ENERGY STAR® Residential New Construction Programs

Historical Document

This document is provided for reference because it has been superseded by a more recent Version or Revision. Please find current program documents on the <u>Program Requirements</u> webpage.

Use of older Versions and Revisions, such as this document, are typically limited to homes and buildings with a permit date (or, for manufactured homes, a production date) prior to a specified date. Consult the Implementation Timeline table to assess whether a home or apartment is still eligible to be certified using this document.

For questions or more information, contact us at energystar.gov.



An ENERGY STAR Quality Assurance Checklist shall be completed during each quality assurance file review and field review (QA review) of homes being certified through the ENERGY STAR Single-Family New Homes program in accordance with the policies and procedures of the Home Certification Organization (HCO) ¹. This revision of the QA checklist is mandatory for homes certified under Version 3 / 3.1 / 3.2, Revision 12. QA reviews for homes certified under Revision 11 may continue to use the prior revision of this document (Rev. 11). Review complete instructions on page 4.

ENERGY STAR Quality Assurance Checklist

			<u> </u>						
Home Address:				City:		State:	Zip	Code: _	
	eview Type: □ File □ Field						Review:		
	ater Being QA'd:					 Pre-drywall □ Final cons			
Original Rating R	ater Company Name:								
	ater Name:				·		Date:		
	ater Name:						Date:		
Action Items / Sun							Yes	No	N/A
If any Items are marked	d "No" or "Not Verified," an actio	n/explana	tion summ	ary docun	nent shall	be attached.		-	
Documentation Co	ollection – Collect these items	s as part o	f the QA da	ata file			Yes	No	N/A
A) Energy Rating File of	collected.								-
B) National Rater Design	gn Review Checklist collected, v	with no app	plicable Ite	ms left bla	ank.				-
	builder had an ENERGY STAR ctive partnership cannot be verif								-
	ı	f Track A	- HVAC	Grading v	vas pursu	ed:	•		
	compliant with ANSI / RESNET 310 for Dwelling & Units, collect					al HVAC Design			
E) ANSI / RESNET / A	CCA / ICC Std. 310 design revie	ew criteria	have beer	n met for a	pplicable	housing type.			
	If	Track B -	- HVAC C	redential	was purs	ued:			
D) ENERGY STAR Na	tional HVAC Design Report coll	ected, with	no applic	able Items	s left blank	ζ.			
exempted type, in w	HVAC contractor held required hich case check: ☐ Exempted active credential cannot be veri								
	Checklist collected, with no Iter					·			-
List of any exemption	ns or alternatives used by the F	Rater.							
Per 5b.1, written ap	proval from designer collected if	f installed	models do	not match	n National	HVAC Design Report.			
	stance is used for inlet and outled indicating that the smaller dist			ation syste	em per foo	tnote, manufacturer's			
Rater name, Rater i	nspection dates and Rater initia	ls are reco	orded.						-
If any Builder Verifie	ed Items are used, builder emplo	oyee, build	ler inspect	ion date a	nd builder	initials are recorded.			
Energy Rating File							Yes	No	N/A
Energy Rating file pass	ses the Home Certification Orga	nization's	(HCO's) q	uality assเ	ırance rev	iew checklist. 1			-
ERI of the home meets or exceeds the ENERGY STAR ERI Target for the program version applicable at the time of certification.							-		
Energy Rating file is consistent with the National Rater Design Review Checklist							-		
2.1 Modeled fenestration meets or exceeds 2009 IECC or, for National v3.2, 2021 IECC requirements.							-		
3.1 Modeled total building thermal envelope UA meets one of the following options. Note: Item 3.1.2 is not an option for National v3.2.							-		
	100% of the total UA resulting Table 402.1.2 OR ; ²	from the U	J-factors ir	2009 IEC	CC Table 4	102.1.3 or, for National			-
	sions except National v3.2: Ach Table 402.1.3, AND modeled ir	nfiltration o	does not ex	ceed:	1	om the U-factors in the			_
	2009 IECC Climate Zone Infiltration Limit (ACH50)	1 - 2 ≤ 3.0	3 - 4 ≤ 2.5	5 - 7 ≤ 2.0	8 ≤ 1.5				-
								L	

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Energy Rating File	(cont.)						Yes	No	N/A	4
Energy Rating file is con	sistent with the National Rate	r Field Che	ecklist						-	
1.3 Modeled insulation	on achieves Grade I install. pe	er ANSI / F	RESNET / I	CC Std. 30)1. ²				-	
3.1, 3.3 & 4.10 Mode	eled attic insulation meets min	imum R-va	alue at peri	imeter, pla	tforms and	l attic covers. 2			-	
3.2 For slabs on grad	de in CZ 4-8, slab edge mode	led with ≥	R-5 insulat	tion at dep	th specified	d by the 2009 IECC. 2				
3.4 Modeled above of	grade walls are consistent with	n documer	nted therma	al bridging	strategy (3	3.4.1, 3.4.2 or 3.4.3). ²			-	
6.3 Modeled supply	and return ducts in uncondition	ned space	are insula	ted to ≥ R-	6. ²					
6.4 & 6.5 Modeled d	uct leakage is consistent with	Items 6.4	(total leaka	age) and 6.	5 (leakage	e to outdoors). 2				
7.1 Modeled ventilat	ion rate is within ± 15 CFM or	± 15% of 0	design rep	ort value (2	2.3).				-	
National Rater Desi	gn Review Checklist						Yes	No	N/A	١
		Track A -	- HVAC G	rading wa	s pursued	d:				
4a.3 Cooling sizing % is	within the cooling sizing limit	selected b	y the HVA	C designer						
	If 7	Track B -	HVAC Cre	edential w	as pursue	d:	•		•	
4b.2 HVAC Design Rep	ort reviewed by Rater for the	following p	arameters	(National	HVAC Des	sign Report Item # in pare	enthesis)	:		
4b.2 HVAC Design Report reviewed by Rater for the following parameters (National HVAC Design Report Item # in par 4b.2.1 Cooling season and heating season outdoor design temperatures used in loads (3.3) are within the limits defined at energystar.gov/hvacdesigntemps for the State and County, or US Territory where the home is built or the designer has provided an allowance from EPA to use alternative values.										
4b.2.2 Number of occ	cupants used in loads (3.4) is	within ± 2	of the hom	e being re	viewed.					
 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. 										
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.2.6 Sensible, latent & total heat gain are documented (3.10 – 3.12) for the orientation of the home being reviewed.										
4b.2.7 The difference between the maximum total heat gain across orientations and that of the orientation of the home being reviewed (3.13) is ≤ 6 kBtuh. ³										
	% (4.13) is within the cooling					-				
National Rater Field Checklist – Mandatory during Field Review only. As an alternative, complete and attach the National Rater Field Checklist, Version 3 / 3.1 / 3.2 (Rev. 12).				Yes	No	Not Verified	N/A			
	Fenestration & Insulation							T	<u> </u>	
with one of the follo Item 3.1.2 is not an	n (ceiling, wall, floor, and slab wing options, as specified in l option for National v3.2. ² 0% of the total UA resulting fro	tem 3.1 of	the Nation	al Rater D	esign Revi	iew Checklist. Note:				-
	CC Table 402.1.2 OR ;									
3.1.2 For all Versions exceed the follo	2009 IECC Climate Zone	1 - 2	3 - 4	5 - 7	8	e infiltration does not				
	Infiltration Limit (ACH50)	≤ 3.0	≤ 2.5	≤ 2.0	≤ 1.5					
1.3 All insulation achiev	ves Grade I install. per ANSI /	RESNET	/ ICC Std.	301. ²						-
2. Fully-Aligned Air B	arriers									
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 I	Bridging									
	gs with attic space above (i.e., pelow and is ≥ R-21 in CZ 1-5;			Grade I ins	sulation ex	tends to the inside face				
3.3 Insulation beneath a	attic platforms (e.g., HVAC pla	tforms, wa	alkways) ≥	R-21 in C2	' 1-5; ≥ R-	30 in CZ 6-8.				
4. Air Sealing										
	shafts, plumbing, piping, wirin g / flashing as needed.	ıg, exhaus	t fans & otl	her penetra	ations to u	nconditioned space				-
4.2 Recessed lighting fi	xtures adjacent to uncondition	ed space	ICAT label	ed and ga	sketed. 2					
4.9 Doors adjacent to unconditioned space (e.g., attics, garages, basements) or ambient conditions made substantially air-tight with weatherstripping or equivalent gasket.					ions made substantially					
	s, drop-down stairs, & whole-hean covers either installed on h					cover that is gasketed				



5. Hea	ting & Coo	ling Equipment - Complete Track A - I	HVAC Grading or Track B - HVAC Credential	Yes	No	Not Verified	N/A
	5a.1 Blowe	r fan volumetric airflow is Grade I or II pe	er ANSI / RESNET / ACCA / ICC 310.				
Track A	5a.2 Blowe	r fan watt draw is Grade I or II per ANSI	/ RESNET / ACCA / ICC 310.				
	5a.3 Refrig	erant charge is Grade I per ANSI / RESI	NET / ACCA / ICC 310. ²				
Track B	equip	cordance with the checkbox selected by ment matches either of the following (chaptional HVAC Design Report Written a	•				
6. Duc	t Quality In	<u> </u>	5				
			ssion or excessive coiled flexible ductwork.				
und hou	dercut doors use when all	to achieve measured pressure differenti bedroom doors are closed & all air hand	transfer grills, jump ducts, dedicated return ducts, and / or ial ≥ -3 Pa and ≤ +3 Pa with respect to main body of the dlers are operating. For bedrooms with a design airflow ≥ teport, measured pressure differential ≥ -5 Pa ≤ 5 Pa.				-
			uding connections to trunk ducts, are insulated to ≥ R-6.				
		duct leakage meets the greater of ≤ 8 C ee or more returns, ≤ 12 CFM25 per 100	FM25 per 100 sq. ft. of CFA or \leq 80 CFM; or, for a duct 0 sq. ft. of CFA or \leq 120 CFM. ²				
6.5 Me	asured duct	leakage to outdoors is the greater of ≤ 4	CFM25 per 100 sq. ft. of CFA or ≤ 40 CFM25. ²				
7. Dwe	elling Unit I	Mechanical Ventilation Systems & I	nlets In Return Duct		,		
		lation rate is within ± 15 CFM or ± 15% o					-
7.2 A readily-accessible ventilation override control installed and also labeled if its function is not obvious (e.g., a label is required for a toggle wall switch, but not for a switch that's on the ventilation equipment).							-
7.3 For	any outdoo	r air inlet connected to a ducted return o	f the HVAC system (Complete if present; otherwise check "N	/A"): ²			
7.3.1 Controls automatically restrict airflow using a motorized damper during vent. off-cycle and occupant override. ²							
7.3.2 Measured vent. rate is ≤ 15 CFM or 15% above design value at highest HVAC fan speed. ²							
			HVAC fan operation is intermittent and either the fan type is ccounting for HVAC system heating or cooling hours. ²				
7.7 Air	inlet location	(Complete if ventilation air inlet location	n was specified on design report; otherwise check "N/A"): ³	-	-	-	
	•	<u> </u>	ot from attic, crawlspace, garage, or adjacent dwelling unit.				-
7.7.		ft. above grade or roof deck; ≥ 10 ft. of sthe roof, and ≥ 3 ft. distance from dryer	stretched-string distance from known contamination sources exhausts and sources exiting the roof.				-
7.7.	3 Inlet is pro	vided with rodent / insect screen with ≤ 0	0.5 inch mesh.				-
8. Loc	al Mechani	cal Exhaust					
In eac	h kitchen & b	· •	sts directly to outdoors & meets one of the following measure	d airflow	standa	rds:	
Locati	on	Continuous Rate	Intermittent Rate		1		
8.1 Kito	chen	≥ 5 ACH, based on kitchen volume. ²	≥ 100 CFM and, if not integrated with range, also ≥ 5 ACH based on kitchen volume ²				-
8.2 Bat	throom	≥ 20 CFM	≥ 50 CFM				-
9. Filtı					1	1	
all	return and n		alled in each ducted mechanical system in a location where sthrough filter(s) prior to conditioning, and that facilitates				
9.2 Filter access panel includes gasket or comparable sealing mechanism and fits snugly against the exposed edge of filter when closed to prevent bypass.							
10. Co	mbustion A	Appliances					
	urnaces, boil irect-vented.		e home's pressure boundary are mechanically drafted or				
10.2 Fi	replaces loc	ated within the home's pressure bounda	ry are mechanically drafted or direct-vented. ²				
10.3 No unvented combustion appliances other than cooking ranges or ovens are located inside the home's pressure boundary.							

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Instructions for Performing Quality Assurance Review

- During File Review, complete the Action Items / Summary of QA, Documentation Collection, Energy Rating File and National Rater Design Review Checklist sections. During Field Review, complete the entire checklist.
- In accordance with the HCO's policies, a limited amount of the required QA Field Reviews may be performed at the pre-drywall stage. Mark items that are not yet installed as "N/A." ¹
- Where a checklist item cannot be verified because it is not visible, not accessible, cannot be tested, or there are other extenuating circumstances, mark the box in the column "Not Verified," and include an explanation in an attached document.
- Additional items may be reviewed at the reviewer's discretion and included in the Additional Checklist Items and Exemptions report below.
- Items found to be out of compliance shall be corrected. If correction is not possible, the home's certification is required to be withdrawn (please contact energystarhomes@energystar.gov for guidance).

Footnotes

- 1. Home Certification Organizations (HCOs) are independent organizations recognized by EPA to implement an ENERGY STAR certification program for single-family and multifamily homes and apartments using an Energy Rating Index (ERI) compliance path. Learn more and find a current list of HCOs at energystar.gov/partner_resources/residential_new/working/other_participants/hco.
- 2. This item has been edited for space or has a footnote with an exemption or alternative. Refer to referenced program document for details. When an item is properly met using an exemption or alternative, mark the item as "Yes" and record a description in the Additional Checklist Items and Exemptions table.
- 3. This requirement is modified from the original program requirement in order to be applicable in the context of a finished home.
- 4. Homes certified using the ENERGY STAR Single-Family New Homes California Program Requirements, Version 3.3 and later are automatically deemed compliant with Item 3.1 of the National Rater Design Review Checklist.

Additional Checklist Items and Exemptions

Use this space to list additional Items reviewed and describe any exemptions or alternatives that were used (attach additional pages, if needed)									
Checklist/Section Name	Item #	Notes	Yes	No	Not Verified	N/A			

Certification Review

EPA has developed a process, called Certification Review, to address cases where a homeowner has concerns about the ENERGY STAR certification of their home. The purpose of a Certification Review is to determine whether a home should maintain its ENERGY STAR certification. There are two possible outcomes: (1) the home will maintain its ENERGY STAR certification or (2) the home's ENERGY STAR certification will be withdrawn. Learn more at energystar.gov/partner-resources/residential-new/certification-review.

Certification Review Process

When a Home Certification Organization (HCO)¹ receives an eligible homeowner inquiry, the HCO will initiate a Certification Review of the home and assign it to an appropriate individual according to the HCO's policies. The assigned reviewer shall complete the Certification Review within 60 days by performing the following steps.

- 1. Collect Documentation. Collect all pertinent documentation using the Document Collection sections of the Quality Assurance Checklist and Certification Review Supplement Checklist. Inability to collect a required documentation item constitutes a failure, in which case proceed directly to Step 3: preparing the certification review report.
- Perform Home Inspection. Coordinate a time with the homeowner to inspect the home. During that inspection, complete the remainder of the Quality Assurance Checklist and Certification Review Supplement Checklist based on observations of the current state of the home.
- 3. Prepare Certification Review Report. Prepare a report that includes the completed Quality Assurance Checklist and Certification Review Supplement Checklist, documented observations of the home's current state, and a determination of whether the Certification Review passes or fails. Share a copy of the report with the HCO, which will in turn provide a copy to the homeowner.

If the assigned reviewer determines that the Certification Review fails, the ENERGY STAR certification of the home shall be withdrawn.

If the assigned reviewer determines that the Certification Review passes, the ENERGY STAR certification of the home shall be maintained. In that case, the homeowner has the opportunity to appeal the determination. Refer to the HCO's policies for details on the appeals process.

Instructions for Performing Certification Review

This document should be used in conjunction with the applicable ENERGY STAR Certified Homes Program Requirements, Rater Design Review Checklist, Rater Field Checklist, HVAC Design Report, HVAC Commissioning Checklist, and Water Management System Builder Requirements. Additional program requirements may be inspected and included in the Additional Checklist Items and Exemptions table above. Alternatives and exceptions in those documents, including those in the footnotes, should be considered where applicable. Where a program revision or policy record entry has lowered the stringency of a requirement, the most recent policy may be used, even if it was not in place at the time of original certification.

In general, the benefit of doubt should be given to the original rating unless it is definitively clear that a requirement was not met at time of certification. The assigned reviewer should apply judgment in accounting for normal aging of construction materials over time, such as the settling of blown insulation. For example, for item 4.9 of the National Rater Field Checklist, the focus should be on the *presence* of weatherstripping on doors rather than the current *efficacy* of the weatherstripping. The Certification Review Supplement Checklist modifies performance thresholds for certain checklist Items to account for these types of aging effects.

Homes are eligible for Certification Review only if there have been no significant structural changes to the home since it was built. If such modifications are observed, the assigned reviewer has the prerogative to suspend the inspection and share documentation of the observed modifications with the HCO in lieu of the Certification Review Report.

If any individual item on the Rater Quality Assurance Checklist or Certification Review Supplement Checklist is marked as "No", the Certification Review is considered to have failed.

Guidance on Destructive Testing

At the behest of the homeowner, destructive testing may be used to inspect items that would otherwise not be visible. For example, if it were suspected that no insulation was installed in an exterior wall, observation holes could be drilled in the interior gypsum board. The homeowner bears complete responsibility for arranging all demolition and repair for destructive testing that they elect to undertake. Before undertaking destructive testing, it is recommended that homeowners consult with a qualified expert who can use non-invasive methods like infrared imaging to prioritize areas of concern. Demolition work, such as drilling observation holes, must occur in the presence of the assigned reviewer performing the Certification Review. Areas that are exposed outside the presence of the assigned reviewer shall be ignored for the purpose of the Certification Review.

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Certification Review Supplement Checklist

Doodiniontation	1 Collection		Yes	No	N/A	4	
If Track B – HVAC	Credential pursued, HVAC Commission	ning Checklist collected, with no applicable Items left blank					
Energy Rating	File – File is consistent with program r	equirements, Rater's documentation, and field observations.	•				
Energy Rating file	passes the Home Certification Organiz	ation's (HCO's) Certification Review checklist. 1			-		
Rater Field Checklist					Not Verified	N/A	
1.2 If item 3.1 of the following levels	: 4	met using item 3.1.2, infiltration is permitted to meet the					
	Infiltration Limit (ACH50) ≤	4.0 ≤ 3.5 ≤ 3.0 ≤ 2.5					
6. Duct Quality In				ı	1		
6.2 Measured pres Pa and ≤ 8 Pa		Pa or, for bedrooms with a design airflow ≥ 150 CFM, ≥ -8				-	
	duct leakage is permitted to meet ≤ 12 ee or more returns, ≤ 16 CFM25 per 10	CFM25 per 100 sq. ft. of CFA or \leq 120 CFM or, for a duct 00 sq. ft. of CFA or \leq 180 CFM. 3					
6.5 Measured duct	leakage to outdoors is permitted to me	eet ≤ 6 CFM25 per 100 sq. ft. of CFA or ≤ 60 CFM25. ³					
7. Whole-House	Mechanical Ventilation System						
7.1 Measured vent	ilation rate is permitted to be within ± 2	5 CFM or ± 25% of design value (2.3). ³				-	
7.3 If outdoor inlet ventilation off-control permissible for							
is ECM / ICM o	or the controls will reduce the run-time butrols are <i>capable</i> of meeting these critic	n HVAC fan operation is intermittent and either the fan type by accounting for HVAC system heating or cooling hours. As eria, it is permissible for the control's settings to differ at the					
8. Local Mechan	ical Exhaust						
		eet one of the following measured airflow standards: ³					
		eet one of the following measured airflow standards: ³ Intermittent Rate					
Kitchen & bathroor	m exhausts systems are permitted to m						
Kitchen & bathroon Location	m exhausts systems are permitted to m Continuous Rate ≥ 3 ACH,	Intermittent Rate ≥ 60 CFM and, if not integrated with range,				-	
Kitchen & bathroom Location 8.1 Kitchen 8.2 Bathroom	n exhausts systems are permitted to m Continuous Rate ≥ 3 ACH, based on kitchen volume ²	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM			Not	- - N/A	
Kitchen & bathroon Location 8.1 Kitchen 8.2 Bathroom Water Manager	m exhausts systems are permitted to m Continuous Rate ≥ 3 ACH, based on kitchen volume ² ≥ 12 CFM	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM				- - N/A	
Kitchen & bathroom Location 8.1 Kitchen 8.2 Bathroom Water Manager 1. Water-Manager	m exhausts systems are permitted to m Continuous Rate ≥ 3 ACH, based on kitchen volume ² ≥ 12 CFM ment System Builder Requirem d Site and Foundation rch slabs, walks, and driveways sloped	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM			Not	- - N/A	
Kitchen & bathroon Location 8.1 Kitchen 8.2 Bathroom Water Manager 1. Water-Manager 1.1 Patio slabs, poft., whichever is	m exhausts systems are permitted to m Continuous Rate ≥ 3 ACH, based on kitchen volume ² ≥ 12 CFM ment System Builder Requirem d Site and Foundation rch slabs, walks, and driveways sloped	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM ents ≥ 0.25 in. per ft. away from home to edge of surface or 10	Yes	□ No	Not Verified		
Kitchen & bathroon Location 8.1 Kitchen 8.2 Bathroom Water Manager 1. Water-Manager 1.1 Patio slabs, po ft., whichever is 1.2 Final grade slo	continuous Rate ≥ 3 ACH, based on kitchen volume ² ≥ 12 CFM ment System Builder Requirem and Site and Foundation rich slabs, walks, and driveways sloped is less.	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM ents ≥ 0.25 in. per ft. away from home to edge of surface or 10 or ≥ 10 ft. ^{2,3}	Yes	No □	Not Verified		
Kitchen & bathroon Location 8.1 Kitchen 8.2 Bathroom Water Manager 1. Water-Manager 1.1 Patio slabs, po ft., whichever is 1.2 Final grade slo 1.7 Sump pump co	continuous Rate ≥ 3 ACH, based on kitchen volume 2 ≥ 12 CFM ment System Builder Requirem and Site and Foundation rich slabs, walks, and driveways sloped is less. ped ≥ 0.25 in. per ft. away from home for	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM ents ≥ 0.25 in. per ft. away from home to edge of surface or 10 or ≥ 10 ft. ^{2,3}	Yes	No	Not Verified		
Kitchen & bathroom Location 8.1 Kitchen 8.2 Bathroom Water Manager 1. Water-Manager 1.1 Patio slabs, po ft., whichever is 1.2 Final grade slo 1.7 Sump pump co 2. Water-Manager 2.1 Flashing at bot	Continuous Rate ≥ 3 ACH, based on kitchen volume ² ≥ 12 CFM ment System Builder Requirem d Site and Foundation rch slabs, walks, and driveways sloped seless. ped ≥ 0.25 in. per ft. away from home for the state of the selection of the sel	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM ents ≥ 0.25 in. per ft. away from home to edge of surface or 10 or ≥ 10 ft. ². ³ sket seal or equivalent. cluded for masonry veneer, or equivalent drainage system.	Yes	No	Not Verified		
Kitchen & bathroom Location 8.1 Kitchen 8.2 Bathroom Water Manager 1. Water-Manager 1.1 Patio slabs, po ft., whichever is 1.2 Final grade slo 1.7 Sump pump co 2. Water-Manager 2.1 Flashing at bot See footnote o	Continuous Rate ≥ 3 ACH, based on kitchen volume ² ≥ 12 CFM ment System Builder Requirem rd Site and Foundation rch slabs, walks, and driveways sloped seless. ped ≥ 0.25 in. per ft. away from home for the sum of exterior walls with weep holes in the sum of exterior walls with the sum of exterio	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM ents ≥ 0.25 in. per ft. away from home to edge of surface or 10 or ≥ 10 ft. ². ³ sket seal or equivalent. cluded for masonry veneer, or equivalent drainage system.	Yes	No O	Not Verified	-	
Kitchen & bathroom Location 8.1 Kitchen 8.2 Bathroom Water Manager 1. Water-Manager 1.1 Patio slabs, po ft., whichever is 1.2 Final grade slo 1.7 Sump pump co 2. Water-Manager 2.1 Flashing at bot See footnote o 3. Water-Manager 3.2 For homes that downspouts pr	Continuous Rate ≥ 3 ACH, based on kitchen volume ² ≥ 12 CFM ment System Builder Requirem rch slabs, walks, and driveways sloped is less. ped ≥ 0.25 in. per ft. away from home for the slabs walks are the slabs with full gased Wall Assembly tom of exterior walls with weep holes in the Water Management System Build rd Roof Assembly tom of Assembly	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM ents ≥ 0.25 in. per ft. away from home to edge of surface or 10 or ≥ 10 ft. ². ³ sket seal or equivalent. cluded for masonry veneer, or equivalent drainage system.	Yes	No O	Not Verified	-	
Kitchen & bathroom Location 8.1 Kitchen 8.2 Bathroom Water Manager 1. Water-Manager 1.1 Patio slabs, ponts, whichever is 1.2 Final grade slo 1.7 Sump pump conts 2. Water-Manager 2.1 Flashing at both See footnote on See footnote	Continuous Rate ≥ 3 ACH, based on kitchen volume ² ≥ 12 CFM ment System Builder Requirem rch slabs, walks, and driveways sloped is less. ped ≥ 0.25 in. per ft. away from home for the slabs walks are the slabs with full gasted Wall Assembly tom of exterior walls with weep holes in the Water Management System Build rd Roof Assembly tom of the verse a slab-on-grade foundation ovided that empty to lateral piping that	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM ents ≥ 0.25 in. per ft. away from home to edge of surface or 10 or ≥ 10 ft. ^{2, 3} sket seal or equivalent. cluded for masonry veneer, or equivalent drainage system. der Requirements for exemptions. ² and do have expansive or collapsible soils, gutters &	Yes	No O	Not Verified	-	
Kitchen & bathroom Location 8.1 Kitchen 8.2 Bathroom Water Manager 1. Water-Manager 1.1 Patio slabs, ponts, whichever is 1.2 Final grade slo 1.7 Sump pump conts 2. Water-Manager 2.1 Flashing at both See footnote on See footnote on See footnote on the downspouts produndation, or the downspouts produced the downspout	Continuous Rate ≥ 3 ACH, based on kitchen volume ² ≥ 12 CFM ment System Builder Requirem rch slabs, walks, and driveways sloped is less. ped ≥ 0.25 in. per ft. away from home fowers mechanically attached with full gated Wall Assembly tom of exterior walls with weep holes in the Water Management System Builder Requirem and Wall Assembly tom of exterior walls with weep holes in the Water Management System Builder Red Roof Assembly to don't have a slab-on-grade foundation ovided that empty to lateral piping that to underground catchment system. ²	Intermittent Rate ≥ 60 CFM and, if not integrated with range, also ≥ 3 ACH based on kitchen volume ² ≥ 30 CFM ents ≥ 0.25 in. per ft. away from home to edge of surface or 10 or ≥ 10 ft. ². ³ sket seal or equivalent. cluded for masonry veneer, or equivalent drainage system. der Requirements for exemptions. ² and do have expansive or collapsible soils, gutters & discharges water on sloping final grade ≥ 5 ft. from	Yes	No O	Not Verified	-	

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Footnotes

- 1. Home Certification Organizations (HCOs) are independent organizations recognized by EPA to implement an ENERGY STAR certification program for single-family and multifamily homes and apartments using an Energy Rating Index (ERI) compliance path. Learn more and find a current list of HCOs at energystar.gov/partner_resources/residential_new/working/other_participants/hco.
- 2. Where the checklist item cannot be verified because it is not visible, not accessible, cannot be tested, or there are other extenuating circumstances, mark the box in the column "Not Verified," and include an explanation in an attached document.
- 3. This item has been edited for space or has a footnote with an exemption or alternative. Refer to referenced program document for full details. When an item is properly met using an exemption or alternative, mark the item as "Yes" and record a description in the Additional Checklist Items and Exemptions table.
- 4. This requirement is modified from the original program requirement in order to be applicable in the context of a finished home.

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