

	Document Title: <h2 style="text-align: center;">Getting Safety Glazing Certified Checklist</h2>	Doc No:	FRM B3-22		
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Required By:		PRO B3-07			

A. Getting Started:

This Getting Safety Glazing (SfG) Certified Checklist serves as a step-by-step guide for program participants to begin the process for Safety Glazing certification. For transfer of certification from another agency, skip steps 5 - 7 listed below. Contact Keystone Certifications for questions regarding this checklist.

- ☐ 1. Request a License Agreement package for Safety Glazing (SfG) Certification Program participation via phone or complete the webform [here](#).
 - License Agreement Package includes: License Agreement, Licensee Profile, Program Policy and Fee Schedule.
- ☐ 2. Return completed documents to Keystone (License Agreement and Profile forms) with the initial fees
 - See Fee Schedule FRM B-08 and section E below.
- ☐ 3. Access the [Keystone Client Portal](#) for all program specific documentation.
 - Available documents include: The co-executed License Agreement, the program specific Quality Manual Template and Application forms.
- ☐ 4. Provide Licensee documented QMS (Quality Manual) to Keystone for review and approval.
 - Use Keystone Quality Manual template or provide your existing Quality Manual.
- ☐ 5. Complete the Application for Safety Glazing Certification.
 - Keystone will send Lab Transmittal Form and Test Specimen labels.
- ☐ 6. Fabricate test specimens.
 - Scan QR code on specimen label and select "Fabrication Complete."
- ☐ 7. Ship test specimens to the lab.
 - Regardless of prototype or re-qualification (of certified Safety Glazing (SfG)), specimens are required to be identified with a KCI provided specimen label with QR code for tracking. For re-qualification of certified Safety Glazing (SfG), specimens shall also require etched or sandblasted markings identical to production units in accordance with Keystone Program Policy requirements.
 - Scan QR code on specimen label and select "Shipped to Laboratory."
- ☐ 8. Keystone receives test report(s) from the laboratory or from the client (in the case of transfer of certification)
 - A qualifying safety glazing test report may be transferred, provided that the date of the test report is not more than five (5) months prior to the current date.

B. Test Specimens for Safety Glazing:

Review the qualification rules outlined below for Safety Glazing (SfG) product type requirements. Evaluate which Safety Glazing (SfG) properties require certification, then determine the appropriate test specimens needed to support qualification.

Safety Glazing Product Test	Unlimited Specimen Size	Limited Specimen Size ¹	Number of Samples
Impact	34" x 76"	16" x 30" (minimum size)	4
¹ Testing conducted on limited specimen sizes will restrict the maximum certified dimensions of the safety glazing product. A safety glazing product will only be certified for use in sizes that do not exceed either the width or height of the tested specimen.			
Additional Specimens for Laminated Safety Glazing Product Test		Specimen Size	Number of Samples
Thermal ²		12" x 12"	4
Weathering ³		Call for details	6
² Required for laminated products where interlayer is not on KCI approved interlayer list			
³ Per quote			

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C. Safety Glazing Qualification Rules:

1. Each tempered glass thickness must be tested individually.
2. Testing a metallized coated product qualifies both coated and uncoated versions of the same nominal thickness.
3. Bent glass must be tested separately from flat glass.
4. Testing a pyrolytic (hard coat) product qualifies sputtered (soft coat) products, and vice versa.
5. Different patterns must be tested individually.
6. Testing a deep-patterned glass covers medium and shallow patterns of the same nominal thickness.
7. Testing a medium-patterned glass also qualifies shallow patterns at the same thickness.
8. For ANSI Z97.1, testing a single tint or color of rigid plastic glazing covers all other tints, colors, flat, bent, and formed configurations of the same material type.
9. Testing to ANSI Class A drop height automatically qualifies the product for Class B.
10. Testing the thinnest interlayer of a specific type qualifies all thicker interlayers for that product class.
11. Testing two laminated glass constructions of different nominal thicknesses qualifies all intermediate nominal thicknesses within that range.
12. Testing one brand within a generic interlayer category allows substitution with other brands in the same category.
13. Testing a laminated glass with a nominal overall thickness of 16 mm or greater (using two 8 mm glass lites) qualifies thicker glass configurations in the same construction.
14. Testing laminated glass with annealed (AN) glass qualifies constructions using heat-strengthened (HS), fully tempered (FT), and chemically strengthened (CS) glass.
15. Testing laminated glass with heat-strengthened (HS) glass qualifies HS and FT only.
16. Testing laminated glass with fully tempered (FT) glass qualifies FT only.
17. Testing laminated glass with chemically strengthened (CS) glass qualifies CS only.
18. Tempered VIGs, laminated VIGs, and tempered-laminated VIGs must each be tested separately.
19. A qualifying safety glazing test report may be transferred, provided that the date of the test report is not more than five (5) months prior to the current date.

D. Testing Laboratory Selection:

Safety glazing manufacturers are required to select a laboratory that is either listed on Keystone's Recognized Laboratories list (<https://www.keystonecerts.com/lists/reclabs>) or accredited to ISO/IEC 17025 by an accrediting body that is a signatory to the ILAC Mutual Recognition Arrangement (ILAC-MRA).

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E. Safety Glazing Testing Fees^{1,2,3,4,5,6,7}

SfG Product Code ⁷	Test Standards ¹	ATI/Intertek	Blackwater Technical Services, Inc.	Bowser-Morner, Inc.	Construction Consulting Laboratory West Inc.	Element Materials Technology	ift Rosenheim GmbH	Molimo, LLC	PRI - Construction Materials Technologies LLC	QAI Laboratories, Inc.
		All US & Canada Locations	West Palm Beach, FL	Dayton, OH	Ontario, CA	Des Moines, IA	Rosenheim, Germany	All US Locations	Tampa, FL	Medley, FL
LSG	US & Canada	\$507.00	Per Quote	\$428.00	Per Quote	Per Quote	Per Quote	\$473.00	\$394.00	\$450.00
LSG	US	\$507.00	Per Quote	\$428.00	Per Quote	Per Quote	Per Quote	\$473.00	\$394.00	\$450.00
OCG	US & Canada	\$450.00	Per Quote	NA	Per Quote	Per Quote	Per Quote	NA	NA	\$422.00
OCG	US	\$450.00	Per Quote	NA	Per Quote	Per Quote	Per Quote	NA	NA	\$422.00
SPS	ANSI Z97.1 ONLY	NA	Per Quote	NA	Per Quote	Per Quote	Per Quote	NA	\$900.00	NA
TBG	US & Canada	\$552.00	Per Quote	NA	Per Quote	Per Quote	Per Quote	NA	\$563.00	\$507.00
TBG	US	\$552.00	Per Quote	NA	Per Quote	Per Quote	Per Quote	NA	\$563.00	\$507.00
TBP	US	\$552.00	Per Quote	NA	Per Quote	Per Quote	Per Quote	NA	\$563.00	\$507.00
TPG	US & Canada	\$473.00	Per Quote	\$394.00	Per Quote	Per Quote	Per Quote	\$462.00	\$338.00	\$394.00
TPG	US	\$473.00	Per Quote	\$394.00	Per Quote	Per Quote	Per Quote	\$462.00	\$338.00	\$394.00
TTG	US & Canada	\$439.00	Per Quote	\$394.00	Per Quote	Per Quote	Per Quote	\$439.00	\$338.00	\$394.00
TTG	US	\$439.00	Per Quote	\$394.00	Per Quote	Per Quote	Per Quote	\$439.00	\$338.00	\$394.00
VIGL	US	\$630.00	Per Quote	NA	Per Quote	Per Quote	Per Quote	\$591.00	\$563.00	NA
VIGT	US	\$630.00	Per Quote	NA	Per Quote	Per Quote	Per Quote	\$591.00	\$563.00	NA

1. US standards: ANSI Z97.1 and CPSC 16 CFR 1201. Canadian Standard: CGSB 12.1.
2. Keystone coordinates Safety Glazing (SfG) testing in collaboration with the test laboratory designated by the Licensee.
3. Testing fees will be invoiced to the Licensee within 15 business days of receiving the certification application.
4. Fees are based on current laboratory quotes at the time testing is arranged. Keystone is not responsible for any changes in lab pricing. Any increases in test fees imposed by the laboratory will be passed on to the Licensee.
5. Weathering fees will be invoiced based on the quoted rate.
6. All fees are quoted in U.S. Dollars (USD) unless otherwise specified.
7. Product Code Key, see table below

SfG Product Code Key	
CSSG	Chemically Strengthened Safety Glass
LSG	Laminated Safety Glazing
OCG	Organic Coated Glazing
SPS	Safety Plastic Sheet
TBG	Tempered Bent Glass
TBP	Tempered Bent Patterned Glass
TPG	Tempered Patterned Glass
TTG	Tempered Transparent Glass
VIGL	Vacuum Insulating Glass Laminated
VIGT	Vacuum Insulating Glass Tempered
VITL	Vacuum Insulating Glass Tempered Laminated