

Blount County Department of Building Safety

Radon Vent Installation Requirements

REV. 012610



Basements & Monolithic Slabs:

1. A gas permeable layer is required under all basement or monolithic slabs. This layer can consist of 4 inches of clean gravel, typically #57 stone.
2. A minimum 3 inch schedule 40 PVC pipe with a tee shall be placed in the gravel layer prior to pouring concrete. This pipe shall extend into the attic space where it can be capped off for future mitigation, if necessary.
3. In buildings where interior footings separate the sub-slab gravel, each area shall be fitted with an individual vent pipe that connects together to a single vent or terminates individually in the attic.
4. These pipes shall be labeled "RADON" for easy identification.
5. An electrical receptacle shall be placed in the attic area to provide for future installation of a mechanical venting system.
6. A 6-mil vapor barrier is required to cover the gravel lapped 12 inches. Any tears or holes shall be covered with additional vapor barrier.
7. All penetrations or expansion joints through the basement slab shall be caulked with a silicone based material to prevent air leakage once the slab has been poured.

Crawl Spaces (Vented and Unvented):

1. Crawl spaces are required to have a 6-mil vapor barrier lapped 12 inches and extending to all foundation walls. Crawl spaces are not required to have a gas permeable layer of gravel provided.
2. A minimum 3 inch schedule 40 PVC pipe with a tee shall be placed beneath the vapor barrier. This pipe shall extend into the attic space where it can be capped off for future mitigation, if necessary.
3. All penetrations through floors above crawl spaces shall be caulked to prevent air leakage.
4. These pipes shall be labeled "RADON" for easy identification.

***The methods described above are components of passive depressurization systems. These are required during construction based on Appendix F of the 2006 International Residential Code (IRC) for future installation of mitigation systems.**