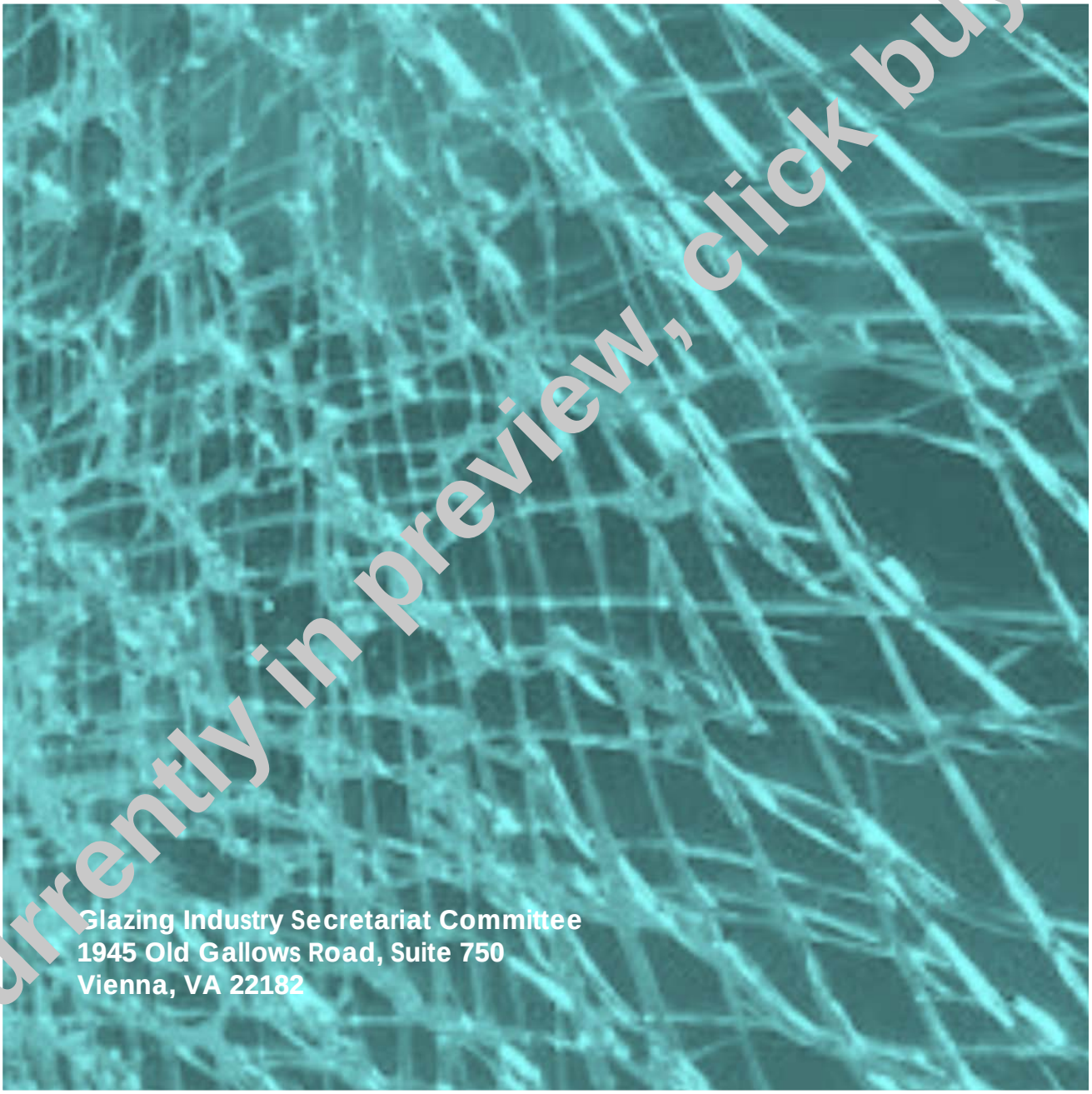
ANSI Z97.1-2015 (R2020)

American National Standard

For safety glazing materials used in buildings – safety performance specifications and methods of test



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ANSI Z97.1 – 2015(R2020)
Reapproval of ANSI Z97.1-2015

American National Standard

for Safety Glazing Materials Used in Buildings -
Safety Performance Specifications and Methods of Test

Secretariat

Glazing Industry Secretariat Committee

Approved by Accredited Standards Committee (ASC) Z97
August 2020

American National Standards Institute, Inc.

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FORWARD

(This forward is not part of ANSI Z97.1-2015)

This Standard was developed under procedures accredited as meeting the criteria for American National Standards. The consensus committee that approved the Standard was balanced to ensure that individuals from competent and concerned interests have had an opportunity to participate. It was developed within the approved scope as stated in section 1.1 of the standard.

This Standard is available for public review on a continuing basis. This provides an opportunity for additional public input from industry, academia, regulatory agencies, and the public-at-large. The use of an addenda system will allow revisions made in response to public review or committee actions to be published as required.

This Standard, which is the result of extended and careful consideration of available knowledge and experience on the subject, is intended to provide minimum requirements that are recommended for use, adoption, enforcement by federal, state and local authorities and by model codes. This standard is to be referenced but not incorporated in any statute or any other standard without the prior written permission of the publisher.

This Standard does not recommend where safety glazing should be used or when it is used, what type of glazing material should be used. For this information one should consult other codes, standards and manufacturer's information.

Neither the standards committee nor the secretariat feel that this standard is perfect or in its ultimate form. It is recognized that, although safety-glazing materials are widely used and accepted, new developments are to be expected and revisions of the standards are necessary as the art progresses and further experience is gained.

This standard is a successor standard to the 2015 edition. The 2015 standard succeeded those of the 2009e2, 2009e, 2009, 2004, 1984 (reaffirmed in 1991), 1975, 1972 and 1966 editions.

The 2020 edition is a reapproval of the 2015 edition with no substantive content changes to the standard.

The 2015 edition of ANSI Z97.1 has removed reference to Class C, 12 inch drop height and fire-rated wired glass. No test methods, references or exceptions appear in this document for Class C, 12 inch drop height and fire-rated wired glass. Compliance of all safety glazing products must be rated to either Class A or Class B in accordance with the procedures of this edition.

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2. The standard or portions of a standard intended to be enforced shall be written in mandatory language.
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5. The standard shall not prescribe a proprietary agency for quality control or testing.

For communication with the Committee please refer to the following page.

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The Committee welcomes proposals for revisions to this Standard. Proposals should be as specific as possible: citing the paragraph number(s), the proposed wording and a detailed description of the reasons for the proposal. Pertinent documentation should be included.

Interpretations: On written request, the ASC Z97 Committee will render an interpretation of any requirement of the Standard. The request for interpretation should be clear and unambiguous. The following format is recommended:

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Edition: Cite the edition of the Standard for which the interpretation is being requested.

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Neither the standards committee nor the secretariat act as certification authorities for safety glazing materials as tested in compliance to ANSI Z97.1. This standard provides the method of test and specification of performance characteristics to deem a product compliant. Products can be self-certified by the manufacturer or certified as compliant by an independent party as allowed by the authority having jurisdiction.

In developing this safety performance specification and test method and submitting it to ANSI for approval and publication, neither the ASC Z97, its members, nor its Secretariat is undertaking to render professional or other services for or on behalf of any person or entity. Nor are they undertaking to perform any duty owed by any person or entity to someone else. Those using this document should rely upon their own independent judgment or, as appropriate, seek the advice of competent professionals in determining the exercise of reasonable care in any given circumstances. Neither the ASC Z97, its members, nor its Secretariat has any power, nor do they undertake, to police or enforce compliance with the contents of this document. Nor do they list, certify, test, or inspect products, designs, or installations for compliance with this document. Any certification or other statement of

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This Standard was processed and approved for submittal to ANSI by the Accredited Standards Committee Z97. Committee approval of the Standard does not necessarily imply that all Committee members voted for its approval. At the time the ASC Z97 approved the 2020 edition of this Standard, the ASC Z97 had the following members:

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As the 2020 edition has no content changes, listing of the members involved in the development of the 2015 edition is also included. At the time the ASC Z97 approved the 2015 edition of this Standard, the ASC Z97 had the following members:

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1 Scope, Purpose, and Limitations

1.1 Scope

This standard establishes the specifications and methods of test for the safety properties of safety glazing materials (glazing materials designed to promote safety and reduce the likelihood of cutting and piercing injuries when the glazing materials are broken by human contact) as used for all building and architectural purposes.

1.2 Purpose

The purpose of this standard is to prescribe the minimum safety performance characteristics of safety glazing materials. This standard affords a basis for; (1) safety standards for adoption in regulations by federal, state, and local regulatory bodies; and (2) for use by building code officials, architects, designers, specifiers and others as a reference standard. Approval of a material under this standard constitutes acceptance of its safety characteristics and the retention of those characteristics. It is not to be construed as appraisal of its durability or appearance as a glazing material.

1.3 Limitations

1.3.1 Conformance of a material to this standard demonstrates minimum acceptable safety characteristics of the material in use

1.3.2 Conformance of a material to this standard is not to be construed as an appraisal of its strength, durability or appearance as a glazing material, nor does this standard specify situations in which safety-glazing materials should be used.

1.3.3 This standard does not address the methods used for the installation of safety glazing materials.

1.3.4 A condition of conformance of a material to this standard is its uniform production so that it will consistently exhibit these safety characteristics.

1.3.5 Monolithic annealed glass, monolithic heat strengthened glass, monolithic chemically strengthened glass, monolithic wired glass (not fire rated) and monolithic fire rated wired glass are not considered safety glazing materials under this standard.