

## ENERGY STAR Certified Homes, Version 3 / 3.1 (Rev. 08) Water Management System Builder Checklist 1

- Builder Responsibilities:

  It is the exclusive responsibility of builders to ensure that each certified home is constructed to meet these requirements.

  The exclusive responsibility of builders to ensure that each certified home is constructed to meet these requirements. While builders are not required to maintain documentation demonstrating compliance for each individual certified home, builders are required to develop a process to ensure compliance for each certified home (e.g., incorporate these requirements into the Scope of Work for relevant sub-contractors, require the site supervisor to inspect each home for these requirements, and / or sub-contract the verification of these requirements to a Rater).
  - In the event that the EPA determines that a certified home was constructed without meeting these requirements, the home may be

Home Address: 15 Longfellow the City: Chartargua State	NY	Zip Code	: 1472	25
1. Water-Managed Site and Foundation	Must Correct	Builder Verified	Rater Verified	N/A
1.1 Patio slabs, porch slabs, walks, and driveways sloped ≥ 0.25 in. per ft. away from home to edge of surface or 10 ft., whichever is less. <sup>2</sup>		M		0
1.2 Back-fill has been tamped and final grade sloped ≥ 0.5 in. per ft. away from home for ≥ 10 ft. See Footnote for alternatives. <sup>2</sup>		図	0	0
1.3 Capillary break beneath all slabs (e.g., slab on grade, basement slab) except crawlspace slabs using either: ≥ 6 mil polyethylene sheeting, lapped 6-12 in., or ≥ 1 in. extruded polystyrene insulation with taped joints. <sup>3,4,5</sup>	0	ØP	0	0
1.4 Capillary break at all crawlspace floors using ≥ 6 mil polyethylene sheeting, lapped 6-12 in., & installed using	ng one of	the following	ng opt's: 3	3, 4, 5
1.4.1 Placed beneath a concrete slab; OR,		ØΡ		
1.4.2 Lapped up each wall or pier and fastened with furring strips or equivalent; OR,		TAP .		1496
1.4.3 Secured in the ground at the perimeter using stakes.		ΠĖ		也
1.5 Exterior surface of below-grade walls of basements & unvented crawlspaces finished as follows:  (a) For poured concrete, masonry, & insulated concrete forms, finish with damp-proofing coating. 6 Marty b) For wood framed walls, finish with polyethylene and adhesive or other equivalent waterproofing.	0	ØP.	0	0
1.6 Class 1 vapor retarder not installed on interior side of air permeable insulation in ext. below-grade walls. 7		<b>⋈</b>		
1.7 Sump pump covers mechanically attached with full gasket seal or equivalent.		Ø		
1.8 Drain tile installed at basement and crawlspace walls, with the top of the drain tile pipe below the bottom of the concrete slab or crawlspace floor. Drain tile surrounded with ≥ 6 in. of ½ to ¾ in. washed or clean gravel and with gravel layer fully wrapped with fabric cloth. Drain tile level or sloped to discharge to outside grade (daylight) or to a sump pump. If drain tile is on interior side of footing, then channel provided through footing to exterior side. 8		Ģ₽	0	
2. Water-Managed Wall Assembly				
2.1 Flashing at bottom of exterior walls with weep holes included for masonry veneer and weep screed for stucco cladding systems, or equivalent drainage system. 9		₩.		
2.2 Fully sealed continuous drainage plane behind exterior cladding that laps over flashing in Item 2.1 and fully sealed at all penetrations. Additional bond-break drainage plane layer provided behind all stucco and non-structural masonry cladding wall assemblies. 9, 10	0	ЯP	0	0
2.3 Window and door openings fully flashed. 11		Ø		
3. Water-Managed Roof Assembly				
3.1 Step and kick-out flashing at all roof-wall intersections, extending ≥ 4" on wall surface above roof deck and integrated shingle-style with drainage plane above; boot / collar flashing at all roof penetrations. 12	0	The		_
3.2 For homes that don't have a slab-on-grade foundation and do have expansive or collapsible soils, gutters & downspouts provided that empty to lateral piping that discharges water on sloping final grade ≥ 5 ft. from foundation, or to underground catchment system not connected to the foundation drain system that discharges water ≥ 10 ft. from foundation. See Footnote for alternatives & exemptions. 3,13,14	0	. 🖫 P	0	0
3.3 Self-adhering polymer-modified bituminous membrane at all valleys & roof deck penetrations. <sup>3, 15</sup>		Ø₽		
3.4 In 2009 IECC Climate Zones 5 & higher, self-adhering polymer-modified bituminous membrane over sheathing at eaves from the edge of the roof line to > 2 ft. up roof deck from the interior plane of the exterior wall. <sup>3, 15</sup>		ΣP		
4. Water-Managed Building Materials		- PARTIE		Part I
4.1 Wall-to-wall carpet not installed within 2.5 ft. of toilets, tubs, and showers.		Ø		
4.2 Cement board or equivalent moisture-resistant backing material installed on all walls behind tub and shower enclosures composed of tile or panel assemblies with caulked joints. Paper-faced backerboard shall not be used. 16	0	Ø	0	0
4.3 In Warm-Humid climates, Class 1 vapor retarders not installed on the interior side of air permeable insulation in above-grade walls, except at shower and tub walls.		_		Ø
4.4 Building materials with visible signs of water damage or mold not installed or allowed to remain. 17		包		
4.5 Framing members & insulation products having high moisture content not enclosed (e.g., with drywall) 18		ÓĐ-		
4.6 For each condensate-producing HVAC component, corrosion-resistant drain pan (e.g., galvanized steel, plastic) included that drains to a conspicuous point of disposal in case of blockage. Backflow prevention valve included if connected to a shared drainage system.		Þ		0
Builder Employee: Builder Signature:				
Builder has completed Builder Checklist in its entirety, except for items that are checked in the Rater Verified of Rater Signature:  Date:				



## National Rater Field Checklist ENERGY STAR Certified Homes, Version 3 / 3.1 (Rev. 09)

Home Address: 15 Longfellow	City:	Mayville	State: NY	P	ermit Date:					
Thermal Enclosure System				Must Correct	Builder Verified <sup>1</sup>	Rater Verified <sup>2</sup>	N/A <sup>3</sup>			
1. High-Performance Fenestration & Insulation										
1.1 Fenestration meets or exceeds specification in Item 2.1						~	-			
1.2 Insulation meets or exceeds specification in Item 3.1 of	the Natio	onal Rater Design	n Review Checklist			V	-			
1.3 All insulation achieves Grade I install. per ANSI / RESNI	ET / ICC	Std. 301. Alterna	tives in Footnote 4. 4,5			V	-			
2. Fully-Aligned Air Barriers <sup>6</sup> At each insulated location	below, a	complete air bar	rier is provided that is fu	ılly align	ed as follow	s:				
Ceilings: At interior or exterior horizontal surface of ceiling insulation in Climate Zones 1-3; at interior horizontal surface of ceiling insulation in Climate Zones 4-8. Also, at exterior vertical surface of ceiling insulation in all climate zones (e.g., using a wind baffle that extends to the full height of the insulation in every bay or a tabbed baffle in each bay with a soffit vent that prevents wind washing in adjacent bays).										
2.1 Dropped ceilings / soffits below unconditioned attics, an						~				
Walls: At exterior vertical surface of wall insulation in all clim	ate zone	es; also at interior	vertical surface of wall	insulatio	n in Climate	Zones 4-	88			
2.2 Walls behind showers, tubs, staircases, and fireplaces						~				
2.3 Attic knee walls and skylight shaft walls <sup>9</sup>						~				
2.4 Walls adjoining porch roofs or garages						~				
2.5 Double-walls and all other exterior walls						V	L -			
Floors: At exterior vertical surface of floor insulation in all climate zones and, if over unconditioned space, also at interior horizontal surface including supports to ensure alignment. Alternatives in Footnotes 11 & 12. 10, 11, 12										
2.6 Floors above garages, floors above unconditioned base	ments or	crawlspaces, an	d cantilevered floors			~				
2.7 All other floors adjoining unconditioned space (e.g., rim	band joi	sts at exterior wa	all or at porch roof)			~				
Reduced Thermal Bridging     The insulated ceilings with attic space above (i.e., non-ceilings).						v				
inside face of the exterior wall below and is ≥ R-21 in C.  3.2 For slabs on grade in CZ 4-8, 100% of slab edge insula	ted to ≥ F									
IECC and aligned with the thermal boundary of the wall		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	45 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -							
3.3 Insulation beneath attic platforms (e.g., HVAC platforms						<u> </u>	16			
3.4 At above-grade walls separating conditioned from unco			e following options used	rim / b	and joists e	xempted):	16			
3.4.1 Continuous rigid insulation, insulated siding, or co ≥ R-3 in CZ 1-4; ≥ R-5 in CZ 5-8 <sup>17, 18, 19</sup> , <b>OR</b> ;			47.00			~				
3.4.2 Structural Insulated Panels OR; Insulated Concre		OR; Double-wal	I framing <b>OR</b> ; 17,20				V			
3.4.3 Advanced framing, including all of the Items below	v: <sup>21</sup>									
3.4.3a Corners insulated ≥ R-6 to edge <sup>22</sup> , <b>AND</b> ;							V			
3.4.3b Headers above windows & doors insulated ≥ F and ≥ R-5 for all other assemblies (e.g., with 2	x6 framii	ng) <sup>23</sup> , <b>AND</b> ;					V			
3.4.3c Framing limited at all windows & doors to one per window opening to support the header and	d sill, AN	D;					~			
3.4.3d Interior / exterior wall intersections insulated to							V			
3.4.3e Minimum stud spacing of 16 in. o.c. for 2x4 fra in CZ 6-8, 24 in. o.c. for 2x6 framing <sup>25</sup>	ming in a	all Climate Zones	and,				V			
4. Air Sealing (Unless otherwise noted below, "seale				/alent n	naterial)					
4.1 Ducts, flues, shafts, plumbing, piping, wiring, exhaust fa space sealed, with blocking / flashing as needed						~	-			
4.2 Recessed lighting fixtures adjacent to unconditioned spa insulated ceiling without attic above, exterior surface of	fixture in	sulated to ≥ R-10	) in CZ 4-8.			V				
4.3 Above-grade sill plates adjacent to conditioned space se placed beneath above-grade sill plate if resting atop con	ealed to fo ncrete / n	oundation or sub nasonry & adjace	-floor. Gasket also ent to cond. space <sup>26,27</sup>			V				
4.4 Continuous top plate or blocking is at top of walls adjoin	ning unco	onditioned space	, and sealed			V				
4.5 Drywall sealed to top plate at all unconditioned attic / wa adhesive (but not other construction adhesives), or equ between drywall and top plate or to the seam between t	ivalent m	aterial. Either ap	ply sealant directly			V				
4.6 Rough opening around windows & exterior doors sealed						V	-			
Walls that separate attached garages from occupiable s     and sealed at floor cavities aligned with these walls		lled and, also, an	air barrier installed			~				
In multifamily buildings, the gap between the common w structural framing between units sealed at all exterior bo			wall) and the				V			
4.9 Doors adjacent to unconditioned space (e.g., attics, gar substantially air-tight with weatherstripping or equivalen	ages, ba	sements) or amb	ient conditions made			V				
4.10 Attic access panels, drop-down stairs, & whole-house figasketed (i.e., not caulked). Fan covers either installed						V				



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HVAC System <sup>30</sup> (National HVAC Design Report Item # in parenthesis)					Must	Rater	N/A <sup>3</sup>	
5. Heating & Cooling Equipment					Correct	Verified <sup>2</sup>		
5.1 HVAC manufacturer & model number on installed equipment matches either of the following (check box): 31							V	-
☑ National HVAC Design Report (4.3, 4.4, & 4.17) ☑ Written approval received from designer								
5.2 External static pressure measured by Rater at contractor-provided test locations and documented below: 32					V			
	e External Stat			-Side External Static Pressure:	_IWC			
		-		klist collected, with no items left blank				V
	-			ation, Exhaust, & Pressure Balancing Du	cts, Un	less Not	ed in Foot	tnote
6.1 Ductwork in	nstalled withou	t kinks, sharp bends, compression	ons, or	excessive coiled flexible ductwork 33			~	
				ucts, dedicated return ducts, undercut doors				
				Pa with respect to the main body of the hoternative compliance option in Footnote 34.			V	-
								V
6.3 All supply and return ducts in unconditioned space, including connections to trunk ducts, are insulated to ≥ R-6 <sup>35</sup> □ 6.4 Rater-measured total duct leakage meets one of the following two options. Alternative in Footnote 37: <sup>36, 37, 38</sup>								
				≤ 40 CFM25, with air handler & all ducts,				
building	g cavities used	as ducts, & duct boots installed.		ition, all duct boots sealed to finished surface	ce,			V
	verified at final.							
				0 CFM25, with the air handler & all ducts, b			V	
				finished surface (e.g., drywall, floor) installe 25 per 100 sq. ft. of CFA or ≤ 40 CFM25 <sup>36,</sup>		_	- -	$\overline{}$
		al Ventilation System	4 CFIVI	25 per 100 sq. it. of CFA of \$ 40 CFM25	,		<u> </u>	
		n rate is within either ± 15 CFM o	or +15%	4 of design value (2.3) 42			V	-
				labeled if its function is not obvious (e.g., a	lahel			-
				s on the ventilation equipment) 43	label		V	-
				em, unless controls are installed to operate				
intermittently & automatically based on a timer and to restrict intake when not in use (e.g., motorized damper)				~	-			
		es if intermittent and ≤ 1 sone if co					~	-
7.5 If system utilizes the HVAC fan, then the specified fan type is ECM / ICM (4.7), or the controls will reduce the				V				
standalone ventilation run-time by accounting for hours when the HVAC system is heating or cooling  7.6 Bathroom fans are ENERGY STAR certified if used as part of the whole-house system 45				_	~			
7.7 Air inlet location (Complete if ventilation air inlet location was specified (2.12, 2.13); otherwise check "N/A"): 46, 47								
7.7.1 Inlet pulls ventilation air directly from outdoors and not from attic, crawlspace, garage, or adjacent dwelling unit				~	-			
				tring distance from known contamination so				
(e.g., stack, vent, exhaust, vehicles) not exiting the roof, and ≥ 3 ft. distance from dryer exhausts and sources				V	-			
exiting the roof								
<ul> <li>7.7.3 Inlet is provided with rodent / insect screen with ≤ 0.5 inch mesh</li> <li>8. Local Mechanical Exhaust - In each kitchen and bathroom, a system is installed that exhausts directly to the outdo</li> </ul>					V	-		
8. Local Mech	anicai Exnau			stem is installed that exhausts directly to thow and manufacturer-rated sound level stan			neets one	OT
Location		Continuous Rate	o anno	Intermittent Rate 49	dui do.			
	A: 0	≥ 5 ACH.		≥ 100 CFM and, if not integrated with range	ie.			
8.1 Kitchen	Airflow	based on kitchen volume 50, 51		also ≥ 5 ACH based on kitchen volume 50,	51, 52		V	-
	Sound	Recommended: ≤ 1 sone		Recommended: ≤ 3 sones				
8.2 Bathroom	Airflow	≥ 20 CFM		≥ 50 CFM			V	
	Sound	Required: ≤ 1 sone		Recommended: ≤ 3 sones				
9. Filtration								
9.1 At least one MERV 6 or higher filter installed in each ducted mechanical system in a location that facilitates access and regular service by the ocupant 53			ccess					
9.2 Filter access panel includes gasket or comparable sealing mechanism and fits snugly against the exposed edge of			dge of		V			
filter when closed to prevent bypass 54								
9.3 All return air and mechanically supplied outdoor air passes through filter prior to conditioning						ш		
10. Combustion Appliances								
10.1 Furnaces, boilers, and water heaters located within the home's pressure boundary are mechanically drafted or direct-vented. Alternatives in Footnote 57. 55, 56, 57				V				
10.2 Fireplaces located within the home's pressure boundary are mechanically drafted or direct-vented. Alternatives in Footnote 59. 55,56,58			~					
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,			~					
		,,	ified th	e equipment meets the limits defined within				Щ
Rater Name: <u>Jason Puffenbarger</u> Rater Pre-Drywall Inspection Date: <u>4-12-19</u> Rater Initials: <u>JP</u>						-		
Rater Name: Jason Puffenbarger Rater Final Inspection Date: 10-2-20 04/29/21 Rater Initia			nitials: <u>J</u> l	Ρ	-			
Builder Employ	ee:		Builde	er Inspection Date:	Builde	r Initials:		