

Triple E Tier I Program Standards Checklist (intended for builders and customers)

		Tier I	Proposed Home
Minimum Insulation Requirements (Prescriptive & Performance Standards)			
<input type="checkbox"/>	Attic	R-44	
<input type="checkbox"/>	Cathedral Ceiling \leq 50% ceiling area	R-40	
<input type="checkbox"/>	Cathedral Ceiling 100% of ceiling area	R-44	
<input type="checkbox"/>	Exterior Walls ³	R-21 cavity	
<input type="checkbox"/>	Rim Joist Continuous	R-15 cavity or R-10 continuous	
<input type="checkbox"/>	Foundation/Basement Wall	R-10	
<input type="checkbox"/>	Slab Perimeter	R-10	
<input type="checkbox"/>	Under Slab	R-10	
<input type="checkbox"/>	Floor Over Exterior Space	R-24 cavity plus R-5 continuous	
<input type="checkbox"/>	Floor Over Unconditioned Space	R-24	
<input type="checkbox"/>	Total Conditioned Floor Area	no limitations	
<input type="checkbox"/>	Air Tightness	\leq .25 cfm/ft ² @ 50 pascals	
Window Requirements			
<input type="checkbox"/>	Window U-value	\leq .35	
<input type="checkbox"/>	Window SHGC	no requirements	
<input type="checkbox"/>	Window Distribution	no requirements	
<input type="checkbox"/>	Max Window Area ^{1,2}	no requirements	
Minimum Equipment Requirements (HVAC)			
<input type="checkbox"/>	Gas Furnace Heating (forced air)	not allowed on tier 1 homes	
<input type="checkbox"/>	Gas Boiler Heating (hot water)	not allowed on tier 1 homes	
<input type="checkbox"/>	Electric Heating	any	
<input type="checkbox"/>	Electric Cooling (SEER) ⁴	\geq 14	
<input type="checkbox"/>	Air-to-Air Heat Exchanger	\geq 76% HRV or ERV	
<input type="checkbox"/>	Thermostats for Forced Air ⁵	ENERGY STAR Programmable	
Water Heater Requirements			
<input type="checkbox"/>	40 Gallon	no requirements	
<input type="checkbox"/>	50 Gallon	no requirements	
<input type="checkbox"/>	60 Gallon	no requirements	
<input type="checkbox"/>	80 Gallon	no requirements	
<input type="checkbox"/>	Gas Instantaneous (tankless)	no requirements	
Additional Requirements			
<input type="checkbox"/>	Compliance with Thermal Bypass Checklist ⁶	yes	
<input type="checkbox"/>	Duct Location	any location acceptable	
<input type="checkbox"/>	Duct Insulation	R-8	
<input type="checkbox"/>	ENERGY STAR Lighting	5 fixtures required	
<input type="checkbox"/>	ENERGY STAR Dishwasher	required	
<input type="checkbox"/>	ENERGY STAR Clothes Washer	required	
<input type="checkbox"/>	ENERGY STAR Refrigerator	required	
See Footnotes for specific details			

Triple E Tier II and ENERGY STAR Program Standards Checklist (intended for builders and customers)

Tier II and ENERGY STAR

Proposed Home

Minimum Insulation Requirements (Prescriptive & Performance Standards)			
<input type="checkbox"/>	Attic	R-50	
<input type="checkbox"/>	Cathedral Ceiling \leq 50% ceiling area	R-40	
<input type="checkbox"/>	Cathedral Ceiling 100% of ceiling area	R-50	
<input type="checkbox"/>	Exterior Walls ³	R-24 cavity or R-20 continuous	
<input type="checkbox"/>	Rim Joist Continuous	R-20 cavity or continuous	
<input type="checkbox"/>	Foundation/Basement Wall	R-19	
<input type="checkbox"/>	Slab Perimeter	R-10	
<input type="checkbox"/>	Under Slab	R-10	
<input type="checkbox"/>	Floor Over Exterior Space	R-30 cavity plus R-5 continuous	
<input type="checkbox"/>	Floor Over Unconditioned Space	R-30	
<input type="checkbox"/>	Total Conditioned Floor Area	1000-4000ft ²	
<input type="checkbox"/>	Air Tightness	\leq .20 cfm/ft ² @ 50 pascals	
Window Requirements			
<input type="checkbox"/>	Window U-value	\leq .33 or \leq .28	
<input type="checkbox"/>	Window SHGC	\geq .30 or \geq .24	
<input type="checkbox"/>	Window Distribution	\leq 62.5%	
<input type="checkbox"/>	Max Window Area ^{1,2}	max 18%	
Minimum Equipment Requirements (HVAC)			
<input type="checkbox"/>	Gas Furnace Heating (forced air)	\geq 92% AFUE with ECM motor	
<input type="checkbox"/>	Gas Boiler Heating (hot water)	\geq 85% AFUE	
<input type="checkbox"/>	Electric Heating	any	
<input type="checkbox"/>	Electric Cooling (SEER) ⁴	\geq 14	
<input type="checkbox"/>	Air-to-Air Heat Exchanger	\geq 76 % HRV or ERV	
<input type="checkbox"/>	Thermostats for Forced Air ⁵	ENERGY STAR Programmable	
Water Heater Requirements			
		Electric	Gas
<input type="checkbox"/>	40 Gallon	0.93	0.62
<input type="checkbox"/>	50 Gallon	0.92	0.59
<input type="checkbox"/>	60 Gallon	0.91	0.57
<input type="checkbox"/>	80 Gallon	0.89	0.53
<input type="checkbox"/>	Gas Instantaneous (tankless)	n/a	any
Additional Requirements			
<input type="checkbox"/>	Compliance with Thermal Bypass Checklist ⁶	yes	
<input type="checkbox"/>	Duct Location	conditioned space only	
<input type="checkbox"/>	Duct Insulation	R-8	
<input type="checkbox"/>	ENERGY STAR Lighting	5 fixtures required	
<input type="checkbox"/>	ENERGY STAR Dishwasher	required	
<input type="checkbox"/>	ENERGY STAR Clothes Washer	required	
<input type="checkbox"/>	ENERGY STAR Refrigerator	required	
See Footnotes for specific details			