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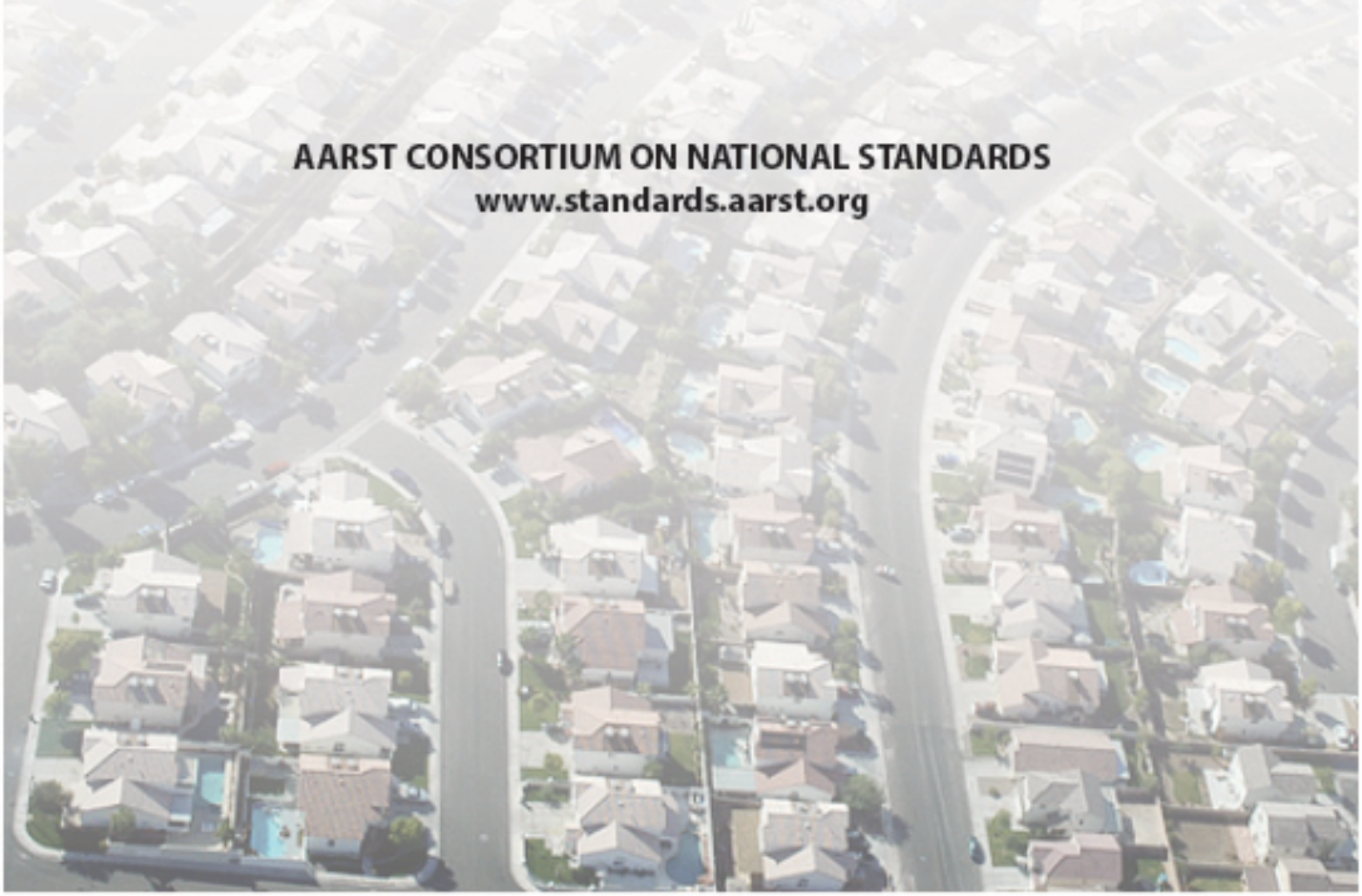




An American National Standard

Reducing Radon in New Construction
of 1 & 2 Family Dwellings and Townhouses

AARST CONSORTIUM ON NATIONAL STANDARDS
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CCAH

Reducing Radon in New Construction of One & Two Family Dwellings and Townhouses

Scope Summary and Introduction

This standard provides minimum requirements for the rough-In of radon control system components in new dwelling units under construction. CCAH also includes minimum requirements for verifying if radon concentrations are below the national action level and, if required, activation of radon control systems.

Updates for 2023

Section 801.1 improves upon practical application of initial radon testing after a home is constructed and Appendix B provides definition for qualities associated with acceptable certification programs. While recommended for immediate use, the effective date for compliance with this standard is **December 1st, 2023**.

Significance of Use

This standard was developed to respond to the threat of cancer caused by radon gas in homes. Radon is the leading cause of lung cancer among nonsmokers and the second leading cause of lung cancer in the general population.[1] Most people receive their greatest exposure to radon in their homes. Radon in U.S. homes causes approximately 21,000 lung cancer deaths each year.[2] Be it at home, work or school, an individual's exposure to radon gas combines over time to increase the risk of preventable lung cancer.

Designation of this standard: CCAH

As used for catalogue identification, "CCAH" stands for Construction Code Applicable to Homes.

The Consensus Process and Continuous Maintenance

The consensus process developed for the AARST Consortium on National Standards and as accredited to meet essential requirements for American National Standards by the American National Standards Institute (ANSI) has been applied throughout the process of approving this document. This standard is under continuous maintenance by the AARST Consortium on National Standards.

User Tools: User tools are posted online (https://standards.aarst.org/public-review/) as they become available, such as templates for field notices, inspection forms and, across time, interpretations, and approved addenda updates.

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[1] World Health Organization, "WHO Handbook on Indoor Radon: A Public Health Perspective" 2009

[2] National Academy of Sciences, "Biological Effects of Ionizing Radiation" (BEIR VI Report) 1999

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SECTION 101
GENERAL

101.1 Purpose.

The purposes of this standard shall be as follows:

1) To specify radon control methods and techniques for use in *dwelling* units to reduce indoor *radon* concentrations to below the *National Action Level* (NAL) of 4.0 pCi/L [150 Bq/m^3].
2) To provide minimum requirements for the *rough-In* of *radon control system* components in new *dwelling* units under construction and activation of the *radon control systems*, if required.
3) To provide a model set of requirements for adoption by states and local jurisdictions.
4) To provide a means for authorized personnel to inspect and evaluate *rough-In* components of *radon control systems* and activated *radon control systems* in new construction.

101.2 Scope.

This standard shall be applicable only to in newly constructed one- and two-family *dwellings* and *townhouses*.

SECTION 102
LIMITATIONS

102.1 General.

The requirements of this standard shall have limitations as indicated in Sections 102.1.1 through 102.1.6.

102.1.1 Results not guaranteed.

The application of the requirements of this standard does not guarantee that the NAL or any other specific indoor *radon* concentration will be attained.

102.1.2 Alterations.

The application of the requirements of this standard does not guarantee that the NAL or any other specific indoor radon concentration will be maintained where modifications, alterations, structural changes or additions to a *dwelling* occur.

102.1.3 ASD control.

The specifications within this standard are limited to *rough-In* of *radon control system* components and activation of *radon control systems* based on the methodology of Active Soil Depressurization (ASD).

102.1.4 Soil-borne radon.

The requirements of this standard address only soil-borne *radon*. *Radon* from other sources such as water and building materials are not addressed.

102.1.5 Prior systems.

This standard shall not apply to *radon* control means that have been installed prior to the effective date of this standard.

102.1.6 Soil testing.

This standard does not require or provide guidance for soil testing or analyzing the *radon* potential of a building site prior to construction of the building.