



Designation: C1349 – 17

Standard Specification for Architectural Flat Glass Clad Polycarbonate¹

This standard is issued under the fixed designation C1349; 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.

1. Scope*

1.1 This specification covers the quality requirements for cut sizes of glass clad polycarbonate (GCP) for use in buildings as security, detention, hurricane/cyclic wind-resistant, blast and ballistic-resistant glazing applications.

1.2 Optical distortion and the evaluation thereof are not currently within the scope of the standard. Mockups are recommended as a method to evaluate glass. (See [Appendix X3](#).)

1.3 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.4 *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.*

1.5 *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 Reference to these documents shall be the latest revision unless otherwise specified by the authority applying this specification.

2.2 *ASTM Standards:*²

C162 [Terminology of Glass and Glass Products](#)

[C1036 Specification for Flat Glass](#)

[C1048 Specification for Heat-Strengthened and Fully Tempered Flat Glass](#)

[C1172 Specification for Laminated Architectural Flat Glass](#)

[C1376 Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass](#)

[C1422 Specification for Chemically Strengthened Flat Glass](#)

[C1503 Specification for Silvered Flat Glass Mirror](#)

[D256 Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics](#)

[D543 Practices for Evaluating the Resistance of Plastics to Chemical Reagents](#)

[D635 Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position](#)

[D638 Test Method for Tensile Properties of Plastics](#)

[D648 Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position](#)

[D790 Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials](#)

[D792 Test Methods for Density and Specific Gravity \(Relative Density\) of Plastics by Displacement](#)

[D1003 Test Method for Haze and Luminous Transmittance of Transparent Plastics](#)

[D1005 Test Method for Measurement of Dry-Film Thickness of Organic Coatings Using Micrometers](#)

[D1044 Test Method for Resistance of Transparent Plastics to Surface Abrasion](#)

[D3763 Test Method for High Speed Puncture Properties of Plastics Using Load and Displacement Sensors](#)

[E308 Practice for Computing the Colors of Objects by Using the CIE System](#)

[E1886 Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile\(s\) and Exposed to Cyclic Pressure Differentials](#)

[E1996 Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes](#)

[F1233 Test Method for Security Glazing Materials And Systems](#)

[F1642 Test Method for Glazing and Glazing Systems Subject to Airblast Loadings](#)

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.

*A Summary of Changes section appears at the end of this standard