



safety glazing certification council  
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## **FAQ: SGCC's Plant Quality Assurance Requirements** (November 4, 2019)

These requirements were adopted to improve the overall quality and reliability of safety glazing products in the program. These requirements are in addition to the ANSI, CPSC and CAN/CGSB 12.1 compliance testing required by the SGCC® certification program. The intent is to enhance the quality of products produced in the interim production periods between test cycles. Although a quality assurance program is a fundamental element of good fabrication practices, only successful testing to ANSI Z97.1, 16 CFR 1201 or CAN/CGSB 12.1 is valid proof of compliance with these standards.

**Q** "If we were to go to a 14x14 sample size for ball drop testing, can we just gross up the size of the biggest piece and the amount of falloff to reflect the bigger size? "

**A** NO – detached particles are not a function of sample size but rather a hard parameter. For example the detached particle criteria in Z97, which tests 34X76 is the same.

**Q** "Does testing 3 Ply (G/L/G/L/G) work with this standard?"

**A** YES - users may select a higher drop height for a more severe test if class A drop height does not generate results like a G/L/G sample

**Q** We are unable to produce 12 x 12 samples and must cut down from larger samples. Can we test with larger samples using these standards?

**A** NO – ASTM F3007 section 8.1 states "Test specimen size is 305 ± 10 mm by 305 ± 10 mm." Correlation to ANSI Z97.1 was made using 12 x 12 samples, testing any other size sample would generate results which would not correlate to the ANSI standard.



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Q Since we cannot cut tempered glass can all our test samples be made from annealed glass?

A YES - Annealed would be “worst case” and so actually better as a QA test. Also testing is more severe the smaller the sample. Therefore testing 12 X 12 annealed would be technically justifiable as worst case.

Q Does the opening described in 6.2 of F3007 need to remain same size for all samples tested?

A YES – “While allowing a 260 mm x 260 mm +/- 6 mm square for the ball to drop onto”

Q Can a 12 x 12 sample overhang the edges on the frame?

A YES- 6.2 “capable of supporting a laminate around the edges”

Q “In one section of the instructions it says to test 3 samples from each glass type, is that something we have to do?”

A YES- Section 6.2 & 6.3 (F3006)

7.4.2 At least three specimens from the same lot must be tested and exhibit passing retention characteristics.



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Q Are we required to test an additional sample if 3 samples pass?

A NO - Please note an additional 4<sup>th</sup> sample can be tested, 3 of the 4 must pass to pass the test

Q Am I required to clamp samples when testing?

A NO - Only clamp a sample to prevent pull-through or sample displacement from impact frame, which will result in a non-test. Over clamping a sample may result in more a severe test which does not correlate to ANSI Z97.1 2015.

Q Is the ASTM F3006 test method for laminators/interlayer suppliers or fabricators?

A As part of SGCC's revised QA requirements, Fabricators are required to conduct testing of regular production between test cycles. For laminated glass this testing can be done inhouse or can be sent out to your interlayer supplier for testing (if they offer this). As a fabricator you must ensure that you maintain traceability to specific production runs and testing result records.

Q Is the ANSI Z26.1-2019 *Standard for Safety Glazing Materials for Glazing Motor Vehicles and Motor Vehicle Equipment Operating on Land Highways - Safety Standard* test method be used to satisfy the SGCC QA production test requirements for tempered glass?

A After further review of the 2019 ANSI Z26 standard, Section 7.6 Fragmentation Test 6 references Appendix C and 7.6.4.1.1 reference point of impact at the 'geometric center'. The interpretation of results criteria in ANSI Z26 is more sever. Therefore, SGCC will consider ANSI Z26.1-2019 Section 7.6 Fragmentation, Test 6 as "equal to or more sever" to ANSI Z97.1-2015 centerpunch test and acceptable as equivalent for SGCC QA testing.