

## Radon Depressurization

Floors-on-ground shall be provided with a rough-in for subfloor depressurization (NBC 9.13.4.3.) consisting of:

**A gas-permeable layer, an inlet and an outlet,** which shall include:

- A gas-permeable layer installed in the space between the air barrier and the ground to allow the depressurization of that space,
- An inlet that allows for the effective depressurization of the gas-permeable layer (see diagram below), and
- An outlet in the *conditioned* space that: i) permits connection to depressurization equipment, ii) is sealed to maintain the integrity of the air barrier system, and iii) is clearly labelled to indicate that it is intended only for the removal of radon from below the floor-on-ground.

**OR**

**Clean granular material and a pipe,** which shall include:

- Clean granular material (e.g. “radon rock” – not less than 100 mm of coarse clean granular material containing not more than 10% of material that will pass a 4 mm sieve) installed below the floor-on-ground, and
- A pipe not less than 100 mm in diameter installed through the floor, such that: i) its bottom end opens into the granular layer required in Clause 3(a) at or near the centre of the floor and not less than 100 mm of granular material projects beyond the terminus of the pipe measured along its axis (see diagram below), ii) its top end permits connection to depressurization equipment and is provided with an airtight cap, and iii) the pipe is clearly labelled near the cap and, if applicable, every 1.8 m and at every change in direction to indicate that it is intended only for the removal of radon from below the floor-on-ground.

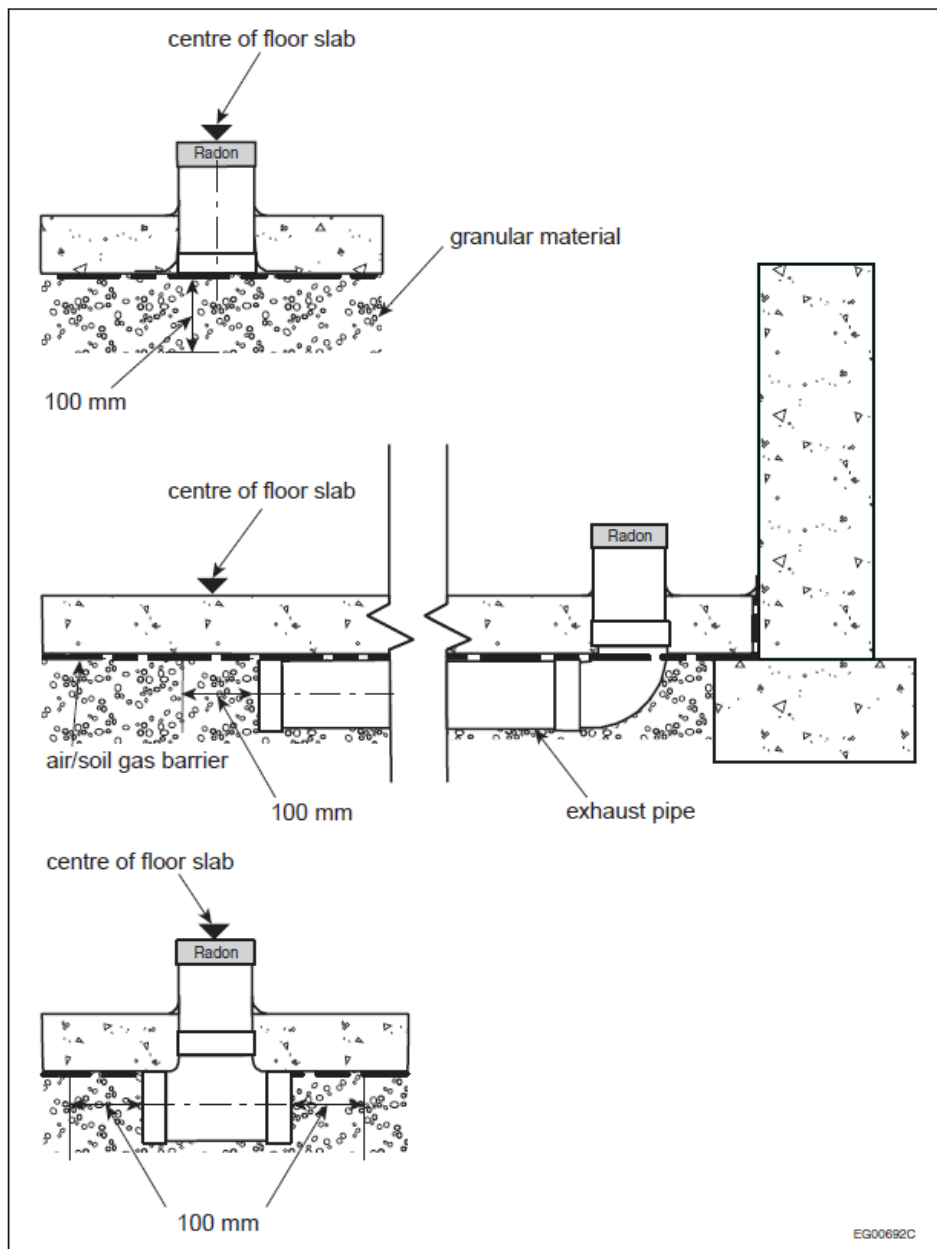


Figure A-9.13.4.3.(2)(b) and (3)(b)(i)

Acceptable configurations for the extraction opening in a depressurization system