



CLEARVIEW

## Radon and Soil Gas Control Information Guide

The New 2024 Ontario Building Code effective January 1<sup>st</sup>, 2025, now requires the rough-in for a subfloor depressurization system along with measures to provide protection from radon and soil gas ingress into a new buildings.

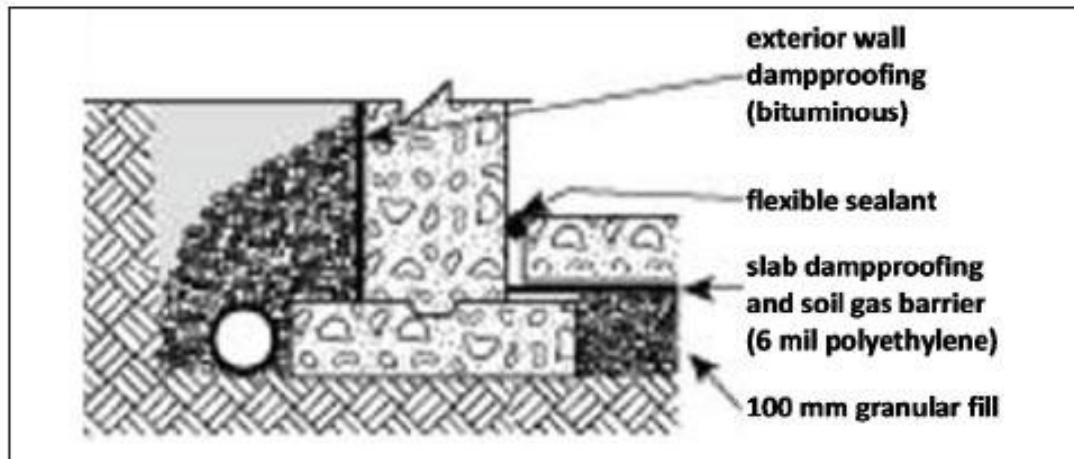
### Radon Gas Barrier Requirements:

1. walls (bituminous damproofing), and OBC Reference: Sentence 9.13.4.2.(3), of Division B
2. Under the basement floor slab using 6 mil polyethylene lapped not less than 300 mm, and OBC Reference: Figures SB-9A or SB-9B of Supplementary Standard SB-9 or as an alternative to the use of the polyethylene a 75mm 25MPa concrete slab without poly may be used.
3. Sealing along the perimeter of the basement floor slab and at all penetrations using flexible sealant (polyurethane caulking).  
OBC Reference: Clause 9.13.4.2.(4)(a), of Division B, and Supplementary Standard SB-9
4. Sump pump provided with a sealed cover designed to resist removal by children. OBC Reference 9.14.5.2. of Division B.

**Note:** Care must be taken when installing 6 mil polyethylene since it is prone to puncture. Please ensure the 6-mil polyethylene is adequately protected. **As an alternative to the use of the polyethylene a 75mm 25MPa concrete slab without poly may be used.**

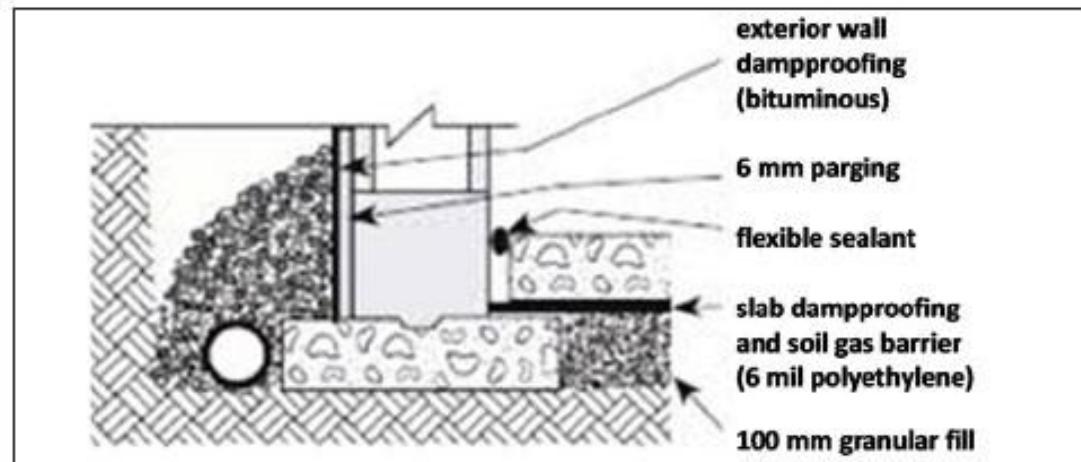
### Sketch Drawings for Radon Gas Barrier.

Figure 1



*Solid Foundation Wall*

Figure 2

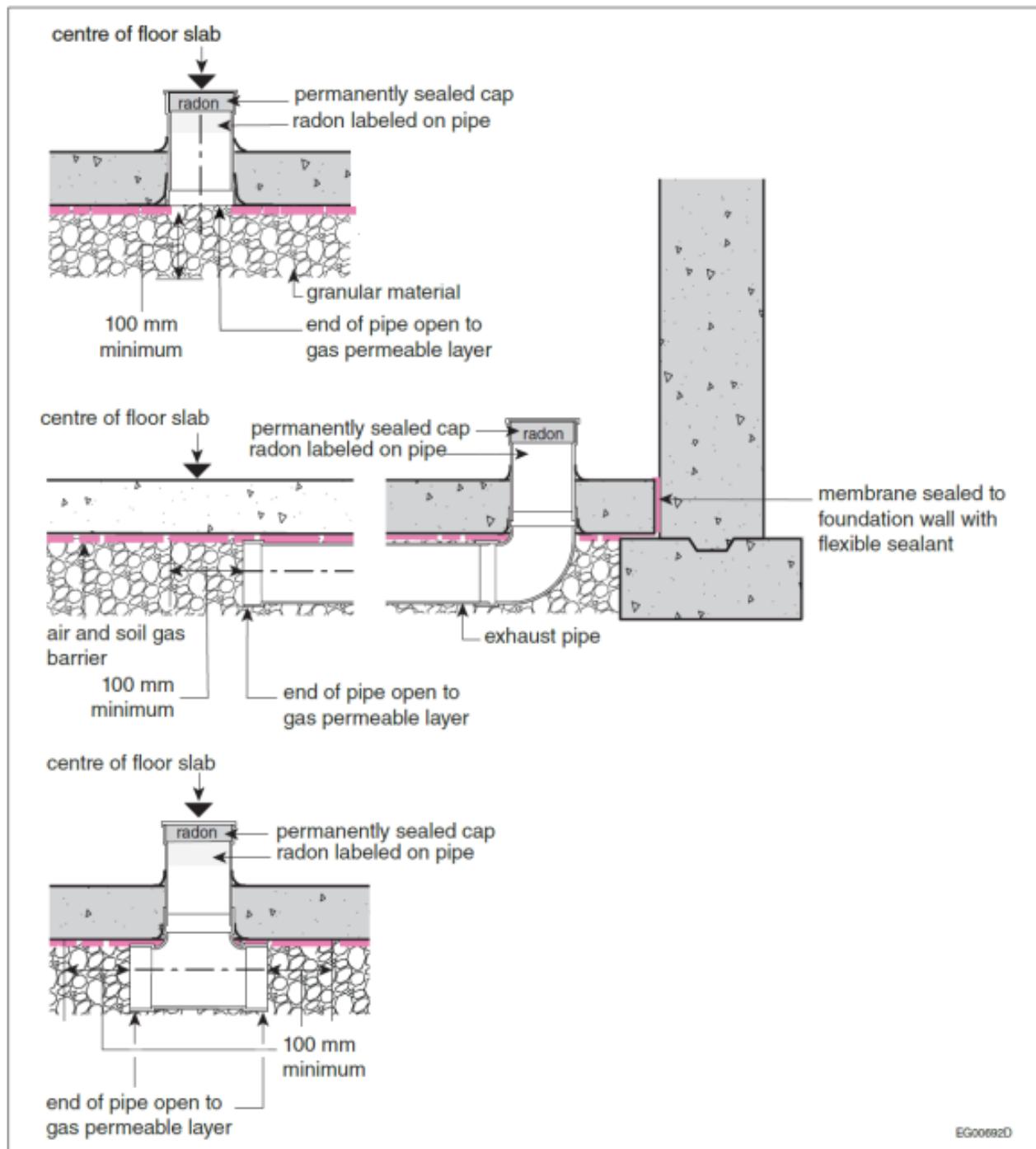


*Hollow Foundation Wall*

#### Subfloor Depression Rough-In Requirements:

1. A 100 mm diameter pipe rough-in installed vertically through the floor at or near its centre. *OBC Reference: Supplementary Standard SB-9*
2. Minimum 150 mm granular material for a radius not less than 300 mm centered on the pipe, with the bottom of the pipe open to the granular,
3. The upper end of the pipe shall be provided with a removable sealed cap and labeled to indicate for “Radon Gas Removal Only”.

## Sketch Drawings for Subfloor Depression Rough-In



**Figure 3 Note** 150mm deep granular material required for a radius of 300mm at the centre of slab. Additionally, as an alternative to the use of the polyethylene a 75mm 25MPa concrete slab without poly may be used.

### Any Questions?

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### Office hours.

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