

# ASHI RADON MITIGATION SYSTEM INSPECTION CHECKLIST

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## III. INSPECTION ELEMENTS

### ✓ (1) Vent pipe size/type and labeling

- Vent pipe/fittings appear to be PVC, ABS (or equivalent; down spout OK outside).  Yes  No  N/A
- Vent pipe diameter is approximately 3-4".  Yes  No  N/A
- Vent pipe labeled as "radon reduction system"; on each level where pipe is visible.  Yes  No  N/A

### ✓ (2) Vent pipe location and installation

- Vent pipe appears to extend at least 10-feet above the ground, and at the exhaust point to end above the eave/roof (12-24" is typical).  Yes  No  N/A
- Vent pipe appears to end at least 10-feet from any opening into conditioned space (e.g., window or door), or at least 2-feet above any such opening.  Yes  No  N/A
- Vent pipe appears to end at least 10-feet from any opening into conditioned space (e.g., window or door), in an adjacent or nearby building.  Yes  No  N/A
- Fire collar/damper appears to be present if vent pipe penetrates fire rated wall.  Yes  No  N/A
- A short rough-in vent pipe ending above the slab within the basement is capped.  Yes  No  N/A  
(This type of vent pipe is not an approved installation. As a safety precaution the vent pipe should be capped or sealed to prevent radon entry. These installations are incomplete and a consequence of non-conformance with recommended standards; see **About This Checklist** on page 2.)

### ✓ (3) Vent pipe system integrity

- Pipe, fittings/connections appear to be air tight, properly joined/sealed.  Yes  No  N/A
- There are no visible openings or breaks in the pipe system.  Yes  No  N/A
- A pressure monitor is present and operating, and is accessible.  Yes  No  N/A  
(In active systems only; a non-electric instrument, e.g., U-Tube manometer, cylinder, or gauge; or an audible instrument.)

### ✓ (4) Vertical vent pipe penetration(s) (to subsoil beneath the basement floor or slab)

- The sealing/caulking around the vent pipe in the basement floor is intact.  Yes  No  N/A
- A vertical or horizontal vent pipe penetration is present in a (full or partial) crawl space.  Yes  No  N/A
- The crawl space vapor barrier (soil-gas-retarder, e.g., polyethylene) appears to extend to the foundation walls, and the seams appear to be overlapped by at least 12".  Yes  No  N/A

### ✓ (5) Electrical (for active systems only)

- Vent fan plugged cord connection appears to be no more than 6-feet long.  Yes  No  N/A
- Vent fan plugged cord connection is visible, and not concealed within a wall.  Yes  No  N/A
- If outside the building, the vent/mitigation fan is hard wired to a disconnect switch.  Yes  No  N/A
- Vent fan appears to be wired into a non-switched circuit.  Yes  No  N/A  
(That is, not wired through any other switches, e.g., lighting wall switch.)
- The circuit/breaker controlling (hard-wired) vent fan is labeled "Radon System".  Yes  No  N/A

### ✓ (6) Vent or Mitigation Fan(s) (for active systems only)

- If outside, the fan is not below ground (e.g., in a pit).  Yes  No  N/A
- Vent fan is mounted in a vertical (not horizontal) section of pipe.  Yes  No  N/A
- If inside, the fan is located in an unconditioned space, e.g., the attic.  Yes  No  N/A  
(A fan located in the basement does not meet post-1991 EPA recommendations or standards.)

### ✓ (7) Sump

- If the sump is sealed, a trapped drain (or equivalent) should be present and located in the sump cover.  Yes  No  N/A  
(Independent of whether the vent pipe(s) passes through the floor/slab or is installed in the sump.)