



# INTRODUCING: RADON ABATEMENT SYSTEM



FOAMULAR® NGX®

**RADONBARRIER™**

RADON ABATEMENT SYSTEM

# WHAT IS RADON? THE SILENT KILLER.

Radon is a radioactive gas that is odourless, colourless, and tasteless. It is produced by the breakdown of uranium found in sediment (soil), rocks, and water. When radon is released into the atmosphere it gets diluted and poses negligible risk to human health. However, if radon accumulates in an enclosed space, such as a home, it can concentrate and pose a serious health risk.

## RADON AND THE CANADIAN LANDSCAPE

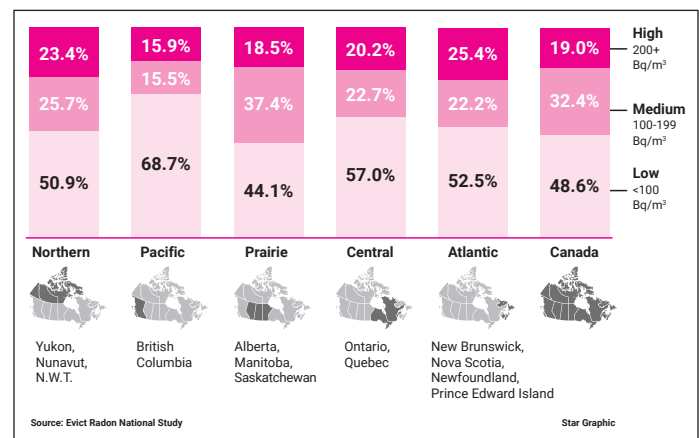
Between 2009 and 2011, Health Canada conducted a survey of radon concentrations in homes across Canada. The study tested radon levels in **14,000 homes over three months and here are the results:**

- 1 in 5 homes showed radon level exceeding Health Canada guidelines of 200 becquerels per cubic metre (Bq/m<sup>3</sup>)<sup>1</sup>
- 7% of Canadian homes have high radon levels<sup>2</sup>
- Canadian Building Code recommending to encapsulate radon
- There are no areas of the country that are 'radon free.'<sup>3</sup>
- Radon kills 3,000 Canadians and 21,000 Americans per year<sup>4</sup>
- 1 in 15 homes in the U.S. and Canada have high radon levels<sup>5</sup>

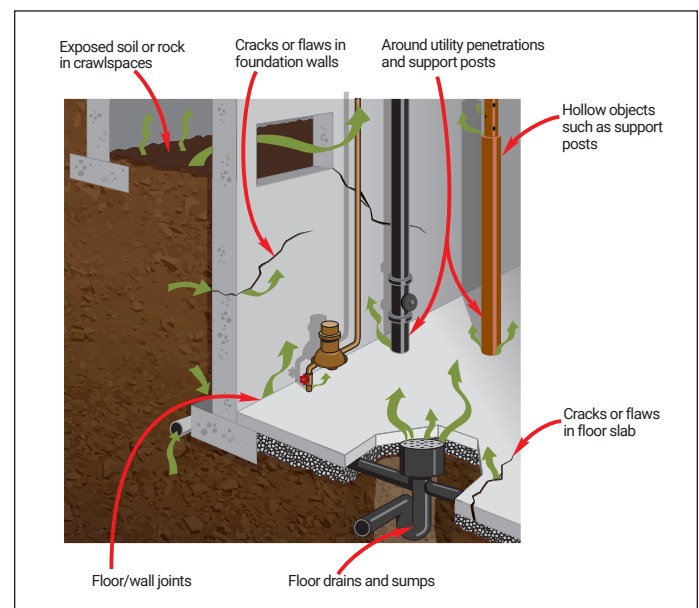
***"Radon exposure is linked to approximately 16% of lung cancer deaths in Canada and is the second leading cause of lung cancer for smokers."***

This has prompted concern that radon levels in some Canadian homes and buildings may be a health risk. It is estimated that about 10% of all lung cancers worldwide are related to radon.

## RADON LEVELS FOUND IN HOMES ACROSS CANADA



**Radon can enter via cracks in the foundation walls and/or floor slabs. It can also enter through other openings, including:**







# BUILD SAFE, COMFORTABLE AND HEALTHY LIVING SPACES.

## OWENS CORNING® FOAMULAR® NGX® RADON ABATEMENT SYSTEM

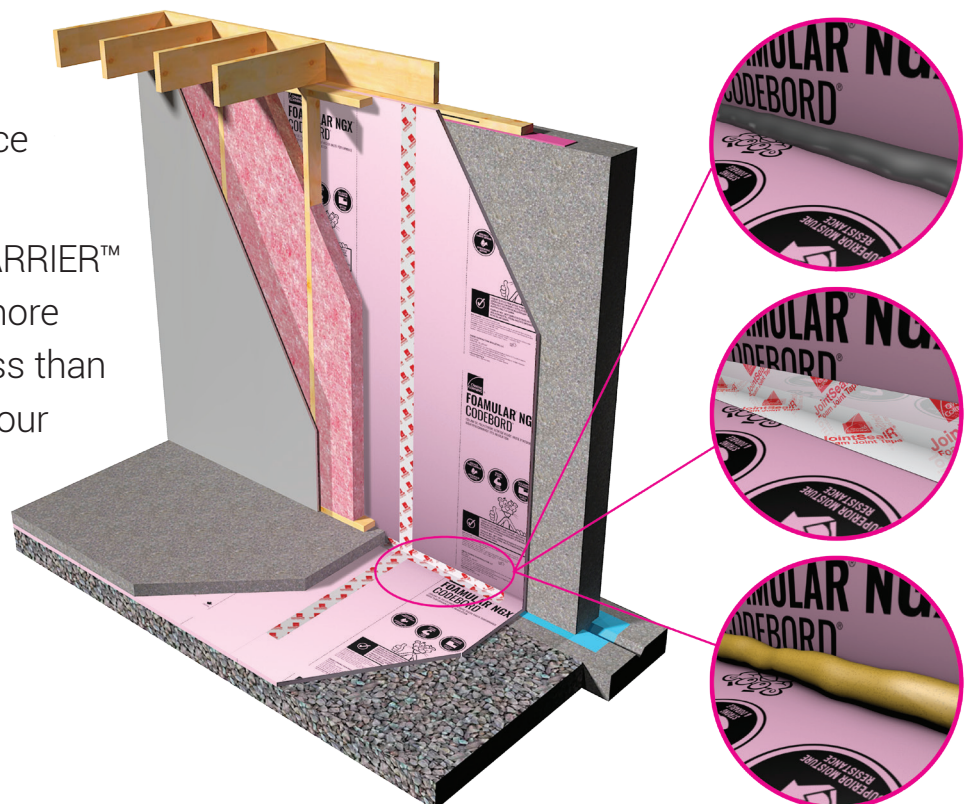
**How the FOAMULAR® NGX®  
RadonBARRIER™ Radon Abatement  
System keeps radon gas from  
entering the home:**

### Features:

- High compressive strength
- Not affected by moisture
- Long-term thermal resistance (RSI 0.88 per 25.4 mm)
- FOAMULAR® NGX® RadonBARRIER™ Abatement System is 36X more resistant to radon gas ingress than a 6 mil. polyethylene air/vapour barrier membrane used under concrete slabs<sup>6</sup>
- Air Barrier System
  - CCMC Report 12935-R
- Radon Abatement System
  - CCMC Report 14349-R<sup>8</sup>

### Components:

- FOAMULAR® NGX® CodeBord® Extruded Polystyrene Rigid Insulation<sup>7</sup>
- Owens Corning® JointSealR® Tape
- Owens Corning® ProPink ComfortSeal™ Gun Foam or Code Compliant Flexible Sealant



# RADONBARRIER™ SYSTEM BENEFITS:

- Only XPS system solution evaluated by CCMC - CCMC Report 14349-R<sup>8</sup>
- 36X greater performance than 6 mil. poly
- No polyethylene required<sup>9</sup> vs. EPS
- Less expensive than SPF<sup>10</sup>
- Skilled trades not required
- Can be installed year round and in temperatures down to -18 °C

## UPGRADE YOUR SEMI-FINISHED BASEMENT TO ADDITIONAL SAFE, VALUABLE LIVING SPACE

- Opportunity to gain revenue up to \$4,000 per home<sup>11</sup>
- More homeowners are working from home these days
- They need more space – office & recreational areas
- Add more comfort and safety with a radon-free finished basement
- Provide a healthier environment<sup>12</sup>

<sup>1</sup>Toronto Star May 2, 2021 re University of Calgary research.

<sup>2</sup>Health Canada Study 2009 – 2011, 14,000 homes.

<sup>3</sup>Health Canada Study 2009 – 2011, 14,000 homes.

<sup>4</sup>Haynes, William M., ed. (2011). CRC Handbook of Chemistry and Physics (92nd ed.). Boca Raton, FL: CRC Press. p. 4.122. ISBN 1439855110.

<sup>5</sup>Kusky, Timothy M. (2003). Geological Hazards: A Sourcebook. Greenwood Press. pp. 236–239. ISBN 9781573564694.

<sup>6</sup>NRCAN Radon Abatement Test Report No. A1-020145, October 20, 2021. Owens Corning FOAMULAR® NGX® CodeBord® with taped or sealed joints is 36X greater than 6 mil. polyethylene as a radon barrier material.

<sup>7</sup>FOAMULAR® NGX® C-200 can also be used.

<sup>8</sup>Only Radon Abatement System solution with XPS evaluated by CCMC - Report 14349-R

<sup>9</sup>Verify local applicable building codes.

<sup>10</sup>Elimination of poly.

<sup>11</sup>As per calculations by S. Ciarlo, Technical Leader, Owens Corning Canada.

<sup>12</sup>Compared to Radon exposure.



To learn more about the Owens Corning® FOAMULAR® NGX®  
RadonBARRIER™ Abatement System, visit [radonbarrier.ca](http://radonbarrier.ca).



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Pub. No. 501314B. Printed in Canada. April 2025.  
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