



### 2006 IRC REQUIREMENTS

1. Place the 3" or 4" tee below the slab and vapor barrier in at least 4" of gravel (i.e. #57 stone).
2. Seal around the pipe where it passes through the slab and all other slab penetrations and joints. Sealant is recommended to be silicon based.
3. The 3" or 4" vent pipe needs to be routed up to the attic area vertically as much as possible. If a horizontal run must be installed it shall be sloped a minimum of 1/8" per foot towards the low point of the pipe. The horizontal run should never exceed the vertical length of pipe.
4. The pipe may terminate in the attic and be capped. Label the pipe as "RADON PIPE" at each floor level and in the attic. A 110 outlet is recommended to be roughed in if a future vent fan is required. *NOTE: A mechanical vent may be required in a crawl space if the ventilation does not meet the code requirements.*

## EPA RADON RECOMENDATIONS

### What are Radon-resistant construction techniques?

The techniques may vary for different foundations and site requirements, but the basic elements are:

#### A. Gas Permeable Layer

This layer is placed beneath the slab or flooring system to allow the soil gas to move freely underneath the house. In many cases, the material used is a 4-inch layer of clean gravel.

#### B. Plastic Sheeting

Plastic sheeting is placed on top of the gas permeable layer and under the slab to help prevent the soil gas from entering the home. In crawlspaces, the sheeting is placed over the crawlspace floor.

#### C. Sealing and Caulking

All openings in the concrete foundation floor are sealed to reduce soil gas entry into the home.

#### D. Vent Pipe

A 3- or 4-inch gas-tight or PVC pipe (commonly used for plumbing) runs from the gas permeable layer through the house to a point 12" above the roof, to safely vent radon and other soil gases above the house.

#### E. Junction Box

An electrical junction box is installed in case an electric venting fan is needed later.

