

Indoor AirPlus Version 2

January 28, 2025

www.epa.gov/indoorairplus

Contact the Indoor AirPlus Team at
Indoor_AirPlus@epa.gov



Today's Speakers



Nick Hurst

Program Manager
Indoor AirPlus



Karla Butterfield

Sustainability Director
Steven Winter Associates



Gayathri Vijayakumar

Principal Mechanical Engineer
Steven Winter Associates

Today's Agenda

1. Introduction to Indoor AirPlus
2. What's New in Version 2
 - a) Tiered Certification
 - b) IAP Partner Training
 - c) QA/QC and HCO oversight
3. Highlights of Technical Requirements
4. Getting to Gold
5. Case Study
6. Website tour
7. Awards & Marketing Resources



How familiar are you with Indoor AirPlus?

Raise your hand if . . . :

- A. I'm working on an IAP Version 2 project that is under construction.
- B. I've worked on IAP Version 1 homes and have followed Version 2 development (i.e., attended presentations, reviewed comment drafts).
- C. I haven't worked on IAP homes, but have a decent understanding of IAP V1 requirements.
- D. I'm not very familiar yet.



Indoor AirPlus Overview and the Launch of “Version 2”

Indoor AirPlus Program – EPA’s Indoor Environments Div.

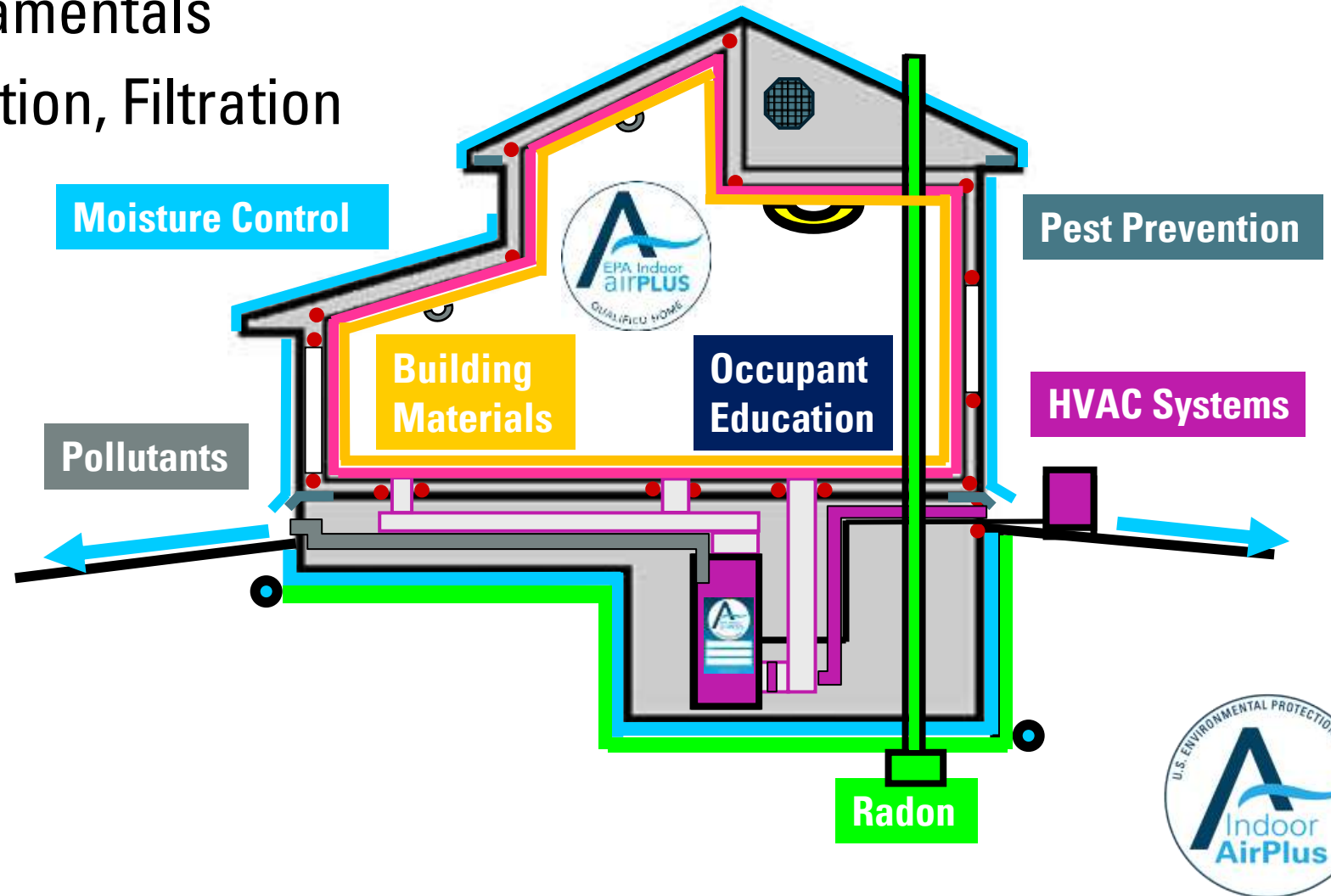


- The EPA’s non-regulatory, public/private partnership and certification program for IAQ
- Responds to consumer demand for healthier homes
- Market-driven; value for home buyers and home builders
- 3rd-party verification
- Construction specifications, technical support, partner marketing resources – free.
- V1 available till Jan 2026
- V2 and V2 Gold available now!

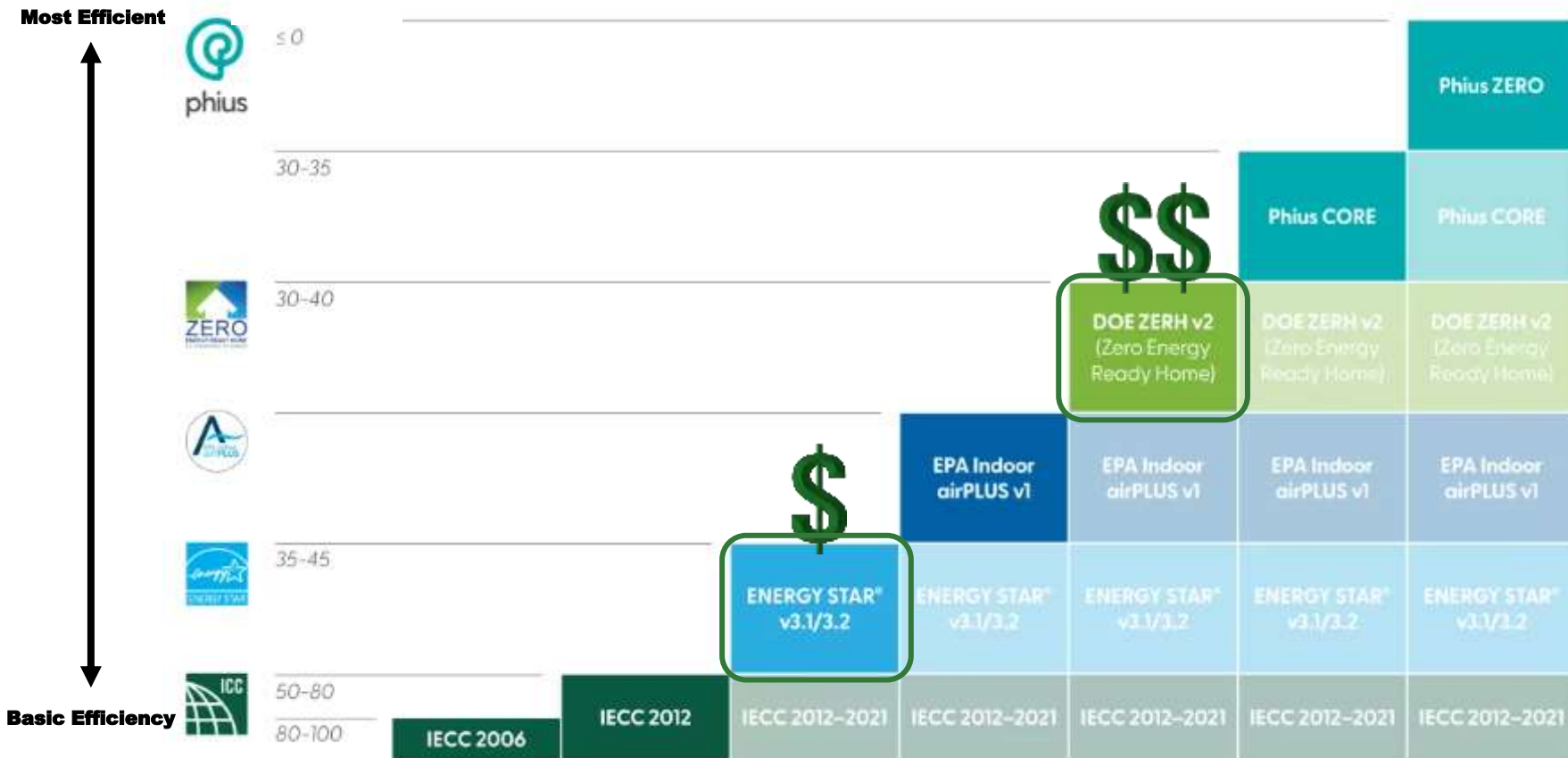
IAP Construction Specifications

- Building Science Fundamentals
- Source Control, Ventilation, Filtration
- House-as-a-System
- Seven sections:

1. Moisture Control
2. Radon
3. Pest Prevention
4. HVAC Systems
5. Pollutants
6. Building Materials
7. Occupant Education



High-Performance Residential Programs



- IAP is a benchmark for IAQ to protect occupant health in residences.
- Co-requisite for other certs. (DOE Zero Energy Ready Homes, PHIUS+).
- Tax credit opportunities.
- Referenced by LEED, the National Green Building Standard, Enterprise Green Communities, (and soon) WELL Residential.

Image Source: PHIUS



§ 45L Federal Tax Credit – ZERH requires Indoor AirPlus

Builder tax credit of up to \$5000/home with DOE ZERH certification.*

- Homes / Buildings with permit dates **on or before 12/31/2025** can certify under:
 - Indoor AirPlus Version 1, (Rev 4) or (Rev 5--soon), OR
 - Indoor AirPlus Version 2, Certified or Gold tier.
- Homes / Buildings with permit dates **on or after 01/01/2026** must certify under:
 - Indoor AirPlus Version 2, Certified or Gold tier.



*For DOE tax credit guidance, definition of “permit date,” and detailed ZERH program requirements, see: <https://www.energy.gov/eere/buildings/doe-zero-energy-ready-home-zerh-program-requirements>



What's New in Version 2

What's New in Version 2

- 2 tiers of label: Certified and Gold
- Improved specification requirements
- Stand-alone Certification Framework
 - Certification Protocol and System
 - National Program Requirements
 - Building eligibility
 - Training requirements
 - Certification process
- QA/QC by IAP HCOs
 - Pending release of final V2 Cert. System and HCO recognitions

The collage features several key documents from the EPA's Indoor airPLUS program:

- DRAFT**: Indoor airPLUS Certification System for Homes and Apartments. Effective: <DATE TBD>. U.S. Environmental Protection Agency, National Greening Division.
- Verification Requirements VERSION 2**: A document detailing the specific requirements for certification.
- Indoor AirPlus Certified Homes National Program Requirements, Version 2**: A document outlining the national program requirements, including eligibility, training, and certification processes.
- Indoor airPLUS Certified Quality Assurance Checklist, Version 2**: A detailed checklist for quality assurance, covering various aspects of building certification. A large 'QA/QC' watermark is overlaid on this document.

Tiered Certifications

Indoor AirPlus Certified

- A “home base” certification tier for IAQ in new homes, MF buildings, and gut-rehabs
- Site-built or modular buildings of all heights
- No other certification pre-requisites

Indoor AirPlus Gold Certified

- An “advanced” certification tier for IAQ and EE
- Eligible to homes and buildings earning ENERGY STAR (SFNH or MFNC) certification



Highlights of Technical Requirements

Section 1 – Moisture Control

Both Verifier and Builder have responsibilities for Moisture Control items.

Builder Responsibilities:

- It is the exclusive responsibility of builders to ensure that each certified home is constructed to meet the Indoor AirPlus requirements identified as “Builder Responsibility”.
- 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 sub-contractors, require a site supervisor to inspect each home for these requirements, and/or sub-contract the verification of these requirements to a Verifier).
- Builders are required to review these Items with a representative of the Verification Organization and attest to their compliance at least once per development/community using the IAP Builder Responsibilities form.
- In the event that the EPA determines that a certified home was constructed without meeting these requirements, the home may be decertified.

Verifier has received signed Builder Responsibilities document from Builder

Section 1 – Moisture Control		Must Correct	Verified	N/A
Water-Managed Site and Foundation				
1.1	1.1.1	Impermeable surfaces sloped \geq 0.25 in. per ft. away from the building.		
	1.1.2	Newly installed backfill tamped and final grade sloped \geq 0.5 in. per ft. Exception: ■ Swales/drains ■ Professional verified soils ■ Graded after settling		
1.2	1.2.1	Newly installed foundations, drain tile or CFDS is installed to discharge outside. Exceptions: ■ Professional verified Group I soils		
	1.2.2	Sump cover is mechanically attached.		
	1.2.3	Sump drainage discharges \geq 5 ft. from the foundation or into approved stormwater system. Exception: ■ Discharge professionally designed or verified Group I Soils		
1.3	1.3.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		In lowest area of basement or crawlspace, install floor drain with trap seal OR moisture monitoring system with audible alarm.		



Section 1 – Moisture Control

"Verifier has received signed Builder Responsibilities document from Builder"

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Section 1 – Moisture Control

Water-Managed Site and Foundation

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1.3	1.3.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Both

Builder

Verifier



Section 1 – Moisture Control

1.11	1.11.1 Newly installed roofing, CZ 4 and up, include ice barrier in accordance with 2021 IRC R905.1.2. Exception: ■ Gut rehabilitation with R-49 Grade I attic insulation, if vented.	Builder Responsibility		
	1.11.2 Gaps and penetrations between vented attics and conditioned spaces are sealed.	Builder Responsibility		
Interior Moisture Management				
1.12	1.12.1 Moisture-resistant backing material behind tub and shower enclosures with tile or panel assemblies.	Builder Responsibility		
1.13	1.13.1 Condensate-producing HVAC equipment provided with corrosion-resistant drain pan and backflow prevention valve (where applicable). Exception: □ Secondary drain system for equipment meets 2021 IMC 307.2.3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1.13.2 For tank type hot water heater/storage where leakage could cause damage, drain pan and drain OR on an impervious surface with drain OR detection system with shutoff included.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1.13.3 Non-vented clothes dryers plumbed to a drain.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.14	1.14.1 Supply water pipes in exterior building cavities insulated with ≥ R4 pipe wrap. Exceptions: □ CZ 1-3 in Dry (B) Zone □ Cavity insulation qualifies as air barrier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.15	1.15.1 Water-resistant flooring installed where moisture or splash damage could occur.	<input type="checkbox"/>	<input type="checkbox"/>	-
1.16	1.16.1 No Class I vapor retarders on interior side of vapor permeable insulation in below-grade, exterior walls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1.16.2 In Warm Humid counties, no Class I vapor retarders on the interior side of vapor permeable insulation in above-grade exterior walls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.17	1.17.1 Interior envelope inspection: moisture intrusion, leaks, and mold are not evident, or source is identified and remedied (gut rehabs only).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1.17.2 Exterior inspection: above-grade surfaces are free from degradation and potential moisture intrusion, or source is identified and remedied.	<input type="checkbox"/>	<input type="checkbox"/>	-

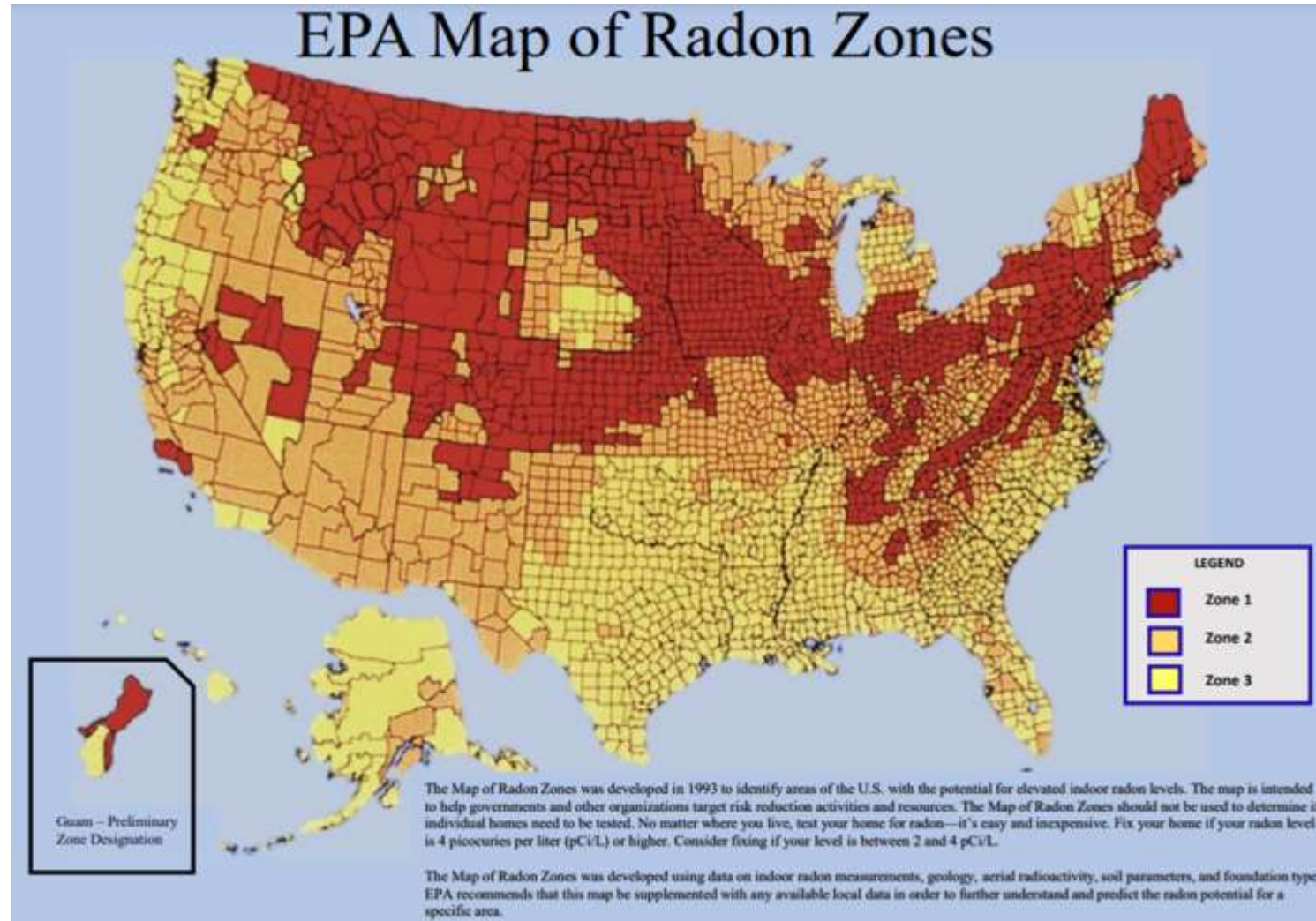
Builder



Verifier



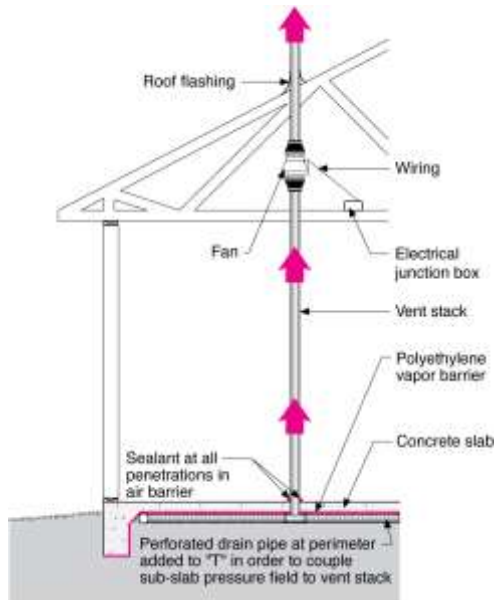
Section 2 - Radon



Section 2 - Radon

EPA Radon **Zone 1**:

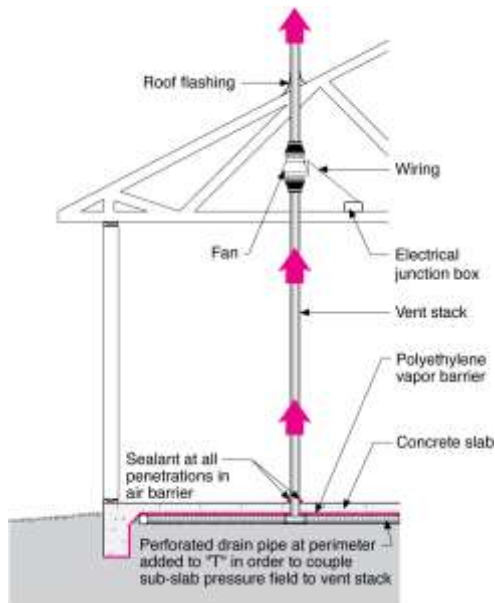
- *In IAP Version 1, only a passive system was required (no test)*
- Option 1: Install **active** system **without** a test;



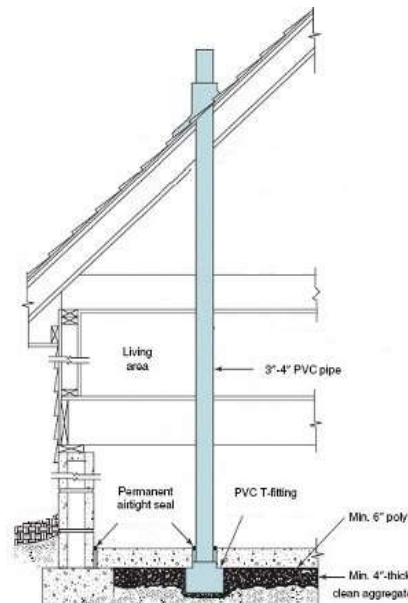
Section 2 - Radon

EPA Radon **Zone 1**:

- *In IAP Version 1, only a passive system was required (no test)*
- Option 1: Install **active** system **without** test; OR
- Option 2: Install a **passive** system **with** a test (< 4 pCi/L);



OR



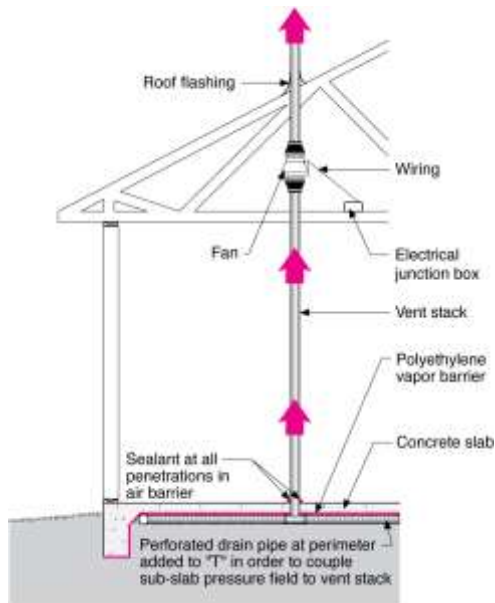
+



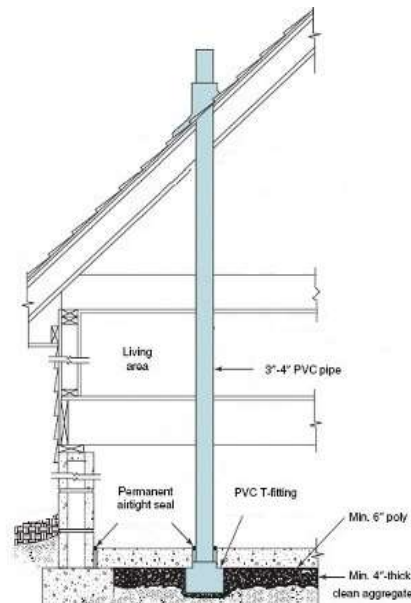
Section 2 - Radon

EPA Radon **Zone 2**:

- Option 1: Install active or passive system without a test; OR
- Option 2: No system, but test for radon (< 4 pCi/L)



OR

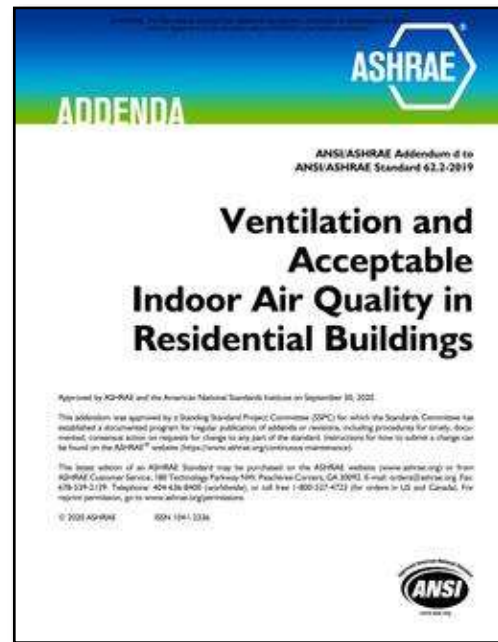
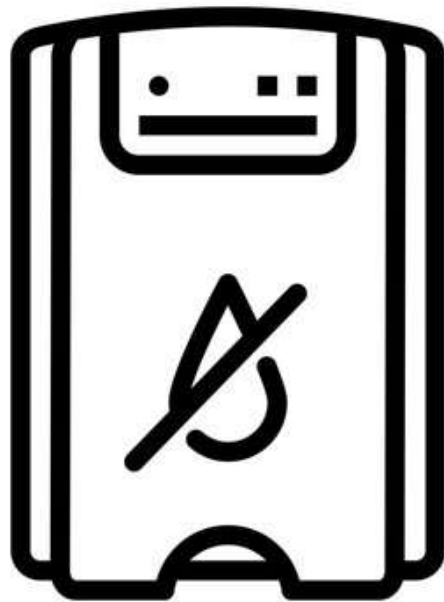


OR



Section 4 – HVAC Systems

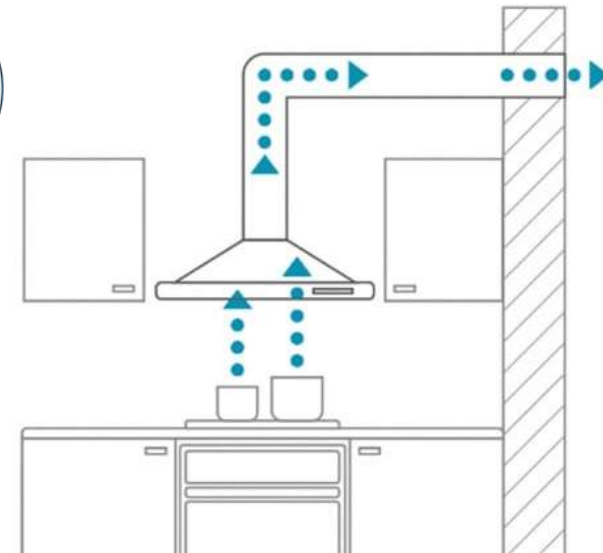
- Dehumidification requirements in Climate Zone 1A through 4A
- Dwelling-unit ventilation rates based on ASHRAE 62.2-2019
- Kitchen exhaust rates in one & two-family and townhouses (200-300 cfm)



200 cfm



300 cfm



Section 4 – HVAC Systems

- Minimum filtration ratings for ducted Heating & Cooling (HAC)
- Outdoor air (OA) requires filtration



MERV 8



MERV 13



MERV 11

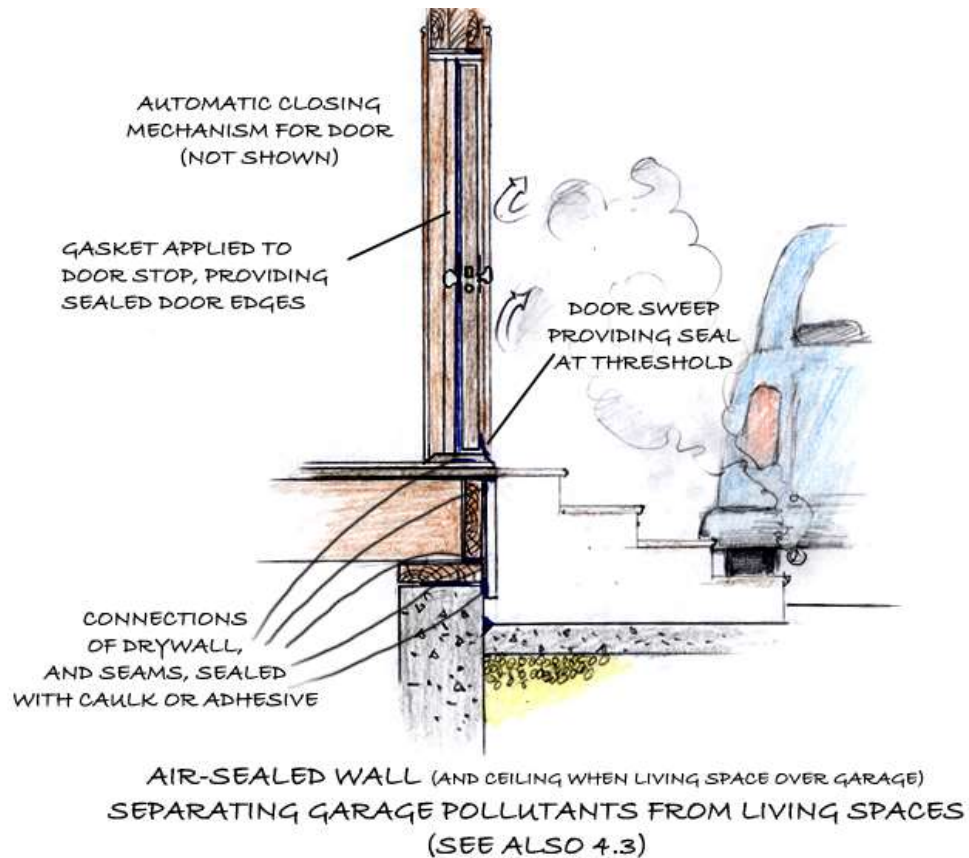


MERV 13



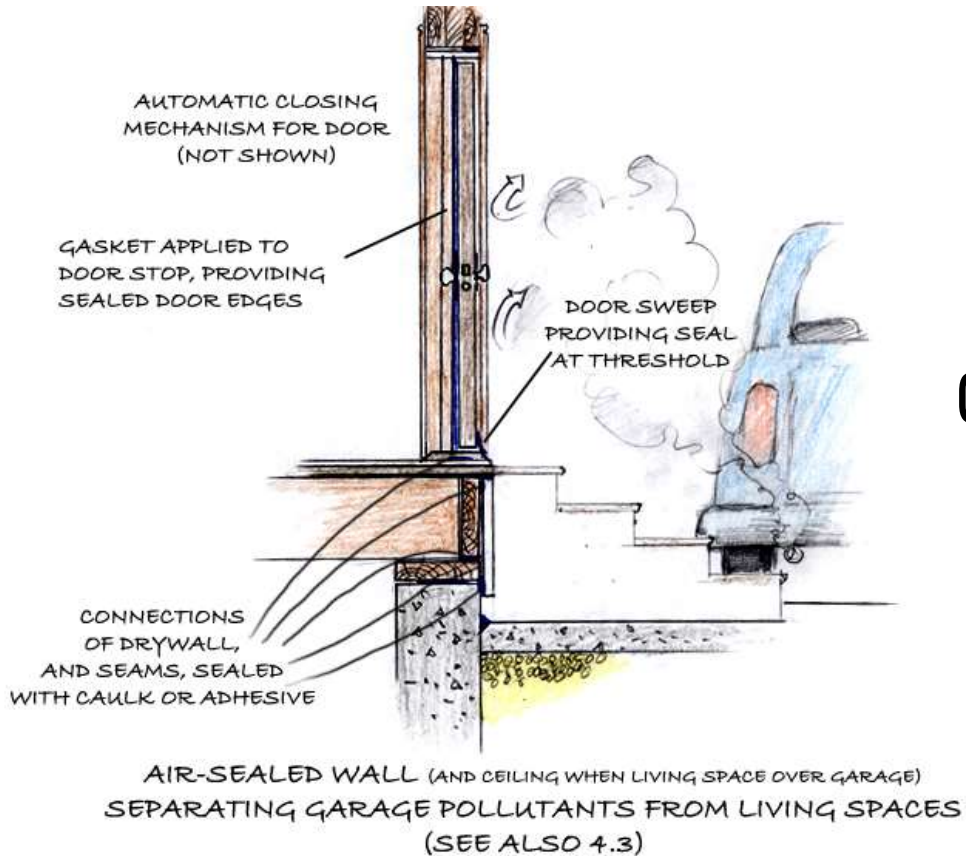
Section 5 – Garage Pollutants

Regardless of ventilation system, to reduce pollutant transfer, perform a garage to house pressure test; OR....



Section 5 – Garage Pollutants

Regardless of ventilation system, to reduce pollutant transfer, perform a garage to house pressure test; OR install 100 cfm exhaust fan.



OR



Section 6 – Building Materials

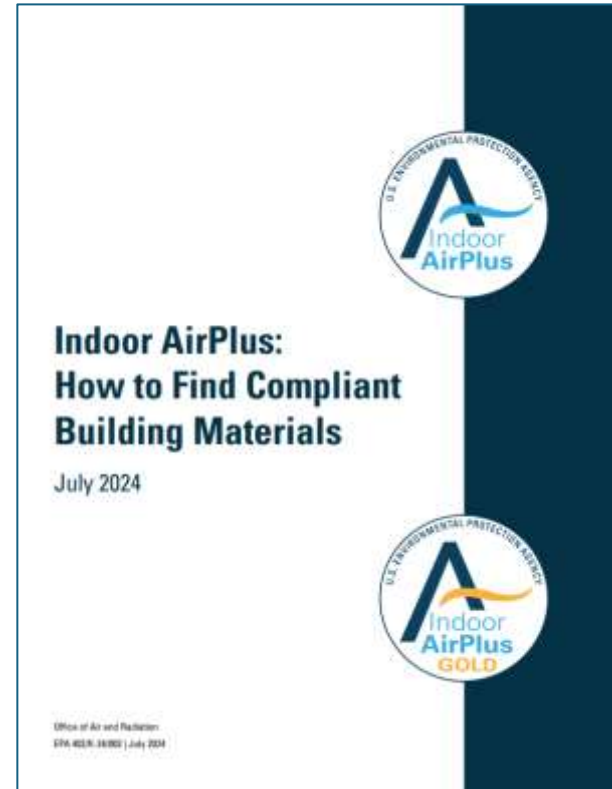
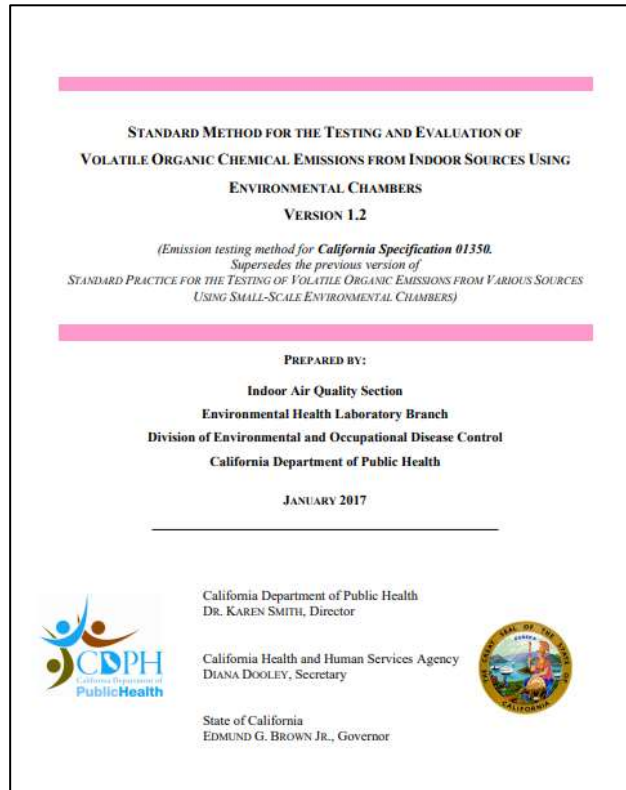
Certain products require verification that they meet VOC emission limits:

- Interior paints, finishes, and coating
- Carpets and carpet cushions
- Adhesives and sealants
- Hard surface flooring
- Interior gypsum board and joint compound



Section 6 – Building Materials

To meet the CDPH VOC limits, use EPA's updated Guide:



Section 6 – Building Materials

To meet the CDPH VOC limits, use EPA's updated Guide:








6.3 Adhesives and Sealants

Requirement:

6.3.1 Site-applied interior adhesives and sealants shall not exceed maximum VOC emission levels in accordance with and determined by [CDPH Standard Method V1.2-2017](#).

Labels Below Meet the Requirements for Item 6.3:

	Clean Air GOLD, by Intertek. Find Clean Air GOLD certified products at: Intertek Sustainability Certification Directory .
	ClearChem, by Berkeley Analytical. Find ClearChem certified products at: ClearChem directory .
	FloorScore, by Scientific Certification Systems. Find FloorScore certified products at: Certified Green Products Guide SCS Global Services .
	GREENGUARD GOLD. Find GREENGUARD GOLD certified paint and coating products at: UL search
	Indoor Advantage Gold, by Scientific Certification Systems. Find Indoor Advantage Gold certified products at: Certified Green Products Guide SCS Global Services .
	Indoor Air Comfort USA, By Eurofins. Find Indoor Air Comfort USA certified products at: www.eurofins.com/Indoor-Air-Comfort-USA .



Section 6 – Building Materials

...or look for the approved labels on products or cut sheets.



Getting to Gold



Getting to Gold (#1) – ENERGY STAR

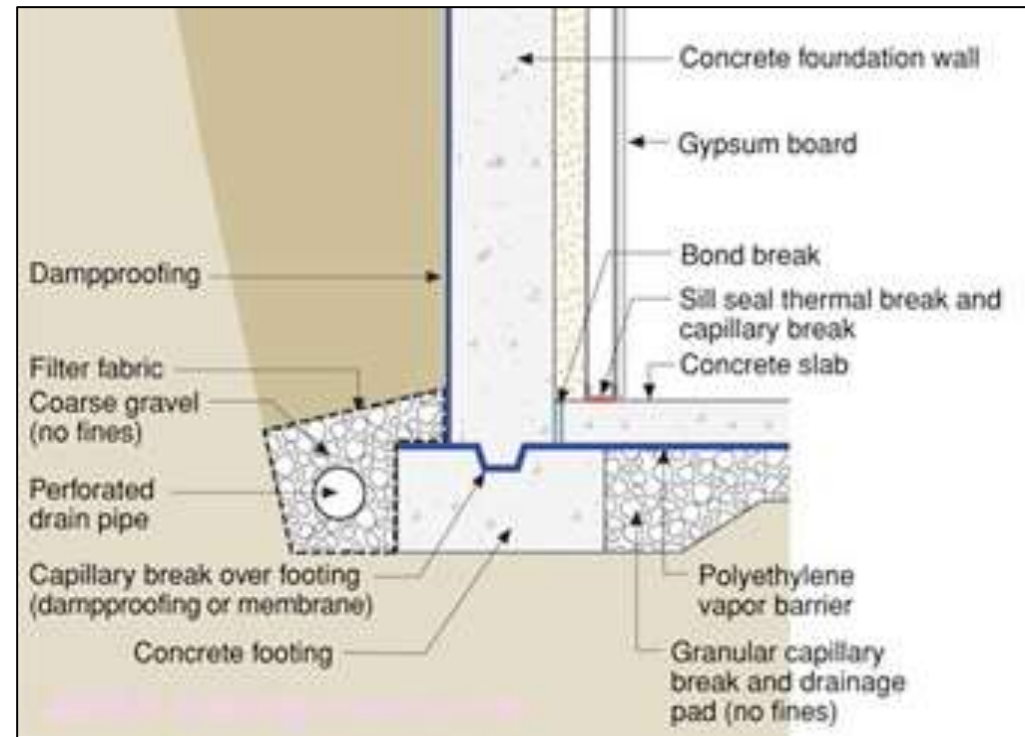


ENERGY STAR Residential certification is a co-requisite to earn Indoor AirPlus Gold certification.



Getting to Gold (#2) – Moisture Control

Capillary break installed under or on top of newly installed footers



Getting to Gold (#3 & 4) – Pest Prevention

Screens provided for all operable windows

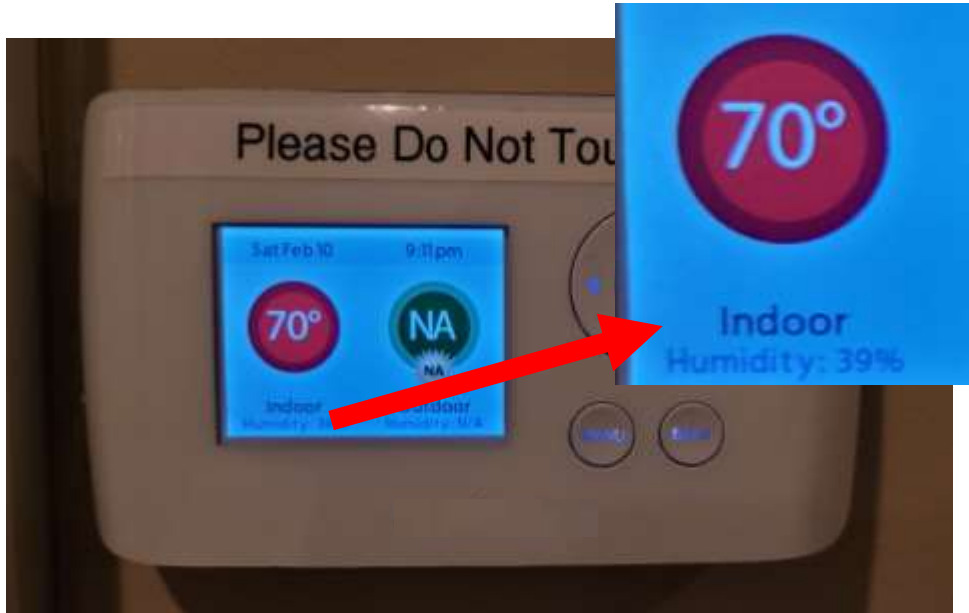


For Multifamily, sanitary floor drains installed in common trash/recycle rooms



Getting to Gold (#5 & 6) – HVAC

Humidity monitoring in each dwelling unit



Bathroom exhaust fans:

- Manual timer OR
- Occupancy/humidity sensor OR
- Runs continuously



Getting to Gold (#7 & 8) – HVAC

Air handler and ductwork **inside** the thermal & pressure boundary



Balanced ventilation: ERV, HRV or supply + exhaust

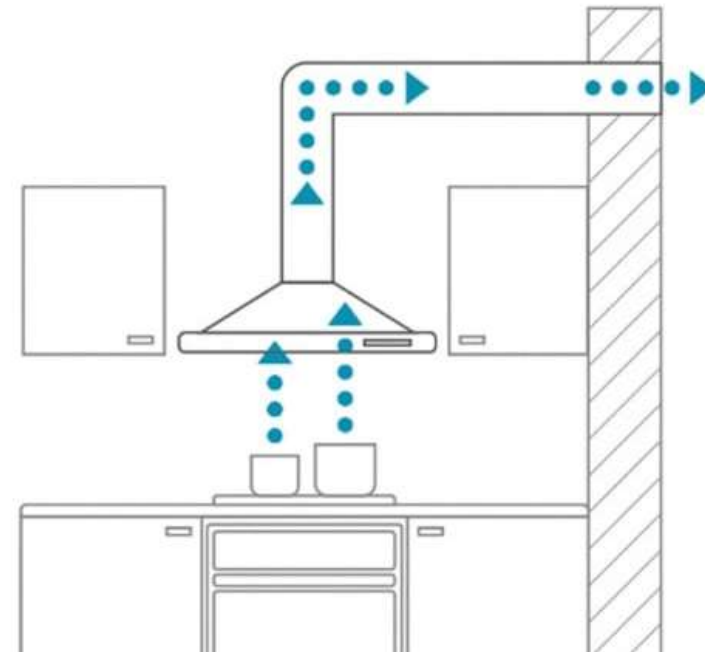


Getting to Gold (#9 & 10) – HVAC

MERV 13 filter on outdoor air & recirculating air; ducted & ductless systems



For one- & two-family homes & townhomes, **300 cfm** intermittent kitchen exhaust



Getting to Gold (#11 & 12) – Pollutant Control

Air Tightness:

Detached homes: < 3 ACH50

Attached units: < 0.25 cfm50/ft²



Furnaces, boilers, & water heaters
mechanically drafted or direct-vented



Getting to Gold (#13) – Building Materials

Insulation products meet CDPH VOC emission limits.

Exceptions:

1. Pipe insulation
2. Board insulation installed outside of other exterior sheathing

6.6 Insulation

Requirement:

6.6.1 GOLD: Insulation materials installed in wall, floor, or ceiling cavities, as well as on the interior surface of foundation walls shall not exceed maximum VOC emission levels in accordance with and determined by [CDPH Standard Method V1.2-2017](#).

NOTE: Compliance with this Item is only required to achieve Indoor AirPlus Gold certification.

Labels Below Meet the Requirements for Item 6.6:



Benchmark VOC Green Certification.

Find Benchmark VOC Green Certified products at: [VOC Green Certification](#).



GREENGUARD GOLD.

Find GREENGUARD GOLD certified paint and coating products at: [UL search](#).



Indoor Advantage Gold, by Scientific Certification Systems.

Find Indoor Advantage Gold certified products at: [Certified Green Products Guide | SCS Global Services](#).



Indoor Air Comfort USA, By Eurofins.

Find Indoor Air Comfort USA certified products at: www.eurofins.com/Indoor-Air-Comfort-USA.



Additional Requirements for Gold label

1. ENERGY STAR Certification
2. Capillary break installed under or on top of newly installed footers
3. Screens provided for all operable windows
4. For Multifamily, sanitary floor drains installed in common trash/recycle rooms
5. Humidity monitoring provided in the dwelling units
6. Dwelling-unit bathroom exhaust fans include manual timer or occupancy/humidity sensor if not run continuously
7. Air handler and ducts brought inside the thermal/pressure boundary
8. Balanced ventilation installed (ERV, HRV or supply + exhaust)
9. MERV 13 filter installed on outdoor and recirculating air (for ducted and ductless systems)
10. Kitchens in single-family and townhouses installed with 300 cfm intermittent kitchen exhaust
11. Air tightness < 3 ACH50 for single-family detached homes & < 0.25 cfm50/ft² for attached units
12. Combustion furnaces, boilers, & water heaters are mechanically drafted or direct-vented
13. Insulation products meet CDPH VOC emission limits: exceptions for pipe insulation & some board insulation



Agenda Check

- ✓ Introduction to Indoor AirPlus
- ✓ What's New in Version 2
 - a) Tiered Certification
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- ✓ Highlights of Technical Requirements
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- Case Study
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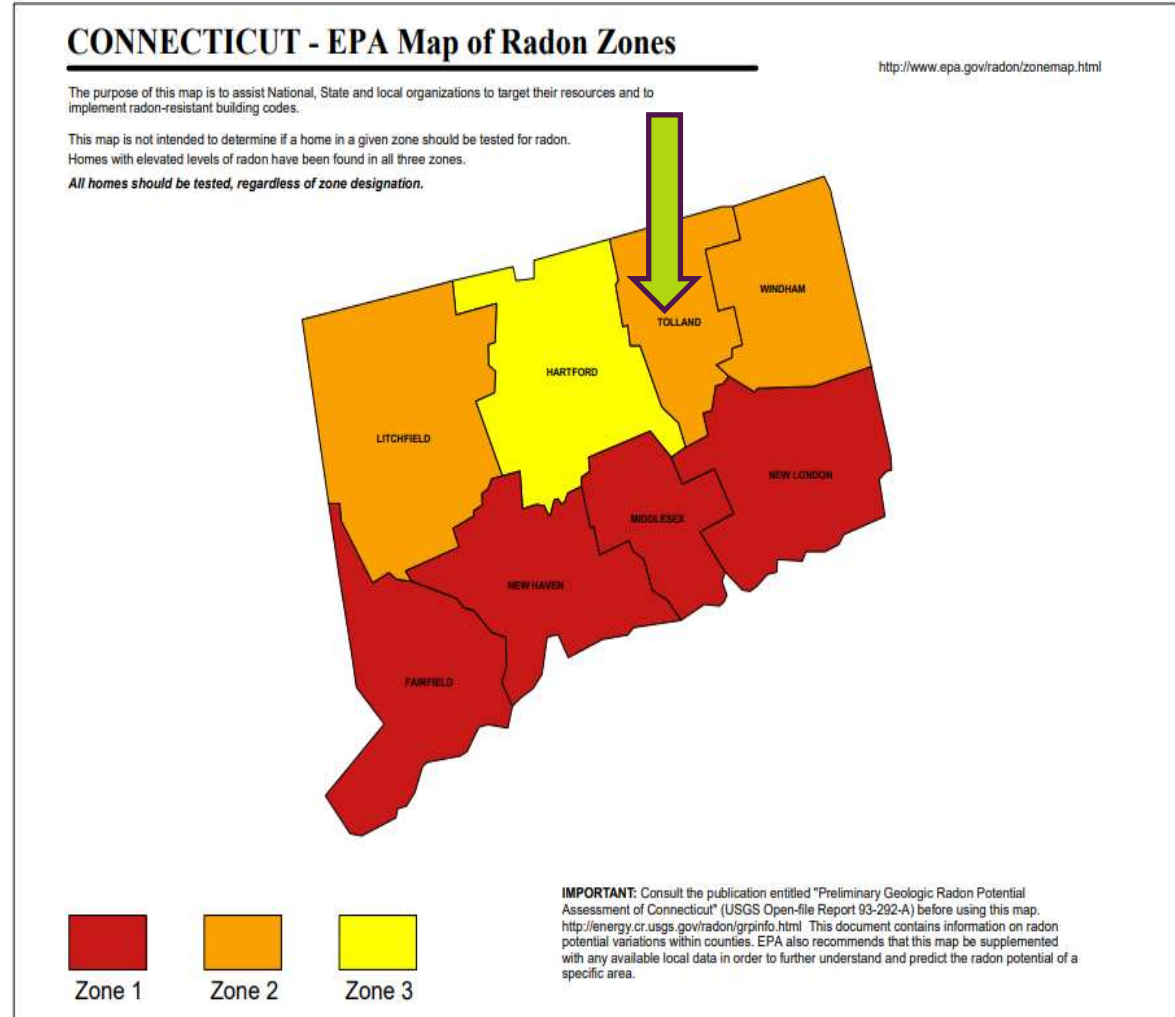
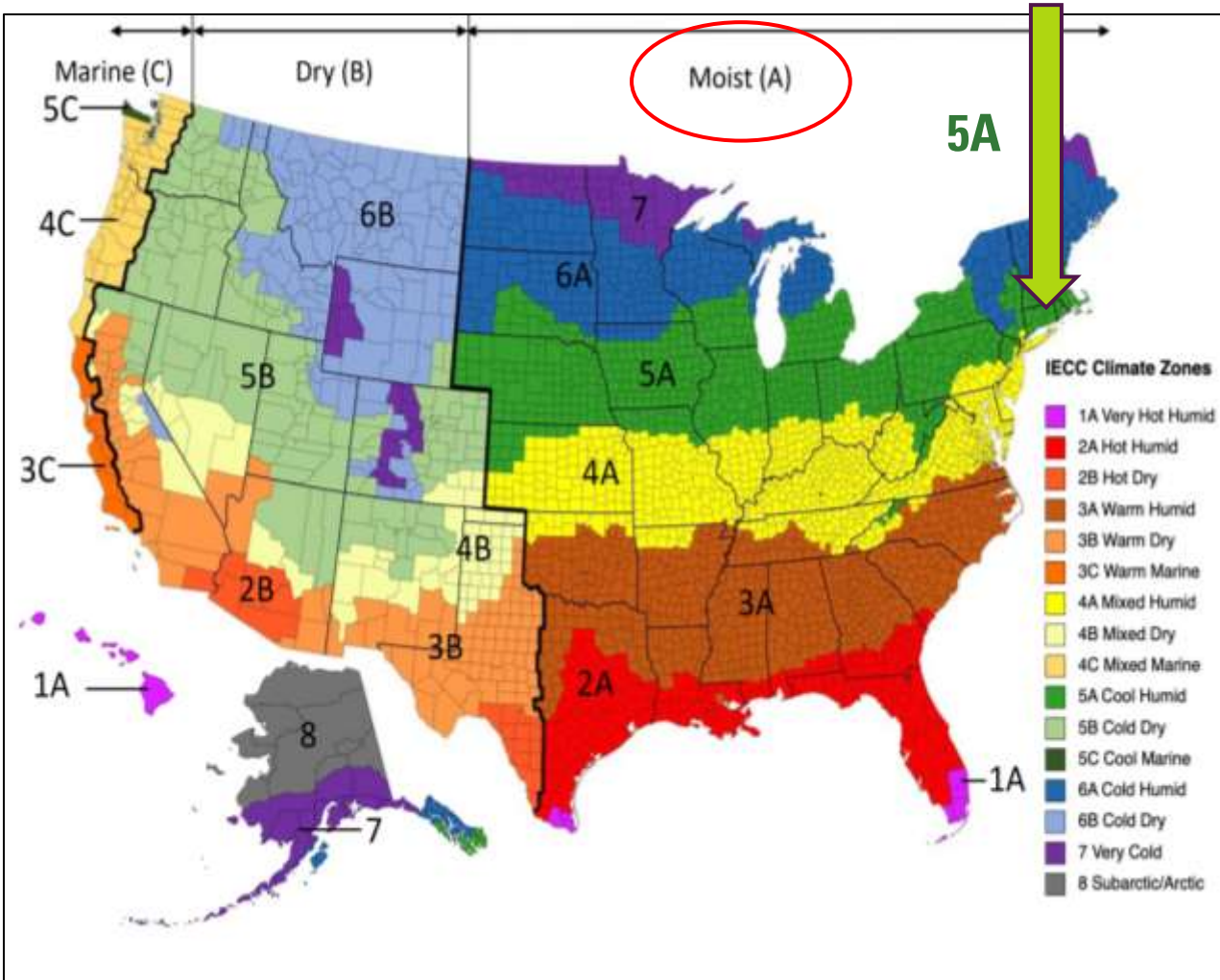
Case Study



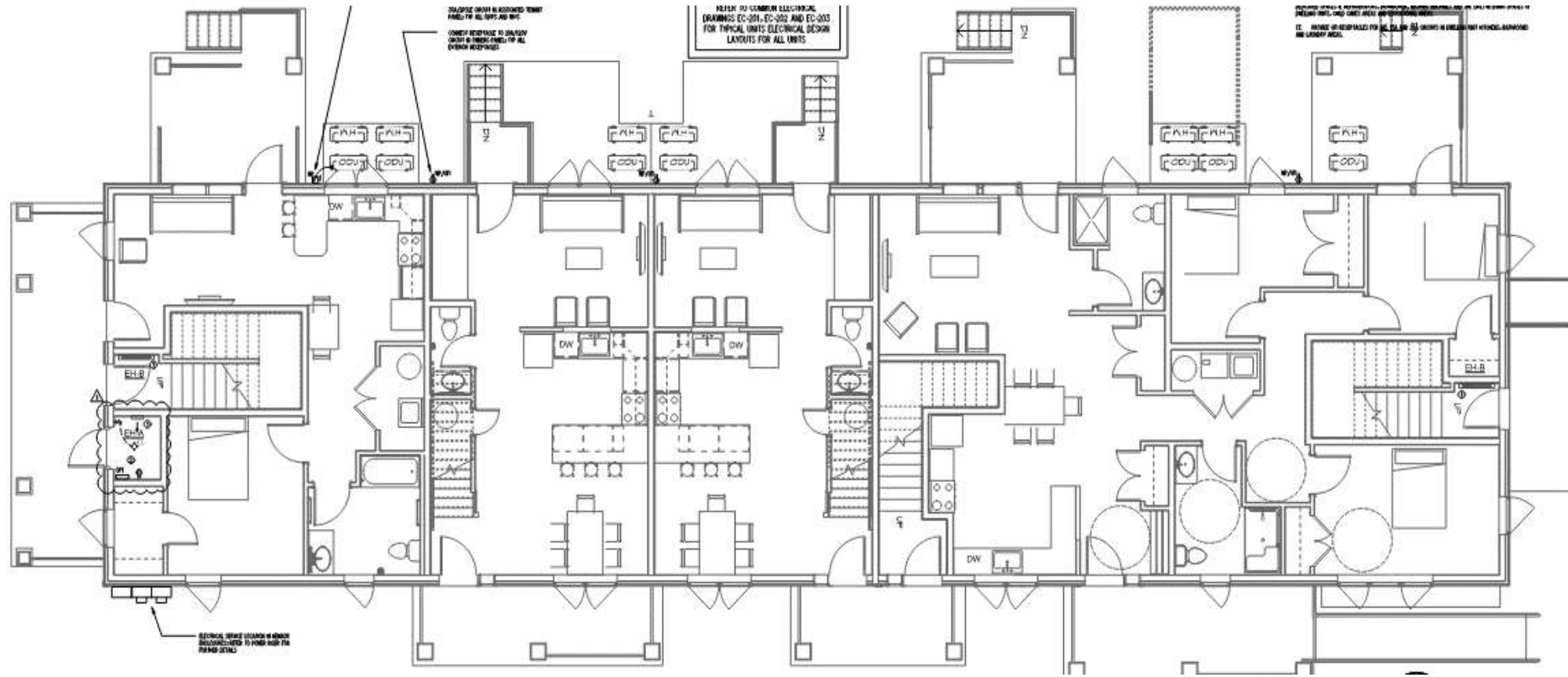
Eagleville Green



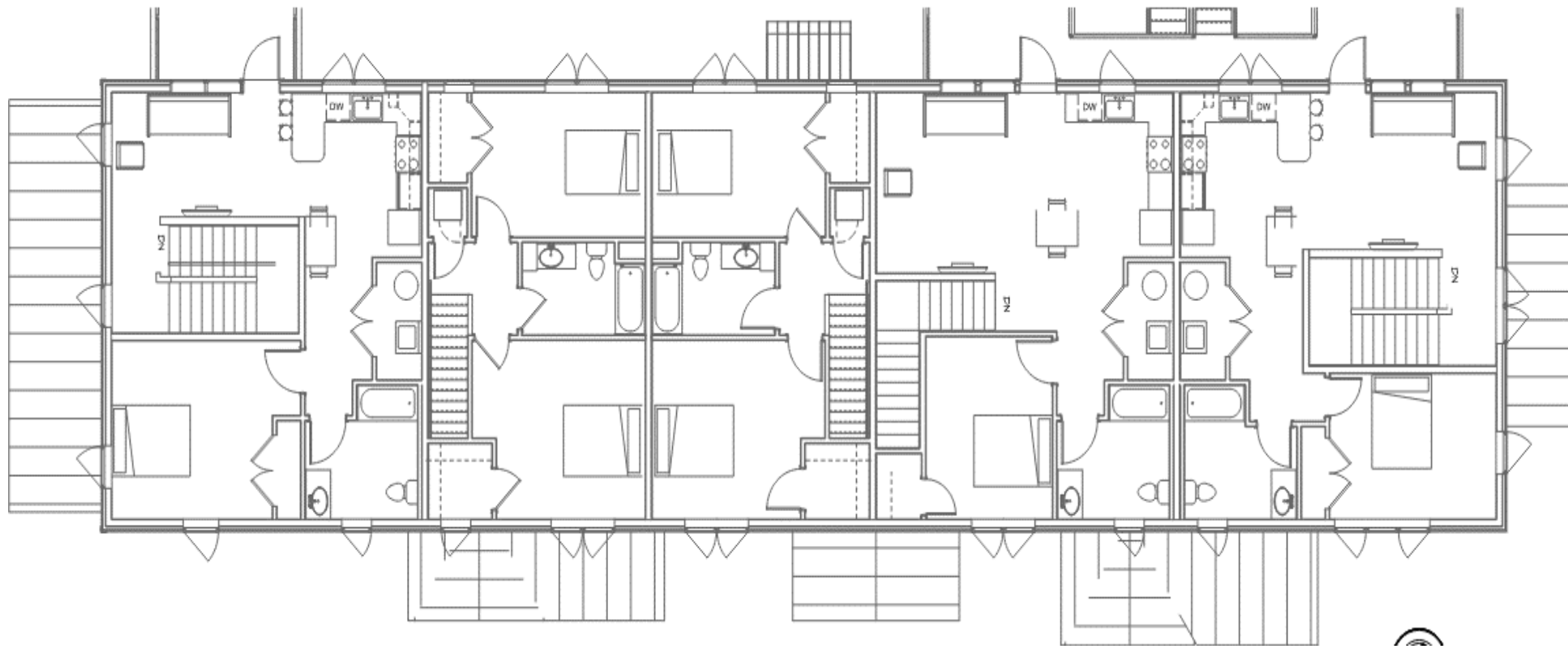
Eagleville Green



Eagleville Green



Eagleville Green



Eagleville Green Indoor AirPlus Version 2 Certified



Meeting Version 2 Requirements

Design Phase Support

- Download latest verification requirements and checklist
- Complete plan and spec review and Conduct a Design Meeting
- As the verifier ensure the v2 Indoor AirPlus training and partnership are completed
- As the builder/developer ensure the v2 Indoor AirPlus training and partnership are completed



Meeting Version 2 Requirements

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Prior to Construction

- Verify Builder Responsibility Items will be met
- 2.1 Radon strategy, installed system and/or testing
- 3.2.1, 3.2.2 IPM plan
- 4.1.1 HAC design & sizing met



Meeting Version 2 Requirements

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Construction Phase

- Review submittals & Verify on site



Version 2 - Below Grade

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Organization and attest to their compliance at least once per

meeting these requirements, the home may be decertified.



2.1.1 Radon Zone 2 – Verify system or testing



3.1.1 Verify penetrations sealed (slab)

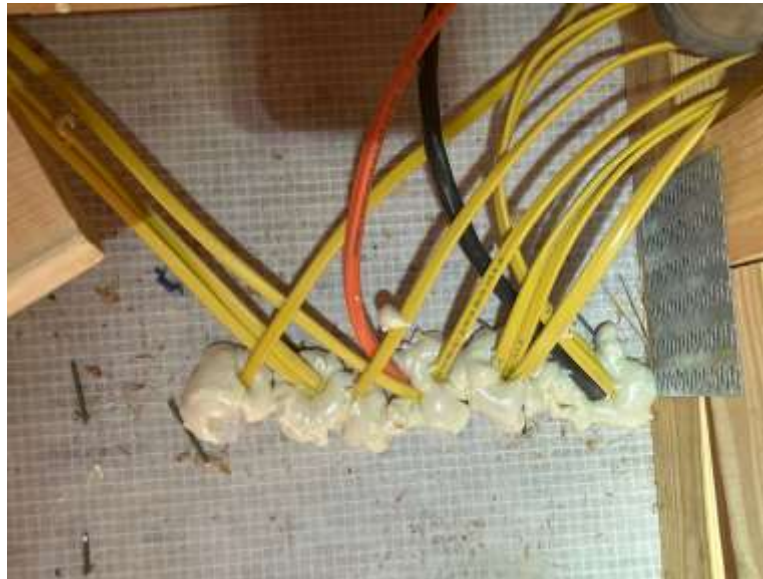


		Must Correct	Verified	N/A
1.1	1.1.1 Impermeable surfaces sloped ≥ 0.25 in. per ft. away from the building.			Builder Responsibility
	1.1.2 <u>Newly installed</u> backfill tamped and final grade sloped ≥ 0.5 in. per ft. Exception: ■ Swales/drains ■ Professional verified soils ■ Graded after settling			Builder Responsibility
1.2	1.2.1 <u>Newly installed</u> foundations, drain tile or CFDS is installed to discharge outside. Exceptions: ■ Professional verified Group I soils			Builder Responsibility
	1.2.2 Sump cover is mechanically attached.			Builder Responsibility
	1.2.3 Sump drainage discharges ≥ 5 ft. from the foundation or into approved stormwater system. Exception: ■ Discharge professionally designed or verified Group I Soils			Builder Responsibility
1.3	1.3.1 In lowest area of basement or crawlspace, install floor drain with trap seal OR moisture monitoring system with audible alarm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4	1.4.1 Under <u>newly installed</u> slabs, aggregate OR sand with geotextile matting is installed. Exceptions: ■ Professional verified Group I Soils			Builder Responsibility
	1.4.2 Under <u>newly installed</u> slabs, Class A or Class B vapor retarder is installed.			Builder Responsibility
	1.4.3 Crawlspace without slabs, Class A vapor retarder installed with penetrations/seams/edges overlapped and sealed.			Builder Responsibility
	1.4.4 Existing slabs in <u>Moist (A) Zones</u> where Items 1.4.1 and 1.4.2 cannot be confirmed, a continuous/sealed Class I vapor retarder installed on top of slab. For occupiable spaces, vapor retarder is either a durable floor surface or covered by one.			Builder Responsibility
	1.4.5 Capillary break installed between the foundation wall (or slab) and <u>newly installed</u> sill plates.			Builder Responsibility
	1.4.6 GOLD: Capillary break installed under or on top of all newly installed concrete footers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.5	1.5.1 <u>Newly installed</u> below-grade concrete/masonry walls damp-proofed; wood framed walls waterproofed.			Builder Responsibility
Water-Managed Wall Assemblies				
1.6	1.6.1 Continuous water-resistive barrier installed behind cladding and a bond-break drainage plane for non-structural masonry assemblies.			Builder Responsibility
	1.6.2 Flashing/drainage system at all horizontal interruptions and bottom of exterior walls.			Builder Responsibility
	1.6.3 Weep holes for masonry veneer and/or weep screed for stucco cladding.			Builder Responsibility
1.7	1.7.1 <u>Newly installed</u> windows and doors fully flashed.			Builder Responsibility
Water-Managed Roof Assemblies				
1.8	1.8.1 Gutter system discharges ≥ 5 ft. from foundation, into underground catchment, or sewer/rainwater management system. Exceptions: ■ Slab-on-grade ■ Dry (B) Climates ■ Professional verified soils ■ Rock bed w/liner ■ Rainwater harvesting system ■ Continuous rubber membrane ■ Waterproofed foundation walls			Builder Responsibility
1.9	1.9.1 <u>Newly installed</u> roof-to-wall intersections and roof penetrations fully flashed.			Builder Responsibility



Version 2 - Open Wall

- ✓ 1.14.1 Supply pipes (in exterior cavities) insulated min R4
- ✓ 1.16.1 No Class I VR on interior side if vapor permeable insulation
- ✓ 1.17.2 Exterior envelope inspection
- ✓ 3.1.1 Exterior penetrations sealed



Version 2 - Verification

- ✓ 4.1.3 Collect HAC documentation/start up
- ✓ 4.6 ERV inlet locations, flows measured, filters min MERV 8
- ✓ 4.8 Kitchen exhaust through ERV with MERV 3 filter
- N/A 5.3 No smoking/vaping (MF common spaces)
- ✓ 5.4 Compartmentalization testing < 0.30cfm50/sf encl



Version 2 - Verification

- ✓ 6.1 Paints/finishes/coatings meet VOC limits in CDPH
- ✓ 6.2 Carpets/carpet cushions meet VOC limits in CDPH
- ✓ 6.3 Adhesives/sealants meet VOC limits in CDPH
- ✓ 6.4 Hard surface flooring meets VOC limits in CDPH
- ✓ 6.5 Gypsum meets VOC limits in CDPH
- ✓ 7.1 Instruction manuals and O&M provided to owner/occupant

How to Find Indoor AirPlus Compliant Low Emission Products

6.3 Adhesives and Sealants

Requirement:

6.3.1 Site-applied interior adhesives and sealants shall not exceed maximum VOC emission levels in accordance with and determined by [CDPH Standard Method V1.2-2017](#).

Labels Below Meet the Requirements for Item 6.3:



Clean Air GOLD, by Intertek.

Find Clean Air GOLD certified products at:
[Intertek Sustainability Certification Directory](#).



ClearChem, by Berkeley Analytical.

Find ClearChem certified products at:
[ClearChem directory](#).



FloorScore, by Scientific Certification Systems.

Find FloorScore certified products at:
[Certified Green Products Guide | SCS Global Services](#).



GREENGUARD GOLD.

Find GREENGUARD GOLD certified paint and coating products at:
[UL search](#).



Indoor Advantage Gold, by Scientific Certification Systems.

Find Indoor Advantage Gold certified products at:
[Certified Green Products Guide | SCS Global Services](#).



Indoor Air Comfort USA, By Eurofins.

Find Indoor Air Comfort USA certified products at:
[www.eurofins.com/Indoor-Air-Comfort-USA](#).

Eagleville Green Case Study Indoor AirPlus Version 2 Gold



Meeting Version 2 **GOLD** Requirements

Design Phase & Pre-construction Support

- Download latest verification requirements and checklist
- Verify program partnerships & training completed (Verifier & Builder)
- Conduct a Design Meeting
- Review plans and specs for IAP v2 Gold requirements (Certified+13)
- Review for ENERGY STAR Requirements
- Ask how Builder Responsibility items will be met

Construction Phase

- Review submittals
- Verify on site



Version 2 **GOLD** - Below Grade



1.4.6 Capillary break under or on top of all new concrete footers



Version 2 **GOLD** - Verification

- 4.2.1 Humidity monitoring main living area
- 4.4.3 All HAC (*not V*) within thermal envelope
- 4.6.1 Balanced ventilation with MERV 13 (4.6.6)
- 4.8.1 Electric cooktop + recirc hood + charcoal filter (MF only)
- 4.12 Non ducted HAC w/ MERV 13 or portable air cleaner OR transfer grill w/ MERV 13



Version 2 **GOLD** - Verification

- ✓ 5.4.2 Compartmentalization testing < 0.25 cfm50/sf encl
- ✓ 6.6 Insulation meets VOC limits in CDPH
- N/A 4.7.4 Demand-controlled bath exhaust with timer or sensor
- N/A 4.9 & 4.11 Common space HVAC
- N/A 5.1.1 Combustion equipment mech drafted or direct-vented



Eagleville Green



Website Tour



Indoor AirPlus

Protecting Your Indoor Air from Wildfire Smoke

Learn how Indoor AirPlus homes protect
against the harmful effects of wildfire smoke.

1

2

3

4



Indoor AirPlus is a voluntary partnership and labeling program that helps new home builders improve [Indoor Air Quality](#) by requiring construction practices and product specifications that minimize exposure to airborne pollutants and contaminants. Clean air is good for everyone's health, but it can be especially important to those who have chronic respiratory conditions.



About Indoor AirPlus

Learn how you can breathe easy with the Indoor AirPlus program

[Learn About Indoor AirPlus](#)



Indoor AirPlus Partnership

Discover the benefits of participating in Indoor AirPlus and how to get started

[Become an Indoor AirPlus Partner](#)



Your Indoor AirPlus Home

Access resources for occupants and owners of Indoor AirPlus homes

[Breathe Easy in Your Indoor AirPlus Home](#)

www.epa.gov/indoorairplus/indoor-airplus-program-documents



Program Documents

Access various tools that are key to participating in the Indoor AirPlus program

[Review Key Indoor AirPlus Program Documents](#)



Marketing and Outreach

Strategies for talking about Indoor AirPlus

[Discover Tools for Client Outreach](#)



Indoor AirPlus Leader Awards

See how Indoor AirPlus can amplify stakeholders' commitment to improved indoor air quality

[See the Indoor AirPlus Leader Award Winners](#)



Indoor AirPlus Version 2 – Program Documents

Indoor AirPlus

[CONTACT US](#)

[Indoor Air Quality Home Page](#)

[Indoor AirPlus Home](#)

[About Indoor AirPlus](#)

[Indoor AirPlus Partnership](#)

[Your Indoor AirPlus Home](#)

[Program Documents](#)

[Marketing and Outreach](#)

[Leader Award Winners](#)

[Frequent Questions](#)

Indoor AirPlus Program Documents

Indoor AirPlus continues to update many of its program documents based on stakeholder feedback, revised industry standards, and evolving best practices in building science and home performance. The latest updates in Indoor AirPlus Version 2 are now available for use.

The Indoor AirPlus Version 2 framework includes substantive updates to the certification protocols and verification requirements, as well as new logos and branding resources. IAP Version 2 is available for homes and multifamily buildings permitted on or after August 1, 2024. However, the Version 1 specifications and program framework can also continue to be used for homes and multifamily buildings permitted before January 2026 (eligibility dates subject to change). The latest Indoor AirPlus program requirements and companion guidance for both Versions, including the most current Version 1 Policy Record, can be found below.

For additional background on the Indoor AirPlus Version 2 development process, the EPA's response to public comments, and a [summary of updates](#) of notable changes, please see the [Indoor AirPlus Version 2 Development webpage](#).



Indoor AirPlus Version 2 – Development & Highlights

Indoor AirPlus

[Indoor Air Quality Home Page](#)

[Indoor AirPlus Home](#)

[About Indoor AirPlus](#)

[Indoor AirPlus Partnership](#)

[Your Indoor AirPlus Home](#)

[Program Documents](#)

[Marketing and Outreach](#)

[Leader Award Winners](#)

[Frequent Questions](#)

Indoor AirPlus Version 2 Development

In February 2023, the EPA proposed updates to the Indoor AirPlus program including a two-tiered certification program and other changes to strengthen and update program specifications and requirements. Additionally, the EPA proposed changes to the training requirements for partners, and a Home Certification Organization model to improve quality assurance. The public comment period is now closed. Thank you to those who reviewed and provided input.

The final Indoor AirPlus Version 2 Certification Protocol, National Program Requirements, Verification Requirements, and supporting resources can be found on the [Program Documents webpage](#). The EPA will be making additional revisions to the proposed IAP V2 Certification System and HCO Application for Recognition, anticipated for release in late 2024.

The EPA reviewed and responded to this feedback in a comment response document and summary of updates featured below. See also the Executive Summary and archived documents below for additional background information.

- [Indoor AirPlus Version 2 Response to Public Comment](#) (PDF) (44pp, 256 KB, July 2024, EPA-402-K-24/004)
- [Indoor AirPlus Version 2 Highlights – Summary of Updates](#) (PDF) (4pp, 174 KB, July 2024, EPA-402-K-24/009)

Indoor AirPlus Version 2 Archive

Indoor AirPlus Version 2, 2023 Public Comment Documents

Public comment is now closed on the draft documents below.

[Executive Summary and Highlights](#)

[CONTACT US](#)

Indoor AirPlus Version 2 Highlights

Summary of Updates



The following is a summarized list of changes in "Version 2" of the Indoor AirPlus program requirements following Version 1. The list below is not exhaustive but intends to capture the most notable changes. Please refer to the referenced documents to review specific text changes along with EPA's responses to public comment for additional background.

General Updates to Eligibility and Certification System

- EPA has developed a tiered certification system with specifications for Indoor AirPlus CERTIFIED and Indoor AirPlus GOLD labels.
 - Residential buildings of all heights are included in the program scope.
 - Homes/buildings are eligible for the Indoor AirPlus (IAP) CERTIFIED label with no other certification pre-requisites.
 - To be eligible for Indoor AirPlus GOLD, homes/buildings must be certified using the ENERGY STAR Single Family New Homes or Multifamily New Construction (MFNC) programs.
- EPA will introduce a Home Certification Organization (HCO) model aligned with ENERGY STAR and WaterSense Labeled Homes.
- EPA will introduce required trainings for IAP partners and quality assurance guidelines for HCOs to enhance consistency in application of the program requirements.

General Updates to Specifications Format

- Specification sections and items have been re-numbered for ease of reference.
- Terminology is updated in some cases (e.g., Section 4 uses the term "HAC" rather than "HVAC" in many instances, underscoring the importance of ventilation, often as a separate system from heating/cooling).
- Requirements for newly installed features are differentiated from existing features in some instances, improving options and specificity for gut rehabs.
- For Multifamily buildings, various requirements apply to common space where noted.

Specification Updates

GOLD and **CERTIFIED** are noted below where the item only applies to that specific certification tier. Otherwise, the change is applicable to both certifications.

1. Moisture Control
[Verification Process and Documentation](#)

Page 1 of 3

DRAFT – FEBRUARY 2023

IAP Verifier at numerous points in the construction process, EPA has designated twenty-two of the thirty-four items in Section 1 as a "Builder Responsibility" (rather than "rater verified"), reducing verification costs and improving overall affordability of certified homes. To address consistency and enforcement of these items:

[epa.gov/iap](#) July 2024



Indoor AirPlus Version 2 – Development & Highlights

Indoor AirPlus

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[Indoor Air Quality Home Page](#)

[Indoor AirPlus Home](#)

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Indoor AirPlus Version 2 National Program Requirements



Eligibility Requirements

The building types listed below, including newly constructed buildings or those undergoing gut rehabilitation, are eligible to earn Indoor AirPlus certification after verification of compliance with the program specifications. For multifamily buildings, the Indoor AirPlus requirements apply to all dwelling units, sleeping units, and common spaces in the building. They do not apply to commercial or retail space. EPA recognizes that some prescriptive program requirements present unique challenges to homes and buildings undergoing gut rehabilitation. To help mitigate these challenges, EPA has developed alternative compliance options that have been incorporated directly into the program specifications. EPA acknowledges that increased flexibility and alternative assessment protocols for existing buildings are important to promote adoption of broader indoor air quality protections through professional inspection of newly installed features, along with the performance outcomes of existing assemblies and systems. EPA is committed to including alternatives that demonstrate and promote sustained indoor air quality improvements, consistent with the intent of the respective certification.

The following building types (either new construction or undergoing a gut rehabilitation) are eligible to participate in the Indoor AirPlus certification program:

- Site built or modular¹ dwellings¹ (e.g., single-family homes, duplexes)
- Townhouses¹
- Multifamily or mixed-use buildings with dwelling or sleeping units¹

Partnership, Training, and Credentialing Requirements

The following requirements must be met prior to certifying buildings:

- The Builder or Developer for the building is required to sign an Indoor AirPlus Partnership Agreement² which can be found at <https://www.epa.gov/indoorairplus/indoor-airplus-partnership-agreement> and <https://www.epa.gov/indoorairplus/indoor-airplus-partnership-agreement>. At least one representative of the partnering organization is required to complete the online "Indoor AirPlus Version 2 Training" and communicate or otherwise distribute the training content discriminatorily to the appropriate staff within the organization responsible for implementation of the program requirements (e.g., construction supervisors, purchasing managers, etc.). Deadlines for training completion and documentation will be forthcoming pending EPA release, estimated in early 2025.
- Verification Companies are required to sign an Indoor AirPlus Partnership Agreement, which can be found at <https://www.epa.gov/indoorairplus/indoor-airplus-partnership-agreement> and operate under a Home Certification Organization (HCO) requirements, including the oversight of certification and quality assurance, will be outlined in the forthcoming revisions to the [Indoor AirPlus Certification Agency](https://www.epa.gov/indoorairplus/indoor-airplus-certification-agency) (estimated in late 2024).
- Verifiers³ are required to complete EPA-recognized "Indoor AirPlus Version 2 Training", pending EPA release, estimated in early 2025 and be credentialed by a Home Certification Organization (HCO) prior to completing inspections (pending EPA approval of an MP/HCO application).

Indoor AirPlus Certification Process

1. Per the IAPV Implementation Timeline in Exhibit 1, IAPV partner organizations can continue using the Indoor AirPlus Version 1 certification process with either the Indoor AirPlus Version 1 (Rev. 4) Construction Specifications or the Indoor AirPlus Version 2 Verification Requirements. All new homes and apartments with building permits on or after January 1, 2025 will need to be certified under an EPA-recognized MP/HCO.
2. The Indoor AirPlus Version 2 certification process offers two tiers to earn Indoor AirPlus certification:
 - a. **Certified** The dwelling units (and multifamily common spaces⁴, where applicable) are designed and constructed to meet or exceed all the applicable items in the Indoor AirPlus Verification Requirements⁵.
 - b. **Gold** The dwelling units (and multifamily common spaces⁴, where applicable) are designed and constructed to meet or exceed all the applicable items in the Indoor AirPlus Verification Requirements⁵, including the applicable requirements marked "Gold", in addition to achieving ENERGY STAR certification (either Single Family New Homes or Multifamily New Construction).
3. For multifamily buildings, Indoor AirPlus certification can only be achieved where all requirements are met in all dwelling units, sleeping units, and common spaces in the building.
4. During construction and upon building completion, an Indoor AirPlus Verifier³ certifies that all requirements have been met, using the referenced inspection and testing procedures including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the schedule defined by the HCO. For modular¹ buildings, a Verifier must confirm any requirement in the plan not able to be verified on-site because a builder will be consulted prior to shipment.

July 2024



Indoor AirPlus Version 2 – Verification Requirements

Indoor AirPlus Version 2

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Indoor AirPlus Version 2 Verification Checklist
DMS Control Number 2000-NEW
Approval Expires: Pending Approval

(Refer to full Indoor AirPlus Verification Requirements for details)

Location Information:			
Name/Building Address: _____		City: _____	State: _____ Zip Code: _____
Property/Development Name: _____		Number of Units (Multifamily Only): _____	
Multifamily Units to Which This Checklist Applies: _____			
Indoor AirPlus Tier (select one): <input type="checkbox"/> Certified <input type="checkbox"/> Gold		<input type="checkbox"/> New Construction <input type="checkbox"/> Gut Rehabilitation <input type="checkbox"/> Certifying as ENERGY STAR <input type="checkbox"/> Sampling Protocol Used (Multifamily Only)	
Climate Zone (D-E): _____ Moisture Zone (A-C): _____		EPA Radon Zone (1-3): _____	
Builder Responsibilities: <ul style="list-style-type: none"> • It is the exclusive responsibility of builders to ensure that each certified home is constructed to meet the Indoor AirPlus requirements identified as "Builder Responsibility". • 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 sub-contractors, require a site supervisor to inspect each home for these requirements, and/or sub-contract the verification of these requirements to a Verifier). • Builders are required to review these items with a representative of the Verification Organization and attest to their compliance at least once per development/community using the IAP Builder Responsibilities form. • In the event that the EPA determines that a certified home was constructed without meeting these requirements, the home may be decertified. 			
<input type="checkbox"/> Verifier has received signed Builder Responsibilities document from Builder			
Section 1 – Moisture Control			Met
			Correct
			Verified
			N/A
Water-Managed Site and Foundation			
1.1	1.1.1 Impermeable surfaces sloped ≥ 0.25 in. per ft. away from the building.		Builder Responsibility
	1.1.2 Newly installed backfill tamped and final grade sloped ≥ 0.5 in. per ft. Exception: <input type="checkbox"/> Swales/drains <input type="checkbox"/> Professional verified soils <input type="checkbox"/> Graded after setting		Builder Responsibility
1.2	1.2.1 Newly installed foundations, drain tile or CFDS is installed to discharge outside. Exception: <input type="checkbox"/> Professional verified Group I soils		Builder Responsibility
	1.2.2 Sump cover is mechanically attached.		Builder Responsibility
	1.2.3 Sump discharge discharges ≥ 5 ft. from the foundation or into approved stormwater system. Exception: <input type="checkbox"/> Discharge professionally designed or verified Group I Soils		Builder Responsibility
1.3	1.3.1 In lowest area of basement or crawlspace, install floor drain with top seal OR moisture monitoring system with audible alarm.	<input type="checkbox"/>	<input type="checkbox"/>
1.4	1.4.1 Under newly installed slabs, aggregate OR sand with geotextile matting is installed. Exception: <input type="checkbox"/> Professional verified Group I Soils		Builder Responsibility
	1.4.2 Under newly installed slabs, Class A or Class B vapor retarder is installed.		Builder Responsibility
	1.4.3 Cracks/seals without slabs, Class A vapor retarder installed with penetrations/seams/edges overlapped and sealed.		Builder Responsibility
	1.4.4 Existing slabs in Mixed Use Zones where items 1.4.1 and 1.4.2 cannot be confirmed, a continuous/sealed Class I vapor retarder installed on top of slab. For occupiable spaces, vapor retarder is either a durable floor surface or covered by one.		Builder Responsibility
	1.4.5 Capillary break installed between the foundation wall for slabs and newly installed all slabs.		Builder Responsibility
	1.4.6 GIB-D: Capillary break installed under or on top of all newly installed concrete footers.	<input type="checkbox"/>	<input type="checkbox"/>
1.5	1.5.1 Newly installed below-grade concrete/masonry walls stamp proofed, wood framed walls waterproofed.		Builder Responsibility
Water-Managed Wall Assemblies			
1.6	1.6.1 Continuous water-resistant barrier installed behind cladding and a bond-break drainage plane for non-structural masonry assemblies.		Builder Responsibility
	1.6.2 Flashing/change system at all horizontal interruptions and bottom of exterior walls.		Builder Responsibility
	1.6.3 Weep holes for masonry veneer and/or weep screed for stucco cladding.		Builder Responsibility
1.7	1.7.1 Newly installed windows and doors fully flashed.		Builder Responsibility
Water-Managed Roof Assemblies			
1.8	1.8.1 Gutter system discharges ≥ 5 ft. from foundation, into underground catchment, or sewer/stormwater management system. Exceptions: <input type="checkbox"/> Sub-in-grade <input type="checkbox"/> Dry (B) Climate <input type="checkbox"/> Professional verified soils		Builder Responsibility
	<input type="checkbox"/> Rock bed underliner <input type="checkbox"/> Rainwater harvesting system		Builder Responsibility
	<input type="checkbox"/> Continuous rubber membrane <input type="checkbox"/> Waterproofed foundation walls		Builder Responsibility
1.9	1.9.1 Newly installed roof-to-wall intersections and roof penetrations fully flashed.		Builder Responsibility
	1.9.2 Newly installed roofing includes kickout flashing installed at low end of roof-to-wall intersections and roof deck flashing integrated with drainage slope.		Builder Responsibility

Indoor AirPlus Verification Checklist, Version 2 (July 2024) 1



Indoor AirPlus Version 2 – Builder Responsibilities

Builder Responsibilities:

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- 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 sub-contractors, require a site supervisor to inspect each home for these requirements, and/or sub-contract the verification of these requirements to a Verifier).
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- In the event that the EPA determines that a certified home was constructed without meeting these requirements, the home may be decertified.

Verifier has received signed Builder Responsibilities document from Builder

Section 1 – Moisture Control

		Must Correct	Verified	N/A
Water-Managed Site and Foundation				
1.1	1.1.1	Impermeable surfaces sloped \geq 0.25 in. per ft. away from the building.		
	1.1.2	Newly installed backfill tamped and final grade sloped \geq 0.5 in. per ft. Exception: ■ Swales/drains ■ Professional verified soils ■ Graded after settling		
1.2	1.2.1	Newly installed foundations, drain tile or CFDS is installed to discharge outside. Exceptions: ■ Professional verified Group I soils		
	1.2.2	Sump cover is mechanically attached.		
	1.2.3	Sump drainage discharges \geq 5 ft. from the foundation or into approved stormwater system. Exception: ■ Discharge professionally designed or verified Group I Soils		
1.3	1.3.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		In lowest area of basement or crawlspace, install floor drain with trap seal OR moisture monitoring system with audible alarm.		



Indoor AirPlus Version 2 – Builder Responsibilities

Indoor AirPlus Version 2

[Indoor AirPlus Verification Requirements, Version 2 \(PDF\)](#)

(38pp, 1.6 MB, July 2024, EPA-402-K-24/003)

The Indoor AirPlus Verification Requirements (Version 2) includes the design, construction, and verification requirements for both Indoor AirPlus Certified and Indoor AirPlus Gold Certified homes.

[Indoor AirPlus Version 2 Verification Checklist \(PDF\)](#)

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(3pp, 220 KB, July 2024, EPA-402-K-24/003)

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[Indoor AirPlus: How to Find Compliant Building Materials \(PDF\)](#)

(8pp, 1 MB, July 2024, EPA-402-K-24/002)

This resource was developed to help builders, designers, and Verifiers find products that are compliant with the requirements for low-emission materials under Indoor AirPlus Version 2.

[Indoor AirPlus National Program Requirements, Version 2 \(PDF\)](#)

(3pp, 98 KB, July 2024, EPA-402-K-24/008)

The Indoor AirPlus National Program Requirements (Version 2) describes the eligibility requirements; partnership, training and credentialing requirements; and the certification process for homes and apartments. It also includes the implementation timeline to determine the Version and, if applicable, the Revision that is required to be used for each home or apartment.

[Indoor AirPlus Certification Protocol \(PDF\)](#)

(2pp, 168 KB, July 2024, EPA-402-K-24/006)

The Indoor AirPlus Certification Protocol for Homes and Apartments lists the key documents that comprise the Indoor AirPlus Version 2 certification scheme.



Indoor AirPlus Version 2 Builder Responsibilities

Indoor AirPlus Version 2 Builder Responsibilities

Section	Sub-section	Description
Section 1 - Moisture Control	1.1	1.1.1 Moisture-resistant exterior finish
	1.1	1.1.2 Moisture-resistant exterior finish
	1.2	1.2.1 Underlayment
	1.2	1.2.2 Underlayment
	1.2	1.2.3 Underlayment
	1.2	1.2.4 Underlayment
Section 2 - Radon	2.1	2.1.1 Radon-resistant new construction
	2.1	2.1.2 Radon-resistant new construction
	2.1	2.1.3 Radon-resistant new construction
	2.1	2.1.4 Radon-resistant new construction
	2.1	2.1.5 Radon-resistant new construction
	2.1	2.1.6 Radon-resistant new construction
Section 3 - Mold/Moisture Management	3.1	3.1.1 Mold/Moisture Management
	3.1	3.1.2 Mold/Moisture Management
	3.1	3.1.3 Mold/Moisture Management
	3.1	3.1.4 Mold/Moisture Management
	3.1	3.1.5 Mold/Moisture Management
	3.1	3.1.6 Mold/Moisture Management

Builder Organization

Builder Representative

Builder Signature _____ **Date** _____

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July 2024
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Indoor AirPlus Version 2 Builder Responsibilities

EPA Form No. 3300-0001

Office of Air and Radiation
EPA 402-B-24-003

Indoor AirPlus Version 2 Builder Responsibilities

Indoor AirPlus Version 2 – How to Find Compliant Materials

Indoor AirPlus Version 2

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6.3 Adhesives and Sealants

Requirement
6.3.1 Site-applied interior adhesives and sealants shall not exceed maximum VOC emission levels in accordance with and determined by [CENB Standard Method VI.2.3.117](#).

Labels Below Meet the Requirements for Item 6.3:

-  **Clean Air GOLD, by Intertek.**
Find Clean Air GOLD certified products at: [Intertek Sustainability Certification Directory](#)
-  **ClearChem, by Berkeley Analytical.**
Find ClearChem certified products at: [ClearChem directory](#)
-  **FloorScore, by Scientific Certification Systems.**
Find FloorScore certified products at: [Certified Green Products Guide | SCSC Global Services](#)
-  **GREENGUARD GOLD.**
Find GREENGUARD GOLD certified paint and coating products at: [UL search](#)
-  **Indoor Advantage Gold, by Scientific Certification Systems.**
Find Indoor Advantage Gold certified products at: [Certified Green Products Guide | SCSC Global Services](#)
-  **Indoor Air Comfort USA, By Eurofins.**
Find Indoor Air Comfort USA certified products at: [www.eurofins.com/indoor-air-comfort-usa](#)

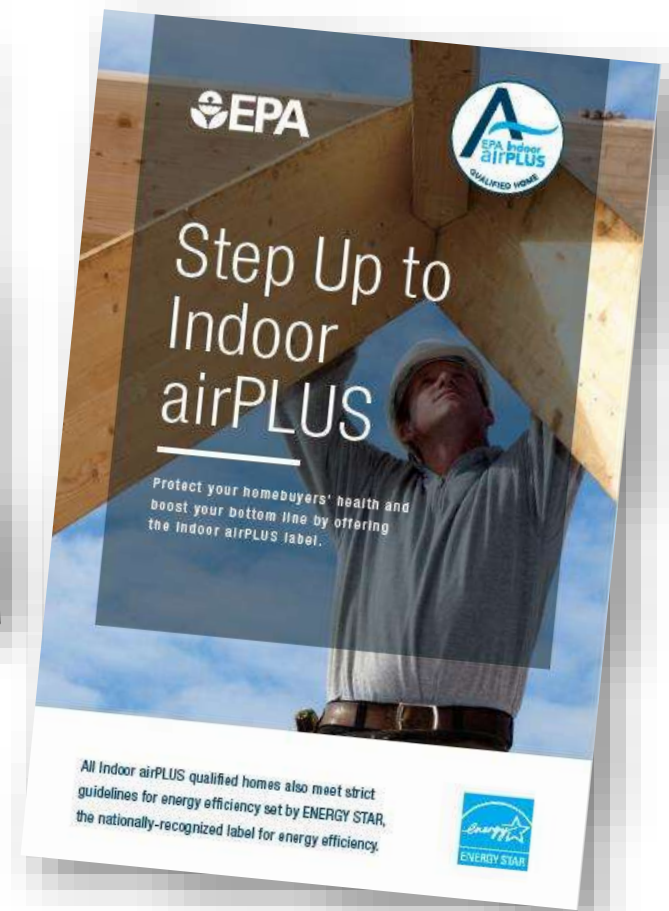
How to Find Indoor AirPlus Compliant Building Products



Awards & Marketing Resources

Resources and Tools

- Partner logos
- Co-brandable brochures
- 100% Commitment



Sales and Marketing Resources: <https://www.epa.gov/indoorairplus/indoor-airplus-sales-and-marketing-resources>
Partner logos and co-brandable resources in your [My ENERGY STAR Account \(MESA\)](#).



2024 Indoor AirPlus Leader Award Winners



[Join us for the 2025 Leader Award ceremony at the EEBA Summit in September! Applications available in April.](#)



What We've Covered

- ✓ Introduction to Indoor AirPlus
- ✓ What's New in Version 2
 - a) Tiered Certification
 - b) IAP Partner Training
 - c) QA/QC and HCO oversight
- ✓ Highlights of Technical Requirements
- ✓ Getting to Gold
- ✓ Case Study
- ✓ Website tour
- ✓ Awards & Marketing resources





Indoor AirPlus

A new opportunity for leading builders to create better environments inside and out.

Learn more at:

www.epa.gov/indoorairplus

OR contact the Indoor AirPlus Team at
Indoor_AirPlus@epa.gov

Questions?

Karla Butterfield, Steven Winter Associates
Gayathri Vijayakumar, Steven Winter Associates
Nick Hurst, US Environmental Protection Agency

Contact us: Indoor_AirPlus@epa.gov

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