

American National Standard

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

Standard ANSI Z97.1-2009[€]



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New York, New York 10036

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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
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ANSI Z97.1-2009^ε – Modification to section 5.1.2.1.2 (1), (2), (3) and (4) to clarify interpretation of allowable changes after weathering.

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FORWARD

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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. It is recommended that this standard be referenced but not incorporated in any statute.

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.

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

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 While this Standard relates to the minimum safety performance property test criteria for safety glazing materials, the lowest classification level herein per section [5.1.2](#) has NOT been accepted by all jurisdictions (e.g. CPSC 16 CFR 1201, building codes, etc...) as "safe performance" for unrestricted human impact accident modes. Therefore Class C herein applies to glazing material acceptable by the authority having jurisdiction that either:

- (1) has restricted human impact accident modes in application; or that**
- (2) has a combination of minimal impact characteristics with a fire safety function other than energetic human impact alone.**