



Standard Specification for Flat Glass¹

This standard is issued under the fixed designation C1036; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope

1.1 This specification covers the requirements for annealed, monolithic flat soda-lime glass supplied as cut sizes or stock sheets.

1.2 This specification is applicable for laboratory and field evaluation only to the extent that such evaluation can be carried out in accordance with the test method(s) prescribed herein.

1.3 This specification covers the quality requirements of flat, transparent, clear, and tinted glass. This glass is intended to be used primarily for architectural glazing products including: coated glass, insulating glass units, laminated glass, mirrors, spandrel glass, or similar uses.

NOTE 1—Reflective distortion is not addressed in this specification.

1.4 This specification covers the quality requirements of patterned or wired glasses intended to be used primarily for decorative and general glazing applications.

1.5 The values given in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.6 *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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards*:²

C162 Terminology of Glass and Glass Products

2.2 *NFRC Standard*:³

NFRC 300 Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems

¹ This specification is under the jurisdiction of ASTM Committee C14 on Glass and Glass Products and is the direct responsibility of Subcommittee C14.08 on Flat Glass.

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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.

³ National Fenestration Rating Council, 84884 Georgia Ave., Suite 320, Silver Spring, MD 20910.

3. Terminology

3.1 *Definitions*—For additional definitions of terms, refer to Terminology **C162**.

3.2 *Definitions of Terms Specific to This Standard*:

3.2.1 *associated distortion, n*—alteration of viewed images caused by variations in glass flatness or inhomogeneous portions within the glass.

3.2.2 *bevel, n*—angled surface at the edge of a lite of glass.

3.2.3 *blemish, n*—imperfection in the body or on the surface of the glass; for the purpose of this specification, blemishes are divided into two categories:

3.2.3.1 *linear blemish, n*—scratches, rubs, digs, and other similar imperfections, which may be straight or curved in nature. If curved, the length of such a blemish is to be measured from end to end along the curve.

3.2.3.2 *point blemish, n*—crush, knots, dirt, stones, gaseous inclusions, and other similar imperfections.

3.2.4 *bow, n*—a condition in which a lite of flat glass departs from a true plane.

3.2.5 *chip depth, n*—measured distance of a chip from the face of the glass into the thickness.

3.2.6 *chip length, n*—maximum distance parallel to the edge of the glass from one edge of a chip to the other.

3.2.7 *chip width, n*—maximum perpendicular distance from the edge of the glass to the inner edge of the chip.

3.2.8 *clear glass, n*—glass formulated to have transmittance in the visible spectrum greater than 82 % (reference to NFRC 300 measurement method) at a standard thickness of 6 mm (¼ in.) with lack of color as compared to tinted glass of the same thickness.

3.2.9 *crush, n*—pitted condition with a dull appearance.

3.2.10 *cut size, n*—glass ordered cut to its final intended size.

3.2.11 *dig, n*—a deep scratch in the glass surface.

3.2.12 *dirt, n*—small particle of foreign matter embedded in the surface of flat glass.

3.2.13 *fire crack, n*—small, sometimes microscopic fissure in the edge of wired or patterned glass.