

Radon Mitigation Certification Form

(for all Part 3 buildings and for Part 9 ICI and non-low-rise multi-unit residential buildings)



Project Address: _____ Application Number: _____

The individual(s) responsible for the subject building shall complete the information fields below to confirm that the building or addition (*see note 1*) has been designed to include the radon mitigation measures listed in the table below pursuant to:

- OBC Div. B, 5.4.1.1.(1).(a) and 6.2.1.1.(1).(l) (which references EPA/625/R-92/016) for Part 3 buildings, and
- OBC Div. B, 9.13.4. and 9.32.1.1.(2) (which references Part 6 and EPA/625/R-92/016) for Part 9 buildings.

By signing this form, the individual(s) acknowledges they are responsible for carrying out detailed reviews of all radon mitigation measures during construction and will be required to submit a General Review letter to the City upon completion, confirming the installation complies with the design. Building inspectors may also request progress site review reports from this individual(s) to confirm installation is being monitored during construction.

<p>Architectural Measures: (see notes 2, 7, 8)</p> <p>1. Sealing of walls (e.g. bituminous dampproofing), roofs (e.g. waterproofing) and floors (e.g. 6 mil polyethylene sheet) that are in contact with the soil, including connections and any penetrations through them.</p>	<p>_____ Signature Date (YY/MM/DD)</p> <p>_____ Name and Title Registration No.</p> <p>_____ Address</p> <p>_____ City Province Postal Code</p>
<p>Mechanical Measures: (see notes 3, 7, 8)</p> <p>2. Pipe rough-in only of an active soil depressurization (ASD) system. (see note 4)</p>	<p>_____ Signature Date (YY/MM/DD)</p> <p>_____ Name and Title Registration No.</p> <p>_____ Address</p> <p>_____ City Province Postal Code</p>

If this building is exempt from these requirements, indicate the reason why in the space below. (*see note 1*):

<p>_____ _____ _____ _____ _____ _____ _____</p>	<p>_____ Signature Date (YY/MM/DD)</p> <p>_____ Name and Title Registration No.</p> <p>_____ Address</p> <p>_____ City Province Postal Code</p>
--	---

Radon Mitigation Certification Form

(for all Part 3 buildings and for Part 9 ICI and non-low-rise multi-unit residential buildings)



Notes:

1. Radon mitigation measures are not required in the following cases:

- Additions that do not exceed 50m² in building area
- Storage /parking garages
- Temporary structures (e.g. tents)
- Unenclosed building or addition, or portions thereof (e.g. pavilion, open-air viewing stands, grandstands, bleachers)
- Building or addition, or portions thereof, used solely for storage (e.g. self-service storage)
- Elevated building or addition, or portion thereof, where walls, roofs and floors are not in contact with the ground (e.g. apartment building entirely above a parking structure)

For buildings where a future change of use can reasonably be expected, from one that is exempt from radon mitigation measures to one that requires them (e.g. a storage warehouse in an industrial strip mall that could turn into a regularly occupied space use), radon mitigation measures are required for the entire building.

2. Design of architectural measures to be carried out by an Architect or Professional Engineer.
3. Design of mechanical measures to be carried out by a Professional Engineer.
4. Since radon concentration varies from site to site, and because it cannot be measured properly until the building is constructed, a full ASD system with suction fans will not be required unless long-term testing demonstrates one is necessary. Instead, the responsible contractor will only be required to install the rough-in soil gas piping for the ASD system. This includes suction pits and piping below the floor, as well as capped piping inside the building.
5. Long-term testing is required once construction is complete and the building is operational. Testing shall be carried out by a C-NRPP certified "Radon Measurement Professional" for a minimum of 91 days during the winter months, and shall follow all applicable sections in Health Canada Publication 4175, "Guide for Radon Measurements in Public Buildings (Schools, Hospitals, Care Facilities, and Detention Centres)". If concentration levels exceed 200 Bq/m³, a full ASD system, including fan(s), shall be installed.
6. In addition to showing the rough-in drawing details, Designers may also wish to include details showing the piping layout inside the building, fan locations and specifications, and details on the fan warning device in the event that long-term testing indicates that a full ASD system needs to be installed. Although some aspects the system cannot be properly designed until a sub-slab communication test has been performed onsite (e.g. fan size, fan flow rate, and above slab piping diameter), submitting preliminary details will provide an opportunity for the plans examiner to provide preliminary comments.
7. Designs that do not incorporate the two measures listed in the table above will require a letter from the Designer(s) identifying the reasoning for exclusion of that measure.
8. Designs that deviate from the applicable requirements will require a letter from the Designer(s) stating that the proposed Level of Performance will meet or exceed that required in the Ontario Building Code and/or EPA/625/R-92/016, and shall list the standard and/or guideline that was used. Designers will be notified if a formal "Application for an Alternative Solution" is required after the permit application has been reviewed.