American National Standard

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

Standard
ANSI Z97.1-2009®

25 West 43rd Street,
New York, New York 10036
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
November 2009

American National Standards Institute, Inc.

ANSI Z97.1-2009e – 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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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.