

Following Uncertified Installers

Reasons all states need regulation

Not a single thing right

All in one shot

- This is one of two systems on a house in Alabama that did not see a real reduction in radon levels after mitigation by an uncertified company.
- So many violations in one photo, my lead guy said “you’d think they’d have accidentally gotten something right, but no”



Fan in the basement

- There will be another slide, where the fan was installed in the basement, not outside as our standard dictates.
- If there is a poor connection at the fernco fitting or the glue joint of the pipe, especially above the fan, then radon is being captured below the slab and exhausted into the basement and house.



Slab cut, not cored

- The slab has been cut with a saw. When I saw this, and the fact that the fill in material for the cut was similar to leveling concrete, I had immediate serious concerns about the plenum below the suction point.





But is there a benefit?

- Is there a benefit to this situation?
- No plenum and suction point full of concrete.
- You can see that they filled the void with self leveling compound including the pipe!!!
- But honestly, is there a benefit?



Yes, the benefit emerges

- If you are going to install the fan inside the house, using sewer pipe, and ignore glueing the pipe joints, then not being able to grab the radon below the surface does become a benefit.
- Here is the reason there is no change in radon levels when this install was complete
- Cudos to Radonaway, I dont know how the fans didnt burn up.



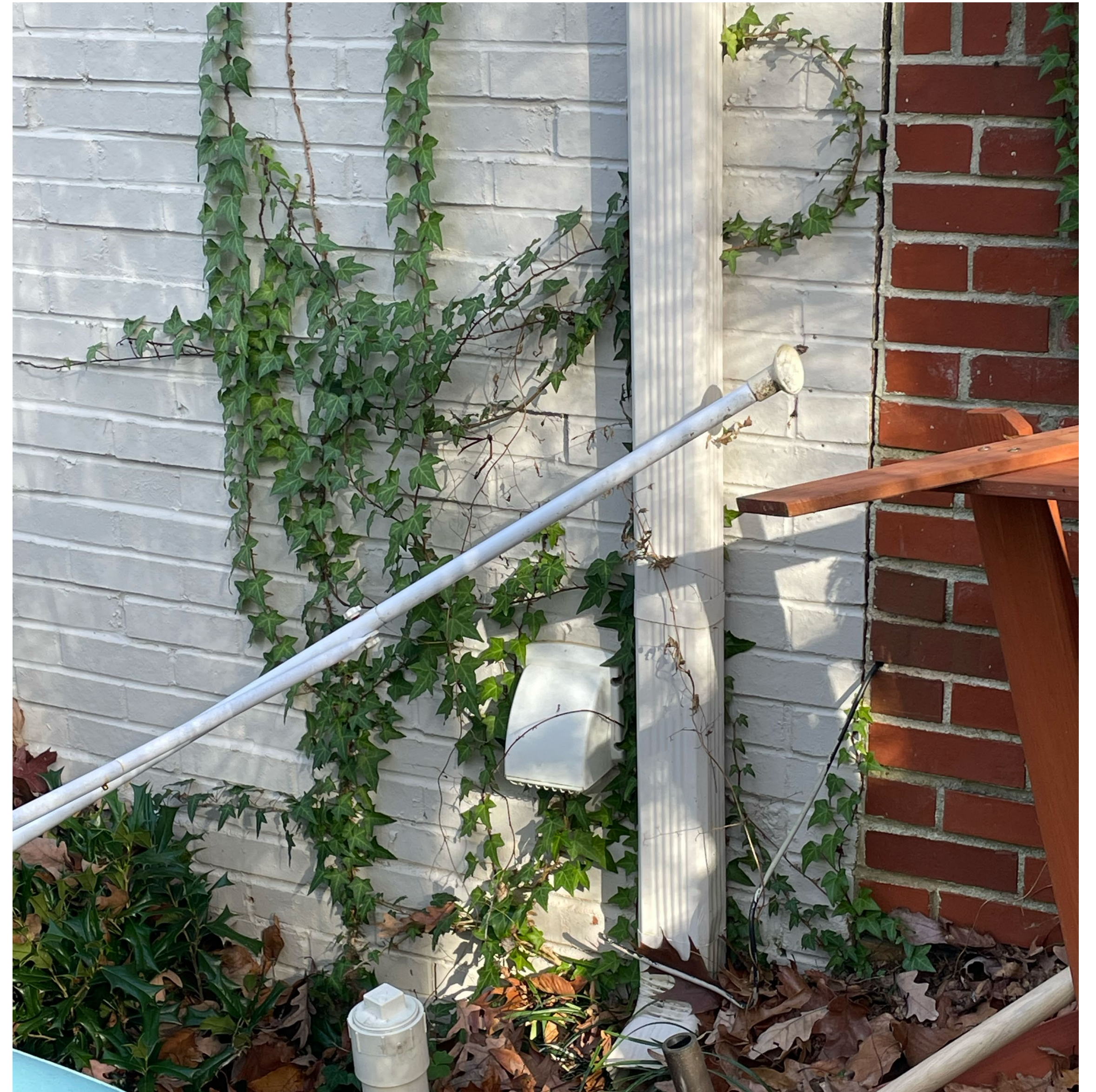
No glue issue

- In all sincerity, if this system was actually pulling radon, a portion of that radon would have been under pressure and being exhausted into the basement.
- Those of us that work in uninspected states need to be very conscious of this situation. Think of the liability if you are shown to have exhaust radon into the home and the results that can follow.



Exhaust point at ground level

- The dryer vent seen in this photo is the exhaust point from one of the interior radon systems.
- There is a path all around this house, and a window just above this exhaust.



Exhaust next to window

- Again, multiple things wrong here
- Gutter material is not an accepted piping material as it cannot be sealed at the joints
- Again, this pipe also right next to a path, probably used daily as it is from the carport to the rear entry of the home



Proximity to window

- I know it is an old looking house, but these are operable windows
- The exhaust for this system is right next to the window
- Clearly the installers have not looked at the standard at any time.



1st system replaced

- New core
- Plenum created
- System properly strapped to wall
- All schedule 40 pvc
- Joints glued properly



Exhaust pipe

- Properly strapped
- Properly labelled
- Schedule 40



New fan location

- Exterior fan location
- With switch for cut off, lock out tag out when working on fan



Exhaust point

- Pipe run above roof line and window
- Critter guard installed



Protected

- Now the house is well below 2.0 pCi/L
- Sleep well, protected and safe



Why regulation is needed.

- The system shown here is not uncommon.
- Safer installation, through best practices
- More efficient systems
- Respect for the industry grows
- Seriousness of the dangers of Radon are recognized
- Insured installers to protect clientele