



**Laminating Division**

**GANALD 101-08**

## **Standard Specification for Ball Drop Impact Resistance of Laminated Architectural Flat Glazing<sup>1</sup>**

### **1. Scope**

1.1 This specification covers the destructive ball drop testing of laminated flat glass products intended for use in architectural glazing applications.

1.2 This specification is intended for use as an in-plant quality control test to evaluate the impact performance of laminated flat glass when a 2270 g, 83 mm diameter (5 lb., 3.25 in. diameter) smooth solid steel ball is dropped from a specified height.

1.3 This specification does not yield data that is a substitute for safety glazing test requirements of ANSI Z97.1 or CPSC 16 CFR 1201. Qualification under this specification provides a basis for judgment of the ability of specimens to withstand the appropriate shot-bag impact. This specification provides a mechanism to allow fabricators a less cumbersome and lower cost method for the evaluation of impact performance that may be performed on a frequent basis while reducing the amount of waste materials generated from traditional impact tests.

1.4 This specification is applicable to symmetrical and asymmetrical annealed, heat-strengthened, chemically strengthened, and fully tempered laminated architectural flat glass including but not limited to: float, patterned, sheet, sand-blasted, grooved and fritted.

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

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<sup>1</sup> This test method was developed by the Glass Association of North America (GANA) Laminating Division – Ball Drop Test Method Task Group and approved by the Laminating Division – Technical Committee and GANA Board of Directors. This is the original version of the document as approved and published in July 2008.