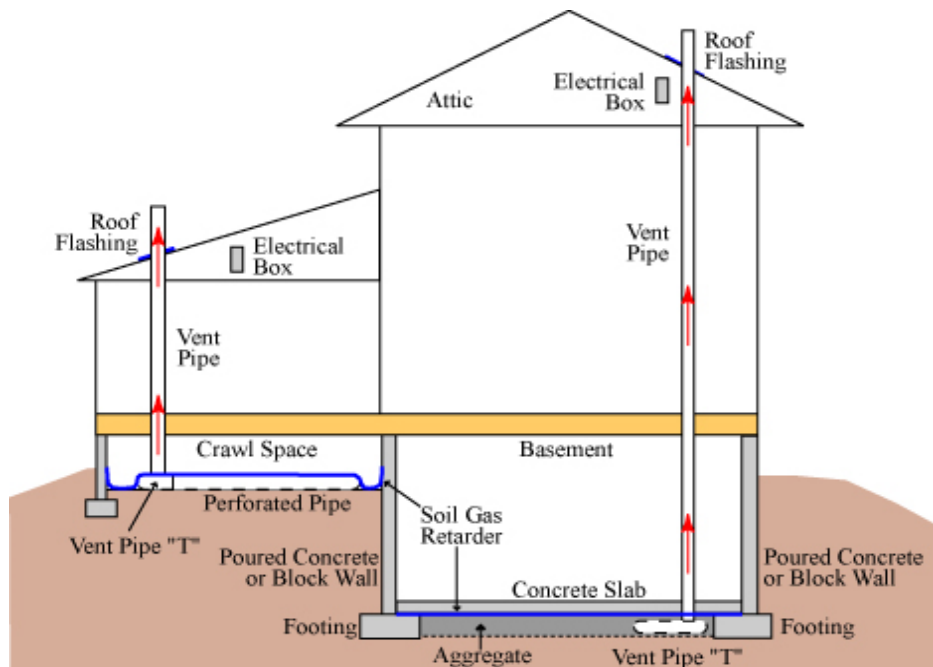


# Passive Radon System Requirements

2020 MN Residential Code 1303.2402

## Required under concrete slab of conditioned spaces:

1. A **gas permeable material** consisting of: 4" of clean aggregate 2" to ¼" size, or 4" of native sand overlain by a layer or strips of geotextile drainage matting, or other engineered designed systems to allow depressurization, covered by a 6-mil poly **soil gas membrane** with seams lapped at least 12" and closely fitted around all penetrations through the soil gas membrane.
2. A minimum 3" diameter ABS or PVC vent pipe with one 10' section of perforated pipe connected to each side of a "T" fitting embedded into the sub-slab rock and extend at least 12" above roof surface 10" away from any conditioned space opening. **Alternatively**; the radon vent pipe may be inserted into the drain tile loop or sealed sump basket.
3. All horizontal portions of vent pipe shall slope for drainage to ground.
4. Radon vent pipe shall be labeled and, insulated to R-4 minimum in unconditioned spaces.
5. Provide space around vent pipe to allow future installation of fan system.
6. Install electrical outlet in anticipated location of vent pipe fan for future fan installation. The power source **cannot be located** in any conditioned space, basement or crawl space.
7. A rock and poly inspection are required before pouring concrete.
8. The building final inspection will include checking for "**sealing**" where the slab meets the foundation wall, at all concrete joints, and around all penetrations through the concrete slab.



Accuracy – Efficiency – Uniformity