

RADON MITIGATION SYSTEM INSPECTION CHECK LIST

Site Address: _____ City: _____ Zip Code: _____ State: IN

Mitigation Company: _____ Mitigator Contact Name: _____ Mitigator Phone Number _____

Inspector: _____ Inspection Date: _____

Vent Pipe Installation Requirements

Yes	No	N/A	AARST/ANSI Standard SGM-SF-2017	Requirement	Required Corrective Action
			7.2.1	Pipe joints have been permanently sealed and have been made airtight	
			7.2.7.1	Vent pipe has been adequately secured to structure, not to existing pipe, ducts, or mechanical equipment	
			7.2.7.2	Horizontal piping has been supported every 6 feet, and vertical piping (not penetrating partitions) has been supported every 10 feet	
			7.2.3	Positively pressured duct piping is not installed in (and does not pass through or pass under) conditioned space of the building	
			7.2.2	Vent pipes have been installed in a continuous downward slope of not less than 1/8 inch per foot to ensure that condensation and rainwater drain into the ground beneath the slab or soil-gas retarder membrane	
			7.2.9.1 & 7.2.9.2	Pipes do not block access to area needing maintenance or interfere with light, egress or ventilation	
			7.4.1; 7.4.2; 7.4.3; 7.4.6; 7.4.8;	Discharge point has been placed so that: <ol style="list-style-type: none"> 1. It's at least 1 ft above the roof 2. It's ≥ 10 ft above the ground nearest the point of discharge 3. It's ≥ 10 ft away from any opening to the house that is less than 2 ft below the exhaust point 4. It's ≥ 10 ft away from any opening in an adjacent building 5. Not directed in a straight-line trajectory toward a location that people would likely congregate 	
			7.4.9	Discharged air is configured to discharged upward without obstruction.	
			7.4.10	Vent pipe does not exhaust air flow to directly strike building materials such as exterior walls or roof eaves.	

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Vent Fan Installation Requirements

Yes	No	N/A	AARST/ANSI Standard SGM-SF-2017	Requirement	Required Corrective Action
			7.5.1	Vent fan used in mitigation system has been sealed to reduce leakage of soil gas from the fan housing	
			7.5.2	Vent fan has been sized to provide appropriate pressure difference and air flow (guidelines for sizing cited in 6.2).	
			7.5.3.	For active soil depressurization and block wall depressurization systems: fan has not been installed below ground, nor in the conditioned space of a building, nor in a basement, crawlspace or other interior location beneath the conditioned spaces (acceptable fan placement locations include attics not suitable for occupancy, garages not beneath conditioned spaces, or the exterior of the building)	
			7.5.4	Fan has been installed in a configuration at that avoids buildup of condensation	
			7.5.3.3	If fan is mounted outdoors: Fan has been rated for outdoor use or is enclosed in water-tight housing. If fan is subject to extreme climate, it has been protected from the elements.	
			7.2.8	Fan has been mounted to minimize vibrations to structural framing	
			7.5.5	Vent fan has been installed using removable couplings or flexible connections to allow for maintenance & replacement	

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Sealing Requirements

Yes	No	N/A	AARST/ANSI Standard SGM-SF-2017	Requirement	Required Corrective Action
			8.5.1	In sub-slab depressurization systems: If sump permits soil gas entry or conditioned air, sump is covered and sealed while still maintaining existing drainage with water or mechanical trap	
			8.2.1	Openings around vent pipe and utility penetrations in slab, walls and soil gas retarder has been permanently air-tight sealed	
			7.1.5	If block wall depressurization: Wall top and other openings and cracks have been sealed. Openings that are inaccessible or can't be sealed must be documented and disclosed to client.	
			8.2.1 & 8.2.2	Openings, perimeter channel drains or floor-wall joints are sealed with urethane caulk or equivalent material. When the opening or channel is greater than ½ inch a foam backer rod has been inserted in the channel before application of the sealant	
			8.6.2	Any seams in soil gas retarder membranes used have seams overlapping 12+ inches.	
			8.6.5	For crawlspace depressurization systems: openings to conditioned space have been closed and sealed or otherwise documented and disclosed to client.	
			8.3.1	Accessible gaps to soil perimeter channel drains have been sealed to the extent practical without compromising water control capability.	

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Electrical Requirements

Yes	No	N/A	AARST/ANSI Standard SGM-SF-2017	Requirement	Required Corrective Action
			9.3	Conforms to National Electrical Code and any additional local regulations	
			9.3.4	No wiring located in, or chased through, heating and cooling ductwork	
			9.3.1	Plugged cord supplying power to vent fan is NOT more than 6 ft in length	
			9.2.3.4	Components requiring electricity for indication of fan failure are on non-switched circuits and designed to reset automatically when power is restored after power supply interruptions	
			9.3.3	Fans installed on the exterior of buildings are hardwired into an electrical circuit. (plugged fans are not allowed outdoors).	
			9.3.3	All outdoor wiring for exterior fans is protected in conduit.	

Drain Installation Requirements

Yes	No	N/A	AARST/ANSI Standard SGM-SF-2017	Requirement	Required Corrective Action
			8.8.2	If condensate drain from A/C unit terminates beneath the floor slab, trap is installed that provides a minimum 6-inch standing water seal depth, drain is rerouted into a trapped floor drain, or connects the drain to a condensate pump.	
			8.3.1	Channel drains have been sealed to retain drainage feature	
			8.8.2	If sump is drain for basement and it is covered: cover has been modified to retain drainage capability	

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Materials Requirements

Yes	No	N/A	AARST/ANSI Standard SGM-SF-2017	Requirement	Required Corrective Action
			9.3	Only UL Listed electrical components are used.	
			7.2.5	Minimum schedule 40 PVC pipe is used	
			7.2.6	Pipe fitting material is the same as pipe material	
			7.3.1, & 7.3.3	Duct piping from the exhaust point to the soil gas collection plenums has a cross sectional area of at least 3 inches, unless PFE analysis indicates air flow yield needs of less than 40 CFM, then 2 inch inside pipe diameter is allowed	
			8.6.1	Soil gas retarders meet ASTM E1745 class A, B or C specifications for permeance, tensile strength and puncture resistance.	
			7.2.5	Adhesives used to join plastic pipes and fittings align with recommendations by manufacturers of pipe materials.	
			8.2.1	Caulks and sealants appropriate for their application are used.	
			8.2.3	When sealing holes for plumbing rough ins or openings in slabs and foundation walls that are below ground: only non-shrink mortars, grouts, expanding foams and other suitable materials are used.	
			8.5.1	Sump pit covers are made of durable plastic and designed to permit air-tight sealing. Cover is sealed using a non-permanent caulk	
			8.5.1	Sump pump cover penetrations (to accommodate electrical wiring, water ejection pipes, etc) have been sealed with caulk or grommets.	
			8.6.1	Plastic installed in crawlspaces as soil-gas retarders meets ASTM E1745 class A, B, or C specifications for permeance, tensile strength and puncture resistance.	
			8.6.6	Any wood used for attaching soil-gas retarder membranes to crawlspaces walls or piers has been made resistant to decay and insects or otherwise protected	

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Monitors and Labeling Requirements

Yes	No	N/A	AARST/ANSI Standard SGM-SF-2017	Requirement	Required Corrective Action
			9.2.1	System includes a fan monitor mechanism to directly indicate if the fan, blowers, and integral mechanical components are operating within the established range.	
			9.2.3	Electrical Radon Mitigation System Monitors are installed on non-switched circuit. If battery operated, they include a low-power indicator.	
			9.4.3	If monitor has a pressure indicator, the initial pressure when the system was activated is marked.	
			9.4.2.1	A main description label is placed on the system, electrical panel or other prominent location that includes the following information (and lettering height at least ¼ inch): <ol style="list-style-type: none"> 1. "Radon Reduction System" 2. Installers Name, Phone #, & applicable certification identification 3. Installation Date 4. Advisory stating the system should be evaluated for mechanical performance quarterly 5. An advisory saying the building should be tested for radon every 2 years 	
			9.4.4	All visible pipe on each floor level is labeled "Radon Reduction System"	
			9.4.5	Circuit breaker for radon fan and system indicator is labeled "Radon System"	

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Post-Mitigation Testing Requirement					
Yes	No	N/A	AARST/ANSI Standard SGM-SF-2017	Requirement	Required Corrective Action
			10.2.1 & 10.2.2	A test of the mitigation system effectiveness was conducted following all mitigation work using a Qualified Measurement Professional who has is certified by NRPP/NRSB and ISDH.	

Inspector Notes and Comments

Signature of ISDH Representative Conducting Inspection: _____ Date: _____