

ENERGY STAR Certified Homes, Version 3 / 3.1 (Rev. 10) 2020 Rater Quality Assurance Checklist

Home Address: City: State:	Zip	Code:_		
Action Items / Summary of QA	Ye	es	No)
If any Item marked "Must Correct," an action summary document shall be attached.]		
Rater Design Review Checklist				
4b. Review of ENERGY STAR HVAC Design Report	Passed	Must Correct	Not Visible	N/A
4b.1 HVAC Design Report collected for records, with no Items left blank.			-	
4b.2 HVAC Design Report reviewed by Rater for the following parameters (HVAC Design Report Item # indicated in p	arenthesis):		
4b.2.2 Number of occupants used in loads (3.4) is within ± 2 of the home being reviewed.			-	
4b.2.3 Conditioned floor area used in loads (3.5) is between 100 sq. ft. smaller and 300 sq. ft. larger than the home being reviewed.	e 🗆		-	
4b.2.4 Window area used in loads (3.6) is between 15 sq. ft. smaller and 60 sq. ft. larger than the home being reviewed, or, for homes with > 500 sq. ft. of window area, between 3% smaller and 12% larger.			-	
4b.2.5 Predominant window SHGC (3.7) is within 0.1 of predominant value in the home being reviewed.			•	
Rater Field Checklist				
1. High-Performance Fenestration & Insulation				
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 5d, 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 5 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.	' 			
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, compressions, 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 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 37 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 40 of Rater Field Check	ist 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, all 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.				



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7. Whole-House Mechanical Ventilation System			Passed	Must Correct	Not Visible	N/A	
7.7 Air inlet locatio	n (Complete if ventilation air inlet loc	ation was specified (2.12, 2.13); otherwise	check "N/A"):				
7.7.1 Inlet pulls ventilation air directly from outdoors & not from attic, crawlspace, garage, or adjacent dwelling unit.							
7.7.2 Inlet is ≥ 10 ft. of stretched-string distance from known contamination sources not exiting the roof, and ≥ 3 ft. from sources exiting the roof. ¹							
8. Local Mechanica	al Exhaust						
In each kitchen & I	bathroom, system is installed that exl	nausts directly to outdoors & meets one of t	he following Rater-me	asured	airflow s	tandards	3:
Location	ocation Continuous Rate Intermittent Rate						
8.1 Kitchen ¹	≥ 5 ACH, based on kitchen volume	≥ 100 CFM and, if not integrated with also ≥ 5 ACH based on kitchen volum					
8.2 Bathroom ¹	≥ 20 CFM	≥ 50 CFM					
9. Filtration							
9.1 MERV 6+ filter(s) installed in each ducted mech. system, located to facilitate occupant access & regular service.							
9.2 Filter access panel includes gasket and fits snugly against exposed edge of filter when closed to prevent bypass.							
9.3 All return air and mechanically supplied outdoor air passes through filter prior to conditioning.							
10. Combustion A	Appliances						
10.1 Furnaces, boilers, & water heaters are mechanically drafted or direct-vented. See Footnote 61 of Rater Field Checklist for alternatives.							
10.3 If unvented combustion appliances other than cooking ranges or ovens are located inside the home's pressure boundary, the Rater has followed Section 802 of RESNET's Standards, encompassing ANSI/ACCA 12 QH-2014, Appendix A, Section A3 (Carbon Monoxide Test), & verified the equipment meets the limits defined within.							
QA Designee:		Rater RTIN #:					
Status of home at	time of inspection (e.g., under constr	uction, occupied):	Date of I	nspecti	on:		
	ame:						
	Rater Name: Rater RTIN #: Rater Pre-Drywall Inspection Date:						
		Rater RTIN #: Rater Final Inspection Date:					
Note: Additional che	cklist items may be inspected for au	ality insurance and included in the additiona	al checklist items repo	rt.			

Additional Checklist Items - Use this space to list additional Items reviewed (attach additional pages, if needed)						
Checklist Name	Item #	Notes	Passed	Must Correct	Not Visible	N/A

Footnotes

1. This represents a subset of the Revision 10 Item, rather than the complete Item.