



Designation: F2813 – 18 (Reapproved 2023)

Standard Specification for Glass Used as a Horizontal Surface in Desks and Tables¹

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INTRODUCTION

This specification addresses serious human injury and fatality incidents involving breakage of glass used in unenclosed horizontal surfaces in desks and tables. This specification is intended to minimize the likelihood of serious cutting and piercing injuries that may occur due to the breakage of glass used as a horizontal surface in desks and dining, coffee, end, display, mobile, outdoor, and other types of tables.

1. Scope

1.1 This specification covers performance requirements of glass used as an unenclosed horizontal surface under 44 in. (1118 mm) in height in a desk or table.

1.2 *Units*—The values stated in inch pound units are to be regarded as the standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 *The following safety hazards caveat pertains only to the test methods referenced in this specification: This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

C162 Terminology of Glass and Glass Products

¹ This specification is under the jurisdiction of ASTM Committee F15 on Consumer Products and is the direct responsibility of Subcommittee F15.42 on Furniture Safety.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

2.2 *ANSI Standards:*³

ANSI Z97.1-2015 Safety Glazing Materials Used in Buildings—Safety Performance Specifications and Methods of Test

ANSI Z535.4-2011 Product Safety Signs and Labels

3. Terminology

3.1 *Definitions*—For definitions of general terms related to glass and glass products used in this specification, refer to Terminology C162.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *fully supported*—the condition in which the lower surface of a glass plate is supported by a structure (1) that is capable of withstanding a 250-lb static load applied to a 12-in. diameter disk in any location for 1 h; (2) through which a 3-in. diameter sphere would not pass and; (3) with no overhanging glass surface(s).

3.2.2 *unenclosed*—open on at least one side to the extent that a three inch diameter sphere would pass through the opening.

4. General Requirements

4.1 Glass shall be laminated glass or tempered glass that complies with the Test Specifications of ANSI Z97.1–2015 as applicable per Section 4, Table 1.

4.1.1 Glass equal to or greater in area than 9 ft² (0.84 m²) shall comply with Class A performance.

4.1.2 Glass less than 9 ft² (0.84 m²) shall comply with a minimum of Class B performance.

4.2 The use of monolithic annealed, monolithic chemically strengthened or monolithic wired glass shall not be permitted.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.