

ENERGY STAR Certified Homes, Version 3 / 3.1 (Rev. 09) 2019 Rater Quality Assurance Checklist

Home Address: City: State:	Zip	Code:_		
Action Items / Summary of QA	Y	es	No)
If any Item marked "Must Correct," an action summary document shall be attached.	[]		
Rater Design Review Checklist				
4. Review of HVAC Design Report	Passed	Must Correct	Not Visible	N/A
4.1 HVAC Design Report collected for records, with no Items left blank			-	
4.2 HVAC Design Report reviewed by Rater for the following parameters (HVAC Design Report Item # indicated in pare	enthesis)			
4.2.2 Number of occupants used in loads (3.4) is within ± 2 of the home to be certified			-	
4.2.3 Conditioned floor area used in loads (3.5) is between 100 sq. ft. smaller and 300 sq. ft. larger than the home to be certified			-	
4.2.4 Window area used in loads (3.6) is between zero and 15 sq. ft. smaller and 60 sq. ft. larger than the home to be certified or, for homes to be certified with > 500 sq. ft. of window area, between 3% smaller and 12% larger			-	
4.2.5 Predominant window SHGC (3.7) is within 0.1 of predominant value in the home to be certified			-	
Rater Field Checklist				
1. High-Performance Fenestration & Insulation		1		
1.2 Insulation meets or exceeds levels specified in Item 3.1 of the Rater Design Review Checklist, where Item 3.1 requires that specified ceiling, wall, floor, and slab insulation levels comply with one of the following options:				
3.1.1 Meets or exceeds 2009 IECC levels OR ;	-	-	-	-
3.1.2 Achieves ≤ 133% of the total UA resulting from the U-factors in 2009 IECC Table 402.1.3, per guidance in Footnote 4d, AND specified home infiltration does not exceed the following:	-	-	-	_
3 ACH50 in CZs 1,2 2.5 ACH50 in CZs 3,4 2 ACH50 in CZs 5,6,7 1.5 ACH50 in CZ 8				
1.3 All insulation achieves Grade I install. per ANSI / RESNET / ICC Std. 301., or alternative per Footnote 4 of Rater Field Checklist				
2. Fully-Aligned Air Barriers				
2.3 At attic knee walls and skylight shaft walls, a complete air barrier provided that is fully aligned at exterior vertical surface of wall insulation in all climate zones; also at interior vertical surface of wall insulation in CZ 4-8				
3. Reduced Thermal Bridging				
3.1 For insulated ceilings with attic space above (i.e., non-cathedralized), Grade I insulation extends to the inside face of the exterior wall below and is ≥ R-21 in CZ 1-5; ≥ R-30 in CZ 6-8				
3.3 Insulation beneath attic platforms (e.g., HVAC platforms, walkways) ≥ R-21 in CZ 1-5; ≥ R-30 in CZ 6-8				
4. Air Sealing (Unless otherwise noted below, "sealed" indicates the use of caulk, foam, or equivalent material)				
4.1 Bathroom & kitchen exhaust fans that penetrate unconditioned space sealed, with blocking / flashing as needed. 1				
4.2 Recessed lighting fixtures adjacent to unconditioned space ICAT labeled and gasketed. Also, if in insulated ceiling without attic above, exterior surface of fixture insulated to ≥ R-10 in CZ 4-8.				
4.9 Doors adjacent to unconditioned space (e.g., attics, garages, basements) or ambient conditions made substaintially air-tight with weatherstripping or equivalent gasket				
4.10 Attic access panels, drop-down stairs, & whole-house fans equipped with durable ≥ R-10 cover that is gasketed (i.e., not caulked). Fan covers either installed on house side or mechanically operated.				
6. Duct Quality Installation				
6.1 Ductwork installed without kinks, sharp bends, or excessive coiled flexible ductwork. 1				
6.2 Bedrooms pressure-balanced (e.g., using transfer grilles, jump ducts, dedicated return ducts, undercut doors) to achieve a Rater-measured pressure differential ≥ -3 Pa and ≤ +3 Pa with respect to the main body of the house when all air handlers are operating, or alternative per Footnote 34 of Rater Field Checklist				
6.3 All supply and return ducts in unconditioned space, including connections to trunk ducts, are insulated to ≥ R-6.				
6.4 Rater-measured total duct leakage meets one of the following two options. See Footnote 37 of Rater Field Checklis	t for alter	native:		•
6.4.1 Rough-in: The greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM, with air handler & all ducts, building cavities used as ducts, & duct boots installed. In addition, <u>all</u> duct boots sealed to finished surface, Rater-verified at final.				
6.4.2 <u>Final</u> : The greater of ≤ 8 CFM25 per 100 sq. ft. of CFA or ≤ 80 CFM, with the air handler & all ducts, building cavities used as ducts, duct boots, & register grilles atop the finished surface (e.g., drywall, floor) installed.				
6.5 Rater-measured duct leakage to outdoors the greater of ≤ 4 CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM25.				
7. Whole-House Mechanical Ventilation System				
7.7 Air inlet location (Complete if ventilation air inlet location was specified (2.12, 2.13); otherwise check "N/A"):				-



ENERGY STAR Certified Homes, Version 3 / 3.1 (Rev. 09) 2019 Rater Quality Assurance Checklist

ENERGY STAIT	2019 Nater Quality	Assulative City	CCKIISL				
7.7.1 Inlet pulls	ventilation air directly from outdoo	s & not from attic, crawlspace	e, garage, or adjacent dwelling unit.				
7.7.2 Inlet is ≥ 2 ft. above grade or roof deck; ≥ 10 ft. of stretched-string distance from known contamination sources (e.g., stack, vent, exhaust, vehicles) not exiting the roof, and ≥ 3 ft. distance from dryer exhausts and sources exiting the roof. ¹							
8. Local Mechanic	al Exhaust			Passed	Must Correct	Not Visible	N/A
In each kitchen & b	athroom, system is installed that e	xhausts directly to outdoors &	& meets one of the following Rater-me	easured	airflow st	andards	s:
Location	Continuous Rate	Intermittent Rate					
8.1 Kitchen ¹	≥ 5 ACH, based on kitchen volume	≥ 100 CFM and, if not also ≥ 5 ACH based of	t integrated with range, on kitchen volume				
8.2 Bathroom ¹	≥ 20 CFM	≥ 50 CFM					
9. Filtration							
	ERV 6 or higher filter installed in eagular service by the occupant	ich ducted mechanical systen	n in a location that facilitates				
	anel includes gasket or comparable ed to prevent bypass	e sealing mechanism and fits	snugly against the exposed edge of				
9.3 All return air an	d mechanically supplied outdoor a	ir passes through filter prior to	o conditioning				
10. Combustion A	ppliances						
	ers, and water heaters located wit See Footnote 56 of Rater Field C		dary are mechanically drafted or				
boundary, the	mbustion appliances other than co e Rater has followed Section 802 o dix A, Section A3 (Carbon Monoxio	f RESNET's Standards, enco	mpassing ANSI/ACCA 12 QH-				
OA Designee			Rater RTIN #:				
	ime of inspection (e.g., under cons			Inspection	on:		
	me:	. , ,		•			
l		ter RTIN #:	Rater Pre-Drywall Ir	nspection	n Date: _		
Rater Name:	Ra	ter RTIN #:					

Note: Additional checklist items may be inspected for quality insurance and included in the additional checklist items report.

Checklist Name	Item #	Notes	Passed	Must Correct	Not Visible	N/A

Footnotes

1. This represents a subset of the Revision 09 Item, rather than the complete Item.