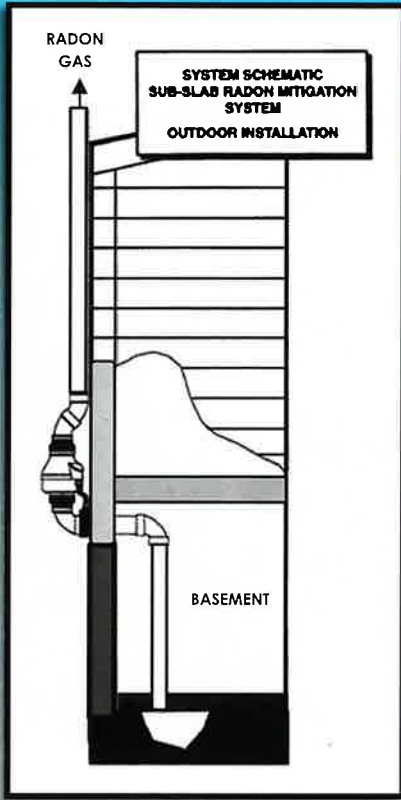


Radon Mitigation

Basement Technologies:

Installing Radon Mitigation Systems for close to 30 years.

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The Basement Specialists™
Basement Waterproofing



THERE ARE 3 POSSIBLE ROUTES FOR YOUR RADON ELIMINATION PIPE INSTALLATION:

- Exterior
- Interior
- Garage route

EXTERIOR ROUTE:

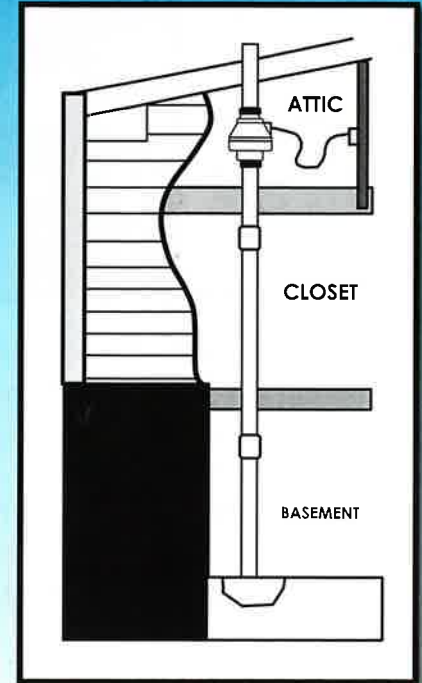
The most common is exterior with fan mounted on band board of home and exit point to eave line 10 feet away from adjacent opening or 2 feet above if within ten feet.

INTERIOR ROUTE:

This is usually through the house through stacked closets. The fan is mounted in an UNCONDITIONED attic space and penetrates the roof.

GARAGE ROUTE:

We penetrate through the garage with a fire ring in case of fire. The fire ring and pipe are mounted in an UNCONDITIONED garage roof.



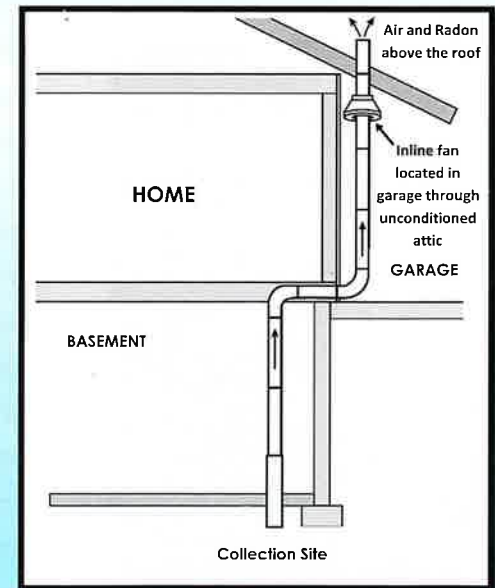
WHAT ARE "DROP POINTS"?

In radon system the low pressure "field" is established by the introduction of suction under slab. The "communication" is the continuity of pressure under the slab that draws the radon gas and moves it toward the "collection point" – The collection point is simply the area the slab is penetrated and the pipe is installed. The pipe creates a vacuum and draws the radon into the pipe and to the exit point at eave line or roof.



WHAT IS A MANOMETER?

The manometer is a "u-tube" that measures suction in water column inches and is mounted at eye level over each collection point.



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WHY ARE THERE DIFFERENT TYPES OF FANS?

There are multiple fans that can be obtained but after all is said and done there are only two distinctions:

1) High volume and 2) High suction.

High volume fans are usually for newer construction applications where there is excess of stone under the slab and in order to create a field of suction

there is a necessity to move large volumes of air that is due to excellent communication. If the volume of air is not moved quickly the radon gas can make it form under the slab into the habitable area.

High suction fans are generally for older construction where there will not be great communication under the slab (less stone, more dirt). We need to “draw hard” for a field of communication under the slab.

SOME BASIC GUIDELINES FOR RADON MITIGATION:



Exterior Installation

- Exit points: Ten feet from any adjacent openings – 2 feet above any openings that are within ten feet
- Be aware of rain water entry
- Pipe attached to home every 6-8 feet on vertical rise
- Manometer at all collection points
- Clear labeling of all interior pipes stating “radon system” and listing license number
- Labeling of dedicated circuit for radon fan
- Radon fan hard-wired to panel
- Communication and back draft tests done before mitigation leaves



Interior Garage or
House Roof



Through Unconditioned Attic

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