



ENERGY STAR + Indoor airPLUS





HVAC

Moisture

CO



Radon

Pests

Materials

HVAC+

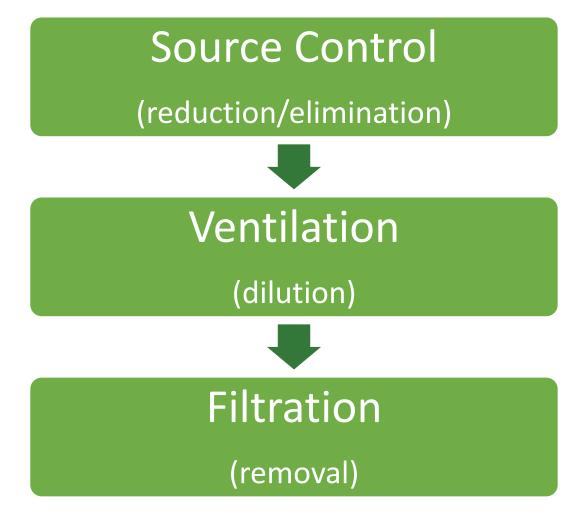
Moisture +

CO +



- 1. Better durability
- 2. Less long-term maintenance
- 3. Comprehensive indoor air quality protection
- 4. A safer, healthier home

Strategy for Creating a Safer Home by Reducing Health Risks From Poor IAQ





Indoor airPLUS Revision 4 Introduction & Checklist



Indoor airPLUS Version 1 (Rev. 04) Verification Checklist



Home Address: City:		States	Zip:		
Climate 2	Climate Zone (1-6): Radon Zone (1-3):				
Section	Requirements (Refer to full Indoor airPLUS Construction Specifications for details)	Must Correct	Builder Verified	Rater Verified	N/A
ENGY STAR V3	Note: The Rev. 04 checklist reflects only the additional Indoor airPLUS requirements a corresponding section numbers that must be met after completing the ENERGY STAR requirements. ENERGY STAR remains a prerequisite for Indoor airPLUS qualification.				
ENEB	ENERGY STAR Version 3 (or 3.1, 3.2) Program Requirements must be followed and the be ENERGY STAR certified in conjunction with Indoor air PLUS qualification.	home shall		0	

Section	ion Requirements (Refer to full Indoor airPLUS Construction Specifications for details)		Must Correct	Builder Verified	Rater Verified	N/A
adon	2.1	Radon-resistant features installed in Radon Zone 1 homes in accordance with Construction Specification 2.1.			V	
Ra		Exception Applied: Perimeter pipe loop in lieu of full aggregate (dry climate) 🗆 Manufactured home with raised pier foundation				

Radon Example:

- Passive system required in Radon Zone 1.
- 4" aggregate under slab . . .
 - Except in dry climates when a perimeter pipe loop is used.

			mand-surface mooning in excessio, patria, entry, launary, and distry rooms.					
ŀ		1.14	reard-surface recently in excessins, paints, entry, learnery, and drinty recent.	ш		6	\vdash	
Radon	E G	2.1	Radon-resistant features installed in Radon Zone 1 homes in accordance with Construction Specification 2.1.		0	_	_	
		Exception Applied: Perimeter pipe loop in lieu of full aggregate (dry climate) Manufactured home with raised pier foundation.						
	Pests	3.2	Corrosion-proof rodent/bird screens installed at all openings that cannot be fully sealed. (Not required for clothes dryer vents.)		0	0		
ı		4.1	Equipment selected to keep relative humidity < 60% in "Warm-Humid" climates.					
1			Exception Applied:					
	HVAC Systems	4.2	Duct systems protected from construction debris AND no building cavities used as air supplies or returns.	0	0	0		
	ű	4.3	No air-handling equipment or ductwork installed in garage.					
	ž	4.6	Clothes dryers vented to the outdoors or plumbed to a drain according to manufacturer's instructions.			0		
		4.7	Central forced-air HVAC system(s) have minimum MERV 8 filter AND no coone generators in home. Temporary filter installed to protect unit from construction dust.	0	0	0	0	
			Emissions standards met for fuel-burning and space-heating appliances.					
	Combustion Pollutants	5.1	Masonry heater					
	2	5.2	CO alarms installed in each sleeping zone (e.g., common hallway) according to NFPA 720.					
	proping	5.3	Multifamily buildings: Smoking restrictions implemented AND ETS transfer pathways minimized.		0	0	0	
	á		Attached garages: Door closer installed on all connecting doors.					
		5.4	Attached garages: In homes with exhaust-only whole-house ventilation EITHER 70 cfm exhaust fan installed in garage OR Pressure test conducted to verify the effectiveness of the garage-to-house air barrier.	0		0	0	

What Does Indoor airPLUS Cost?

- No fee to participate in the EPA program.
- Raters may charge a verification fee.
- Cost of additional Indoor airPLUS features will vary based on:
 - Local code requirements and typical building practices
 - Type of foundation (e.g., below grade foundation or slab on grade)
 - Climate Zone (e.g., some exceptions in dry climates)
 - Radon Zone (passive system required in Radon Zone 1)
 - Availability of suppliers and cost of materials
- Cost of additional features could be a few hundred dollars in dry, non-Radon Zone 1 areas or up to a few thousand dollars in moist climates in Radon Zone 1.

Indoor airPLUS as a Health Benchmark for High-Performance Homes

- IAP is respected as a benchmark for IAQ to protect occupant health in new homes.
- IAP is <u>required</u> by other labeling programs (Zero Energy Ready, PHIUS) as a pre-requisite.
- IAP is also referenced by LEED for Homes and the National Green Building Standard.









What About Existing Homes?

- Indoor airPLUS qualification is not available for existing homes except in the case of gut rehabs (if all ENERGY STAR requirements and Indoor airPLUS requirements are met).
- For most renovation and energy upgrade work, see EPA's <u>Healthy Indoor Environment Protocols for Home</u> <u>Energy Upgrades</u>.
- Renovating multifamily buildings? See <u>Energy Savings</u> <u>Plus Health: Multifamily Building Upgrades</u>.

More info at: https://www.epa.gov/indoor-air-quality-jag/protect-indoor-air-quality-your-home



Technical Assistance

- Specifications
- Webinars
- Online Resources and Tools
- Integration with DOE Building America Solution Center

















https://basc.pnnl.gov/

Resources and Tools

- Partner logos
- Co-brandable brochures
- Partner locator
- Website widgets
- 100% Commitment





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Sales and Marketing Resources: https://www.epa.gov/indoorairplus/indoor-airplus-sales-and-marketing-resources.

Partner logos and co-brandable resources in your https://www.epa.gov/indoorairplus/indoor-airplus-sales-and-marketing-resources.

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2018 Indoor airPLUS Leader Award Winner











FULTON HOMES

You're Proud To Own, We're Proud To Build!









2018 Indoor airPLUS Leader of the Year



FULTON HOMES

You're Proud To Own, We're Proud To Build!



- All 2019 Award Winners to be announced in August.
- Leaders of the Year Announced during Award Ceremony at:
 <u>EEBA Summit Oct 1-3 Denver, CO</u>

www.epa.gov/indoorairplus/indoor-airplus-leader-award-winners