
Envelope Insulation	Reference: 'ENERGY STAR Qualified Homes Codes and Standards Information' and 'Map of DOE's Proposed Climate Zones' Document in Technical Specifications for Insulation Requirements Zones 4 (except Marine), 5, 6
Thermal Bypass Inspection	Required for ALL NYESLH Reference: 'ENERGY STAR Qualified Homes Thermal Bypass Inspection Checklist' Document in the Technical Specifications
Windows	All Zones: Northern Climate Zone U-Factor \leq 0.35 SHGC: Any
Water Heater ⁷	Gas (EF): 40 Gal = 0.61 : 50 Gal = 0.59 : 75 Gal = 0.54 Elec (EF): 40 Gal = 0.93 : 50 Gal = 0.92 : 75 Gal = 0.90
Lighting and Appliances Electrical kWh Savings	500 Labeled /650 Display and Model Using ENERGY STAR Qualified Products listed in Technical Specifications, excluding ECM Motors
Mechanical Ventilation	Reference: '2008-09 NEW YORK ENERGY STAR Labeled Homes Ventilation System Guidelines'
Combustion Safety Testing	Required for ALL NYESLH Reference: 2008-09 NYESLH Addendum

¹ Cooling and Heating equipment shall be sized based on building loads calculated in accordance with ACCA Manual J.

² Homes in Climate Zones 4 and 5 must have a HSPF \geq 8.5 which exceeds the EPA ENERGY STAR minimum of 8.2.

³ As per EPA guidelines, homes with heat pumps in Climate Zone 6 cannot be qualified using the BOP. The label must be earned using the Performance Path.

⁴ Homes with heat pumps, must have programmable thermostat installed with "Adaptive Recovery" technology to prevent excessive use of electric heat.

⁵ Duct tightness must be verified by a participating HERS Rater. Duct testing can be waived if all ducts and air handling equipment are located in the conditioned space and envelope leakage has been tested to be \leq 3 ACH50.

⁶ 5 ACH50 exceeds the EPA ENERGY STAR minimum for Climate Zone 4 (except marine). Envelope leakage must be verified by a participating HERS Rater using a RESNET approved testing protocol.

⁷ Homes with gas or oil Hydronic space heating equipment must have water heating systems with EF. \geq .78. This can be met with instantaneous or indirect storage with boiler AFUE listed above.