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**CSA/ANSI Z21.42:13**  
*(reaffirmed 2018)*

## **Gas-fired illuminating appliances**

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# CSA/ANSI Z21.42:13

## *Gas-fired illuminating appliances*



*American National Standards Institute, Inc.*



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# Preface

This is the fourth edition of ANSI Z21.42-2013, Gas-fired illuminating appliances.

This Standard was prepared by the Z21/CSA Joint Technical Advisory Group on Standards for Outdoor Cooking and Illuminating Gas Appliances, under the jurisdiction of the Technical Committee on Performance and Installation of Gas Burning Appliances and Related Accessories, and the Strategic Steering Committee on Standards for Fuel Burning Equipment, and had been formally approved by the Technical Committee and American National Standards Institute.

**Interpretations:** The Z21/83 Technical Committee on Standards for Performance and Installation of Gas Burning Appliances and Related Accessories has provided the following direction for the interpretation of standards under its jurisdiction: "The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA's procedures for interpretation shall be followed to determine the intended safety principle."

**Notes:**

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This publication was developed by consensus, which is defined by CSA Policy governing standardization – Code of good practice for standardization as "substantial agreement." Consensus implies much more than a simple majority, but not necessarily unanimity." It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this publication.*
- 4) *This Standard is subject to periodic review, and suggestions for their improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to [inquiries@csagroup.org](mailto:inquiries@csagroup.org) and include "Proposal for change" in the subject line:*
  - a) *Standard designation (number)*
  - b) *relevant clause, table, and/or figure number;*
  - c) *wording of the proposed change; and*
  - d) *rationale for the change.*
- 5) *To submit a request for interpretation of this Standard, please send the following information to [inquiries@csagroup.org](mailto:inquiries@csagroup.org) and include "Request for interpretation" in the subject line:*
  - a) *define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;*
  - b) *provide an explanation of circumstances surrounding the actual field condition; and*
  - c) *where possible phrase the request in such a way that a specific "yes" or "no" answer will address the issue.*

*Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at [standardsactivities.csa.ca](http://standardsactivities.csa.ca).*

## History of the development of ANSI Z21.42-2013

**Note:** *This history is informative and is not part of the standard.*

At the March 10, 1959 meeting of the ASA Sectional Committee Z21, it was agreed that there was a need for a standard for gas lights which were being installed in large numbers in various sections of the country. The group accordingly authorized establishment of a subcommittee to have jurisdiction over standards for gas-fired illuminating appliances.

The subcommittee on Approval Requirements for Gas-Fired Illuminating Appliances held its first meeting on April 5-6, 1960, at which time a tentative draft standard was adopted and the American Gas Association, Inc., Laboratories were requested to conduct experimental tests on representative types of gas lights. The results of these experimental tests were reviewed by the subcommittee at its April 17, 1962 meeting, at which time a draft standard was adopted for review and comment.

The draft standard was distributed for review and comment during June, 1962. It was reconsidered by the subcommittee at its September 13, 1962 meeting, in the light of comments received. The resultant standard was ratified by the ASA Sectional Committee Z21 by letter ballot.

The first edition was later approved by the sponsor, the American Gas Association, Inc., and endorsed as an American Standard by the American Standards Association, Inc., on June 26, 1963.

On August 24, 1966, the American Standards Association, Inc., was reconstituted as the United States of America Standards Institute. On October 6, 1969, the United States of America Standards Institute was renamed American National Standards Institute, Inc.

Following the same procedure outlined above, further revisions deemed necessary in line with developments in the industry were endorsed by the American National Standards Committee Z21 at its February 18, 1970 meeting. The third edition was subsequently endorsed as American National Standard by the American National Standards Institute, Inc., on April 8, 1993.

This, the fourth edition, was approved by the Technical Committee on Standards for Performance and Installation of Gas Burning Appliances and Related Accessories on October 2, 2013; and subsequently by the American National Standards Institute on October 18, 2013.

Previous editions of gas-fired illuminating appliance standard, and addenda thereto, approved by the American National Standards Institute or its predecessor organizations are as follows:

Z21.42-1963	Z21.42a-1970
Z21.42-1971	Z21.42a-1973
	Z21.42b-1981
Z21.42-1993	Z21.42a-2004

**Note:** *This 2013 edition of ANSI Z21.42 incorporates changes to the 1993 edition and addenda thereto.*

# CSA/ANSI Z21.42:13

## Gas-fired illuminating appliances

### 1 Scope

#### 1.1

This standard applies to newly produced illuminating appliances constructed entirely of new, unused parts and materials:

- a) for use with natural gas;
- b) for use with manufactured gas;
- c) for use with mixed gas;
- d) for use with liquefied petroleum gases;
- e) for use with butane gas; and
- f) for use with LP gas-air mixtures.

The construction of illuminating appliances for use with the above-mentioned gases is covered under Clause 4, Construction.

The performance of illuminating appliances for use with the above-mentioned gases is covered under Clause 5, Performance.

#### 1.2

This standard also covers gas-fired illuminating appliances for either outdoor or indoor installation, or both, for attachment to fixed gas piping systems.

#### 1.3

Appliances found suitable for indoor use under this standard are satisfactory for use in mobile homes or travel trailers when properly installed.

#### 1.4

This standard is not intended to cover open-flame illuminating appliances having an input rating in excess of 5,000 Btu per hour (1 465 W) per burner.

#### 1.5

All references to psi throughout this standard are to be considered gage pressures unless otherwise specified.

#### 1.6

Clause 2, Reference publications, contains a list of standards specifically referenced in this standard and sources from which they may be obtained.