



safety glazing certification council

P.O. BOX 730

SACKETS HARBOR, N. Y. 13685

PHONE 315-646-2234

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MINUTES OF EIGHTY-EIGHTH MEETING OF THE CERTIFICATION COMMITTEE NOVEMBER 3rd and 4th, 2015 HILTON GARDEN INN CHARLESTON, SC

		Date and Votes Present	
		<u>11/3/15</u>	<u>11/4/15</u>
<u>Members and Alternates Present</u>			
AGC Fab.	Mark Cody	1	1
AGC Industries	Mark Cody	1	1
Cardinal Glass	Bernie Herron	1	1
Consolidated Glass	Shane Merryman	1	1
Guardian Fabrication Inc.	Dave Cooper	1	1
Guardian Industries Corp.	Kevin Olah	1	1
Guardian Industries Corp	Fred Bruce	Present	Present
Intigral	Mark Hutchinson	1	1
Intigral	Ed Hetrick	Present	Present
Nashville Tempered Glass	Richard Paschel	1	1
Oldcastle Building Envelope	Rick Wright	1	1
<u>Members by Virtue of Being a Director</u>			
Public Interest	Patrick Loughran	1	1
Public Interest	Elaine Rodman	1	1
Public Interest	Peter Weismantle	1	1
		<hr/>	<hr/>
		Votes	
		12	12
<u>Guests</u>			
Eastman	Julia Schimmelpenningh	Present	Present
Kuraray	Valerie Block	Present	Present
<u>Legal Counsel</u>			
Schiff, Hardin LLP	William M. Hannay	Present	Present
<u>Administrative Staff</u>			
AMS, Inc.	John Kent	Present	Present
AMS, Inc.	Brandy Redder	Present	Present
AMS, Inc.	Katrina Stafford	Present	Present
		<hr/>	<hr/>
Persons Present		19	19

- 11.3.15.1 The meeting was called to order at 1:04pm by Chairman Mark Cody and a quorum declared. All present introduced themselves.
- 11.3.15.2 A presentation was provided by Valerie Block of Kuraray entitled "Hurricane and Safety Glazing Requirements". Upon completion, time was allowed for questions. All thanked Ms. Block.
- 11.3.15.3 The minutes of the October 1 and 2, 2014 meeting were reviewed. A motion was made by Rodman/Herron to approve the minutes as submitted.

Vote: Unanimous Affirmative
Motion Passed

11.3.15.4 **Legal Counsel's Report – W. Hannay - (See attachment #1).**

- A. SGCC Anti-Trust Guidelines were distributed to the group and read out loud
- B. SGCC, a corporation incorporated under the Illinois General Not for Profit Corporation Act, is in good legal standing in the State of Illinois with no pending or threatened litigation.

11.3.15.5 **Committee Structure - (See Attachment #2)**

11.3.15.6 **Board of Directors' Report – P. Weismantle**

- A. The Board reviewed SGCC legal matters and received guidance from Bill Hannay
- B. To better capture operating principles the SGCC Board approved a "Corporate Policy Manual".
- C. Board make-up and succession planning was addressed
- D. Financial matters we reviewed and fee's to licensee's will remain unchanged
- E. SGCC will remain a member of GANA without being a member of GANA.
- F. The Board approved proceeding with ANSI/ISO 17065 accreditation with AMS as the Certification Body (CB).
- G. Bill Hannay and John Kent to finalize an appeals and complaints procedure, which is required by ANSI.

11.3.15.7 **Financial Report – E. Rodman - (See Attachment #3)**

11.3.15.8 **Administrator's Report – J. Kent - (See Attachment #4)**

11.3.15.9 **Quick Action Sub-committee Report (See Attachment #5)**

Hearing no objection, the actions of the Quick Action Sub-committee were accepted.

11.3.15.10 **Program Testing Results Review (See Attachment #6)**

The results of program testing were reviewed. Request was made to include % failures for tempered and laminated glass and break out results per thickness and product type.

11.3.15.11 **CPSC**

On May 22, 2015 the Consumer Products Safety Commission (CPSC) published a notice of proposed rulemaking to (in effect) replace the CPSC "test method" with ANSI Z97.1. The

CPSC “specification” would remain as is. SGCC and other organizations had earlier submitted letters of clarification and support of the rule making. Of primary concern was the version of ANSI Z97.1 that would be referenced. Current status of activity was reviewed.

11.3.15.12 **ANSI Z97.1 (See Attachment #7)**

On September 24th, 2015 the release of the 2015 version of ANSI Z97.1 was announced. SGCC’s implementation of the new standard was reviewed. Attachment #7 shows the results of final edits for the implementation of the new version of the standard. A motion was made by Weismantle/Hutchinson to implement as noted in attachment #7.

Vote: Unanimous Affirmative
Motion Passed

11.3.15.13 **Canadian CAN/CGSB 12.1 – (See Attachment #8)**

11.3.15.14 **Testing Laboratory Status -**

- A. **(See Attachment #9)** The status of SGCC Approved Testing Laboratories was reviewed. A motion was made by Rodman/Paschel to approve the list of laboratories for another 2 year period.

Vote: Unanimous Affirmative
Motion Passed

- B. Several situations have occurred where the SGCC participant, due to lab error, was not afforded an opportunity to evaluate a test sample failure. To address concerns, in 2014 revisions to the lab manual guideline G.27 were proposed. However after further consideration and discussion with testing labs, this revision was considered rather onerous. After consideration, a motion was made by Paschel/Herron to revert back to the pre-2014 version G.27 guideline but with the addition of reference to digital photos (see below).

Vote: Unanimous Affirmative
Motion Passed

Instruction G.27

When a test criteria or thickness tolerance failure occurs, the following steps shall be taken to provide the SGCC participant opportunity to evaluate the nature of the failure. For all tempered product failures the ten largest particles from each test specimen that is a possible failure must be kept for a period of (30) thirty days from report date. A digital photo shall also be maintained on file and included with the report. For all laminated or organic coated product failures, digital photos shall be taken of the failure in the frame and representative pieces (minimum 12 X 12 –inch) of the failed sample must be kept for (30) days from report date. When laboratory error occurs, replacement testing shall be at the laboratories expense.

- C. **(See Attachment #10)** Methods of providing lab training were reviewed. The general feel that some form of video or webinar with a test would be most effective. It was

suggested an effective approach is to write script and then match script to video. The following was suggested:

- a. Do New ANSI Z97.1 first
- b. Develop concept and estimated cost
- c. Work with quick action committee to approach board for funding
- d. Suggested to work with Brian Pittman

11.3.15.15 The meeting was adjourned for the day at 4:55pm by Chairman Mark Cody.

11.4.15.1 The meeting was called to order at 8:08am by Chairman Mark Cody and a quorum declared.

11.4.15.2 **Procedural Guide Revisions – (See Attachment #11)**

As ANSI Accreditation was being considered, a number of clarifications were suggested to the SGCC procedural guide as noted in the attachment. After review a motion was made by Paschel/Olah to approve revisions as noted.

Vote: Unanimous Affirmative
Motion Passed

11.4.15.3 **Pre-issued Certification Number Bond**

SGCC has maintained this document as 1) an application of sorts and 2) as a bond or agreement to assure compliance to labeling requirements. In light of pending ANSI requirements and licensee comments Bill Hannay was asked to review the document for a more palatable format.

11.4.15.4 **Fabricator Rep's and Agents**

There appears to be some discrepancy between various SGCC documents if only manufacturer/fabricators can be SGCC licensees. Additionally there has been some ambiguity as to the relationship of some representatives and the ultimate fabrication facility. Bill Hannay was requested to investigate the issue and provide a recommendation. There was a preference that only manufacturer/fabricators can be licensees.

11.4.15.5 **Application of Reference Specifications (See Attachment #12)**

After review, it was determined SGCC has no position or jurisdiction if there is no SGCC label.

11.4.15.6 **Old/New Business**

NONE

11.4.15.7 **Next Meeting**

The next SGCC Certification Committee meeting is tentatively scheduled for October 18-19, 2016 at the Toronto Airport Hilton.

11.4.15.8 The meeting was adjourned by the chair at 10:05 AM.

SGCC ANTITRUST COMPLIANCE GUIDELINES

A. It is the policy of SGCC to comply fully with the antitrust laws applicable to trade association activities.

B. In furtherance of this policy, all SGCC meetings are attended by SGCC legal counsel, and the SGCC's officers, directors, and Administrator periodically consult with SGCC legal counsel.

C. Each participant in SGCC activities has a responsibility to avoid any improper conduct from an antitrust standpoint. The following guidelines will assist in meeting this responsibility.

1. SGCC meetings are held solely to manage and operate SGCC and its certification program, in accordance with SGCC's corporate purposes, the SGCC Bylaws, and the Certified Products Directory.

2. No participant in SGCC activities, including the certification program and standards development efforts (such as ANSI Z97.1), should attempt to misuse his or her position within SGCC to gain an unfair competitive advantage on behalf of his or her company.

3. To avoid antitrust problems (either civil or criminal), the following legally-sensitive subjects should not be discussed by competitors at or during SGCC meetings:

- a. Future marketing plans of specific competitors;

- b. Any complaints or business plans relating to specific customers, suppliers, geographic markets or products;

- c. Agreements between competitors to allocate markets, customers or products;

- d. Agreements between competitors to refuse to deal with a supplier or a customer;

- e. Purchasing plans or bidding plans (except privately between two parties with a vertical commercial relationship such as supplier and customer); or

- f. Current or future price information and pricing plans, bidding plans, refund or rebate plans, discount plans, credit plans, specific product costs, profit margin information or terms of sale.

Any question regarding the legality of a discussion topic or business practice should be brought to the attention of SGCC legal counsel* or your company's individual legal counsel.

April 2010

* William M. Hannay, Schiff Hardin LLP, 7200 Sears Tower, Chicago, IL 60606; (312) 258-5617; (312) 258-5700 (fax); e-mail: whannay@schiffhardin.com.



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SGCC Committee Structure (as of 10/4/2015)

SGCC Board of Directors		President: Peter Weismantle
Scope: The overall affairs of the Council shall be managed by its Board of Directors.		
Members		
Public Interest		Business Community
Peter Weismantle – President		Richard Paschel – Vice President
June Willcott - Secretary		Carl Carmen
Elaine Rodman - Treasurer		Rick Wright
William Nugent		Bernie Herron
Patrick Loughran		Mark Cody

Sub Committee: Certification Committee	Chair: Mark Cody
Scope: It shall be the duty of this Committee to formulate, review, administer and apply a certification program for the Council.	
Members	
All Licensees and Board Members	

Sub Committee: Quick Action	Chair: Mark Cody
Scope: Between meetings resolution of any issue, appeal or request for review that can not be dealt with by the administrator, or is beyond the guidance provided to the Administrator or for which the Administrator has rendered a decision that is not acceptable by the applicant.	
Members	
SGCC President	Peter Weismantle
Certification Committee Chair	Mark Cody
Public Interest	June Willcott

Sub Committee: Nominating	Chair: Richard Paschel	Public Interest Member: Peter Weismantle
Scope: The Nominating sub committee is a subcommittee of the Board and appointed by the President to research and present a slate of SGCC Board nominees and officers for the annual SGCC participants meeting.		

Sub Committee: Time, Place and Marketing	Chair: Elaine Rodman
Scope: Canvas for scheduled meetings of glass and associated industry meetings; develop a list of possible locations and specific dates for future meetings for submittal to participants for vote. Maintain SGCC marketing plan.	
Members	
Rick Wright	

Sub Committee: Laboratory and QA Inspection		Chair: Kevin Olah
Scope: Address and resolve concerns related to the interrelationship between the laboratories, the administrator, and SGCC participants. Development and maintenance of the laboratory testing manual and program quality assurance requirements.		
Members		
Bernie Herron	Rick Wright	
Mark Cody		

Annual Financial Comparison Summary
2010 Through 2015 (June 30)

Revenues	2010	2011	2012	2013	2014	2015
Administrative	\$ 526,949	\$ 537,804	\$ 573,698	\$ 526,839	\$ 632,317	\$ 698,825
Testing	\$ 673,050	\$ 849,675	\$ 989,037	\$ 1,003,728	\$ 952,625	\$ 1,186,707
Business Account Income	\$ 30,165	\$ -	\$ 15,905	\$ 32,297	\$ 35,235	\$ 37,361
Impactor Bags	\$ 1,980	\$ 1,395	\$ 75	\$ 600	\$ 525	\$ 1,725
Test Labs Under Five	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Income	\$ 15,440	\$ 14,685	\$ 5,490	\$ 8,740	\$ 3,527	\$ 10,444
Total Revenue	\$ 1,247,584	\$ 1,403,559	\$ 1,584,205	\$ 1,572,204	\$ 1,624,229	\$ 1,935,062
Test Fee Transfers	\$ -	\$ -	\$ -	\$ 84,280	\$ 46,637	\$ 56,447
Total Revenue (Discretionary)	\$ 47,585	\$ 16,080	\$ 21,470	\$ 125,917	\$ 85,924	\$ 104,252

Expenses	2010	2011	2012	2013	2014	2,015
Administrative	\$ 526,949	\$ 537,804	\$ 573,698	\$ 526,839	\$ 632,317	\$ 698,825
Testing	\$ 673,050	\$ 849,675	\$ 989,037	\$ 919,448	\$ 905,988	\$ 1,130,260
Legal	\$ 25,783	\$ 20,781	\$ 27,541	\$ 21,821	\$ 20,144	\$ 13,546
Accounting	\$ 3,165	\$ 3,100	\$ 3,100	\$ 3,100	\$ 3,100	\$ 3,100
Board Meetings	\$ 12,434	\$ 12,310	\$ 12,389	\$ 10,591	\$ 15,626	\$ 15,522
<i>Meetings (Hotel expenses etc.)</i>	\$ 7,846	\$ 6,045	\$ 8,054	\$ 5,030	\$ 10,415	\$ 8,449
<i>Meetings (Board Mbr Exp.)</i>	\$ 3,903	\$ 4,805	\$ 4,335	\$ 3,864	\$ 4,374	\$ 4,806
<i>Meetings (JGK Assoc. Mtg. Exp.)</i>	\$ 685	\$ 1,460	\$ -	\$ 1,697	\$ 837	\$ 2,267
Miscellaneous	* \$ 3,913	* \$ 3,420	\$ 167	\$ -	\$ -	* \$ 3,500
Membership Fees	\$ -	\$ -	\$ -	\$ 2,500	\$ 2,500	\$ 3,667
Insurance	\$ 4,640	\$ 4,458	\$ 4,907	\$ 4,125	\$ 4,994	\$ 5,022
Web Page	\$ 1,250	\$ 5,512	\$ -	\$ -	\$ 5,000	\$ 5,000
Marketing	\$ 149	\$ 1,004	\$ -	\$ -	\$ 616	\$ -
Bank Charges	\$ 2,249	\$ 1,584	\$ 1,711	\$ 1,043	\$ 2,234	\$ 2,415
Total Expenses	\$ 1,253,582	\$ 1,439,648	\$ 1,612,550	\$ 1,489,467	\$ 1,592,519	\$ 1,880,857
Change in Net Assets	\$ (5,998)	\$ (36,089)	\$ (28,345)	\$ 82,737	\$ 31,710	\$ 54,205
Net Assets	\$ 321,881	\$ 285,792	\$ 257,447	\$ 340,184	\$ 371,894	\$ 426,099
Total Expenses (Discretionary)	\$ 53,583	\$ 52,169	\$ 49,815	\$ 43,180	\$ 54,214	\$ 51,772

*Impactor Bag Purchase

Investment	Initial Purchase Value	Current Interest Rate	Date of Maturity	Current Value 9/10/15	Comments
Key/Union Bank N.A.	\$ 230,000	Variable	5/9/2018	\$ 235,497	5 year structured CD/3.05
NBT (Formerly Alliance)	\$ 230,000	0.30%	7/1/2016	\$ 231,751	12 month CD
Carthage Savings and Loan	\$ 230,000	0.49%	6/24/2016	\$ 232,338	12 month CD
First National Bank of Dryden	\$ 230,000	0.70%	7/15/2017	\$ 234,883	24 month CD interest added
Community Bank	\$ 220,000	0.25%	1/15/2017	\$ 221,103	24 month CD interest added
Watertown Savings CDARS	\$ 220,000	2.03%	1/15/2017	\$ 220,174	24 month CD

Name of Bank	Bank Balance as of 10/15/15
M&T Bank - Checking	\$ 935
WSB Savings Account	\$ 933

ADMINISTRATIVE REPORT

SGCC Fall Meeting

November 3-4, 2015 Charleston, SC

July 1, 2015 Certified Products Directory (CPD)

<i>Cut-off Date</i>	<i>Copies</i>	<i>Subscription List Mailing</i>
July 1, 2015	2260	2086

Certification ~~Removed~~ Since Publishing July 2015 CPD

Northwest Glass; Billings, MT, all products

Trulite Glass & Aluminum Solutions, Aurora Colorado, #5342 3/16" TTG Composite

New Plant Certifications ~~Added~~ Since Publishing July 2015 CPD

Composite Program

Al Ghussun Bldg. Metallic Const. Factory LLC; Sharjah, UAE

ATI Windows; Riverside, CA

Divimex Es Cristal S.A. de C.v.; Azcapotzalco, Mexico

Shandong Kingtom Glass Co., Ltd.; Qingdao, Shandong China

Wisconsin Shower Door & Supply Corp; Menomonee Falls, WI

Wuhan Aozheng Science and Technology Co., Ltd.; Wuhan, Hubei, China

Zhongshan Dongsheng Litebang Glass Factory; Zhongshan, Guangdong China

COMP+CAN Program

DDG Glass Manufacturing SDN BHD; Masai, Johor

Rizhao Huaye Glass Co., Ltd.; Rizhao, Shandong China

Sunglas Technics Co., Ltd.; Foshan City, Guangdong China

The Glass Guild Ltd.; Calgary, Alberta Canada

New Products Added to Existing Plants Since July 2015 Publishing of CPD

Columbia Commercial Bldg Products; Rockwall, TX

5614 COMP+CAN 1/8" TTG

5615 COMP+CAN 3/8" TTG

5616 COMP+CAN 1/2" TTG

Glas Works, Inc.; Dania Beach, FL

5452 Composite 3/16" TTG

Industrial Tempering Glass, Brooklyn, NY

5564 Composite 3/16" TTG

5565 Composite 1/4" TTG

McGrory Glass; Paulsboro, NJ

5262 Composite (S) 8mm LTG

Phoenicia flat Glass industries; Nazaret, Ilit Israel

5629 Composite (H) 8mm LTG

Ready Glass & Mirror, Inc.; Hialeah, FL

5634 Composite (H) 8-16+ LTG

Simonton Windows; Paris, IL

5295 Composite 1/8" TPG (s)

Tai Sheng (Dong Guan) Glass Co., Ltd; Dongguan China

5487 Composite 3/16" TTG

5488 Composite 3/8" TTG

5604 Composite 1/2" TTG

5488 Composite 3/16" TPG (m)

Trulite Glass & Aluminum Solutions; Orlando, FL

5680 Composite 5/8" TTG

Trulite Glass & Aluminum Solutions; Vaughan, ON

5631 Composite (S) 6mm LTG

5632 Composite (H) 8-16+ LTG

	F10 As of April	2010 As of Oct	2011 As of Oct	2012 As of Oct	2013 As of Sept	2014 As of Sept	2015 As of Sept
No. of Plants	241	245	256	262	275	297	331
% increase in Plants	-4%	+2%	+4%	+2%	+5%	+8%	+12%
Offshore Plants	43	50	50	57	59	68	89
% increase in Offshore Plants	-14%	+16%	+/- 0%	+14%	+4%	+15%	+31%
No. of Licensees	150	152	160	168	178	198	229
Total Certified Products	1531	1573	1651	1726	1789	1895	2079
% increase in Certified Products	-4%	+3%	+5%	+5%	+4%	+6%	+10%
ANSI Only	37	22	18	13	13	14	17
CPSC Only	7	18	18	18	17	5	0
COMPOSITE	1487	1533	1615	1695	1392	1335	1180
Plants COMP+CAN					43	75	110
Products COMP+CAN					367	541	882

Administrative Activity**January 2015****April 2015****July 2015****July 2015**

Mailing of January 2015 Certified Products Directory

Mailing of L15 Invoices

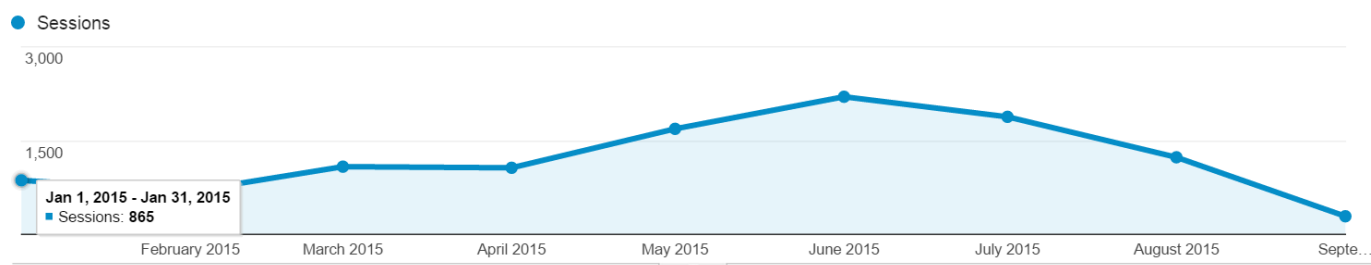
Mailing of July 2015 Certified Products Directory

Mailing of Meeting Notices

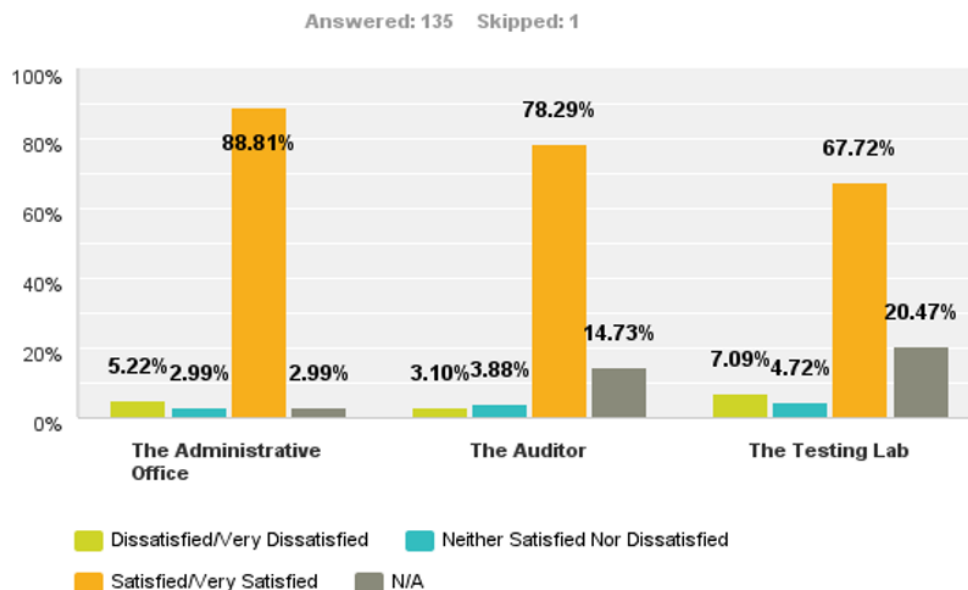
SGCC Website Report

www.sgcc.org

	2013	2014	2015 Year to Date
Total Visits:	3,398	4,855	10,944
Average Visits per Month:	283	404	1,368
Month with Highest Visits (number of visits)	May, 2013 (323)	July, 2014 (584)	June, 2015 (2001)
Top three Visiting Countries (% of total visits):	US China UAE	US (69%) China (9%) Canada (5%)	US (44%) Russia (13%) Non-Specified (7%)
Unique Visitors:		3,546 79% were new users 21% returning visitors	9,380 85% were new visitors 15% returning visitors
Top Three Visited Pages (% of total visits):	Certified Products Search Record of Compliance Testing Certified Plants	Home Page (31%) Certified Plants (15%) Record of Compliance Testing (8%)	Home Page (37%) Cert. Prod. Search (15%) Cert. Plants (6%)
Download of Certified Products Directory:	579 downloads	738 downloads	1962 downloads
	Old Tracking System	<u>New Tracking System</u> (Google Analytics)	

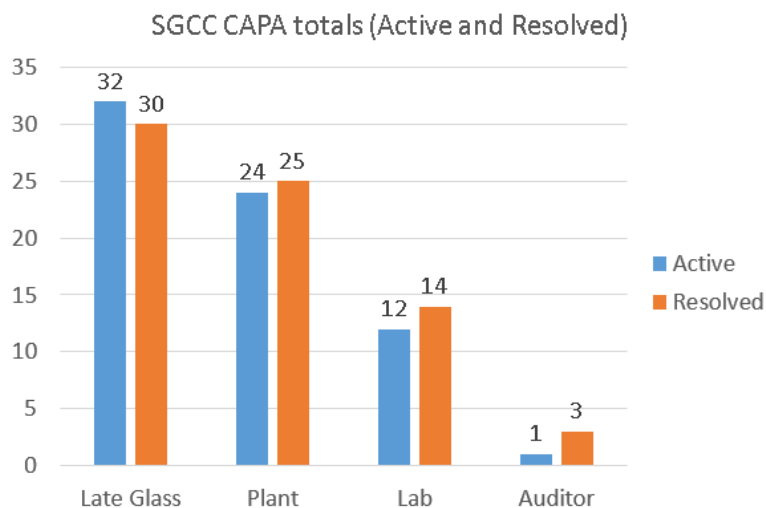


Customer Satisfaction Levels



Data collected using SurveyMonkey.com since October 2014.

SGCC Corrective and Preventive Actions



Late Glass – sample shipments that have not been received by the lab

Plant Items – actions resulting from findings during SGCC plant/product audits

Lab – actions resulting from test reports and laboratory audits

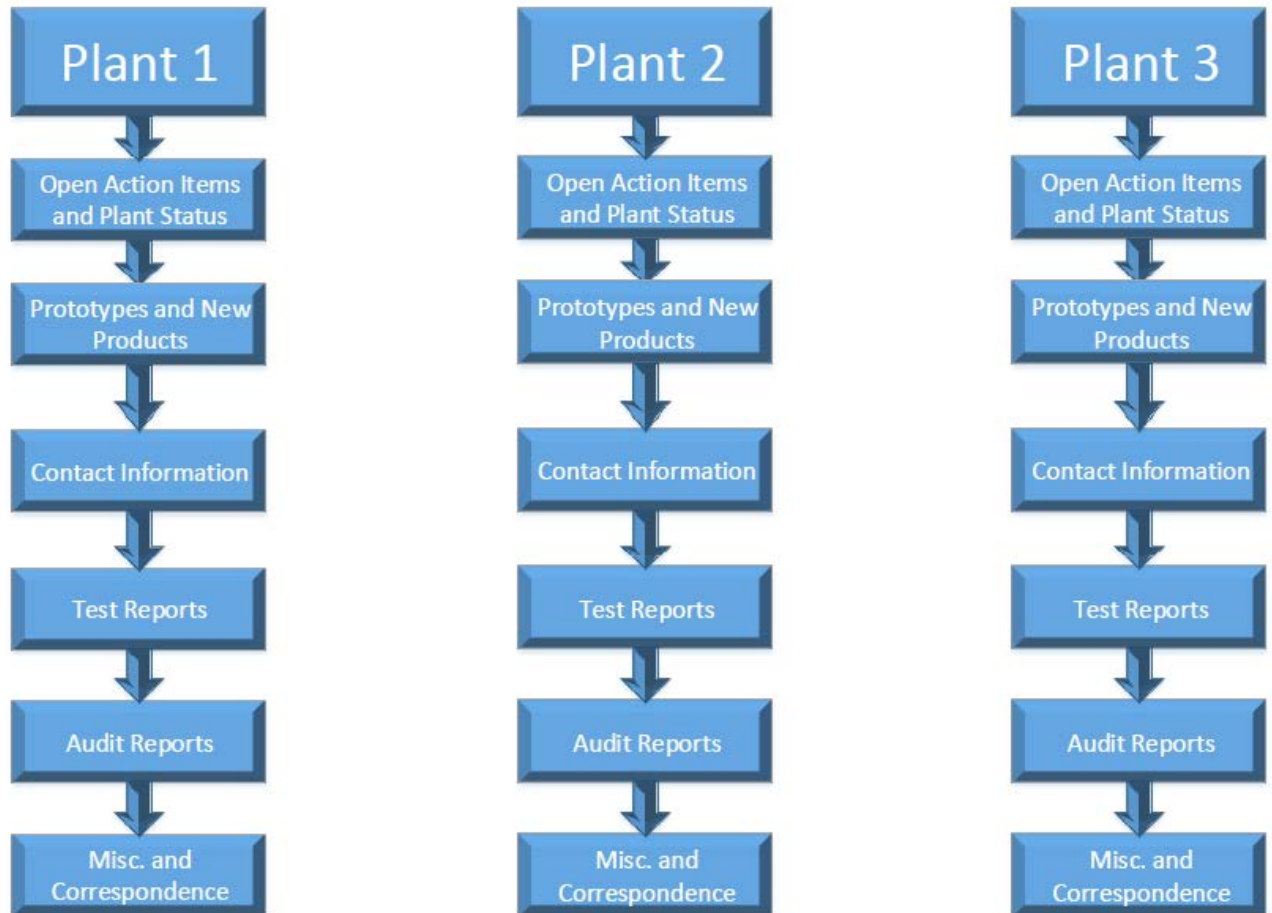
Auditor – actions resulting from review of audit reports and auditor monitoring

Data collected internally by AMS since February 2015

Licensee:

Contact Information

Corporate Location:



Sub Committee: Quick Action		Chair: Mark Cody
Scope: Between meetings resolution of any issue, appeal or request for review that can not be dealt with by the administrator, or is beyond the guidance provided to the Administrator or for which the Administrator has rendered a decision that is not acceptable by the applicant.		
Members		
SGCC President		Peter Weismantle
Certification Committee Chair		Mark Cody
Public Interest		June Willcott

January 28th, 2015

1. **SGCC Lab** – (Intertek Montreal) - We have our first Canadian Lab. I visited them 1/20/2015 and although they have several audit corrective actions, I believe they are very committed and motivated to provide quality service. Additionally, with current activity, an SGCC lab in Canada I believe has value to the SGCC program. I would like to ask for your **approval pending resolution of corrective actions.**

QAC Action - Approve

2. **ANSI/ISO 17065** – You may recall, at our Nashville meeting we agreed to move forward with ANSI ISO 17065 accreditation. June, Peter and I all have a slightly different take on exactly what the direction was at the meeting (AMS or SGCC as the CB). We have had several conversations with Bill Hannay as well since Nashville and have prepared a comparison of cost and effort of each approach. AMS has applied for an ANSI scope expansion for other certification activity we administer and our audit will be later in February. I would like to ask for your **"OK" to delay** further SGCC discussion on this for a few more months. We will have a better idea of the ANSI process then. I would suggest an SGCC Board call in say April.

QAC Action - Approve

3. **SGCC Certification Committee Minutes** – I have the below guideline (Lab Manual G.27) as being approved in the SGCC Certification Committee minutes. Both Mark and I had a ..."did we really do that" moment when we read this. I fear this will put significant burden on the labs and add to test fees. The issue that drove this discussion has happened twice in 2 years. I would like to ask for your **"OK" to hold off** on implementation of this, to better evaluate.

QAC Action - Approve

Program Testing Results

Attachment #6

Year	Total Specimens	Selections (% of total products)				Product Failures (Calendar Year)				Failures					
		Participant %	Inspector %	Total Tempered Products %	Total Laminated Products %	Total Failures		Participant Selected % failure	Inspector Selected % failure	Tempered		Laminated Impact		Laminated Boil	
						Total Failures	Total Failures (%)			total	% failure	total	% failure	total	% failure
2015 to Date	1631	88%	12%	90%	10%	44	2.7%	100%	0%	36	82%	6	14%	2	5%
2014	3485	87%	13%	91%	9%	80	2.3%	89%	11%	44	55%	28	35%	8	10%
2013	3304	92%	8%	90%	10%	89	2.7%	97%	3%	63	71%	21	24%	5	6%
2012	3219	86%	14%	91%	9%	99	3.1%	86%	14%	78	79%	15	15%	6	6%
2011	3146	72%	28%	91%	9%	98	3.1%	78%	22%	82	84%	9	9%	7	7%
2010	2986	64%	36%	93%	7%	72	2.4%	90%	10%	59	82%	10	14%	3	4%
2009	2846	48%	52%	95%	5%	66	2.3%	71%	29%	43	65%	17	26%	6	9%
2008	2743	47%	53%	94%	6%	66	2.4%	53%	47%	51	77%	12	18%	3	5%
2007	2549	47%	53%	92%	8%	71	2.8%	62%	38%	48	68%	20	28%	3	4%
2006	2089	41%	59%	94%	6%	65	3.1%	83%	17%	48	74%	8	12%	9	14%
2005	1729	53%	47%	95%	5%	31	1.8%	65%	35%	25	81%	5	16%	1	3%
2004	1620	42%	58%	N/A	N/A	36	2.2%	67%	33%	N/A	N/A	N/A	N/A	N/A	N/A
2003	1536	24%	76%	N/A	N/A	31	2.0%	55%	45%	N/A	N/A	N/A	N/A	N/A	N/A
2002	1470	43%	57%	N/A	N/A	26	1.8%	81%	19%	N/A	N/A	N/A	N/A	N/A	N/A
2001	1373	55%	45%	N/A	N/A	33	2.4%	76%	24%	N/A	N/A	N/A	N/A	N/A	N/A
2000	1281	72%	28%	N/A	N/A	21	1.6%	33%	67%	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

Failure totals for tempered and laminated glass was not recorded until 2005

N/A = Not Available

Total Specimens (Tempered & Laminated) vs. % Total Product Failure





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PHONE 315-646-2234

E-mail: staff@amscert.com

January 5, 2016

IMPORTANT SGCC INFORMATION **SGCC Implementation of New ANSI Z97.1 "2015"**

The latest version of ANSI Z97.1 (now 2015) was made publicly available as of September 24, 2015. At the fall 2015 SGCC meeting, it was agreed to utilize the new version of ANSI Z97.1 starting in the First of 2016 (F16) certification period. We would recommend obtaining a copy of the new standard for reference if you have not already done so. Copies may be purchased as follows:

Link to Z97 website: <http://www.ansiz97.com> To purchase by phone: (212) 642-4900

Summary of Changes in Standard

(See Final Page)

Effect on Safety Glazing Producers

- The standard year designation will need to be updated on your permanent label once testing to the 2015 version of the standard is completed.
- For laminated and organic coated glass producers, SGCC shall default to boil testing. Should you wish to have your product "bake" tested instead, you will need to notify SGCC.
- Review weathering requirements as applicable.

Effect on SGCC Approved Laboratories

- Acceptance criteria has changed, review, train, and implement for 2015 version testing.
- Prepare for Bake test of laminated and organic coated glass.
- Review weathering requirements (indoor use only) as applicable.

Implementation Schedule

<u>SGCC Certification Period</u>	<u>Test</u>	<u>Labeling</u>
Last Half 2015 (L15)	If testing is not already complete and lab can accommodate, per licensee request, ANSI Z97.1 - 2015 testing shall be allowed.	
First Half 2016 (F16)	2015	2009 (prior to test)
Last Half 2016 (L16)	2015	2015 (see note 2 below)

Changes to SGCC Label

ANSI Z97.1-2015 requires the following label information:

1. Supplier's name or mark
2. "ANSI Z97.1-2015"
3. Test Size (U or L), and Drop Height Class (A, B)
4. Place of fabrication (If more than one plant)

**Typical SGCC Label
(Composite + CAN)****Z97.1-2009**

ABC Glass - Plant A (Optional)
 16 CFR 1201 II
 ANSI Z97.1 - **2009**
 CAN/CGSB 12.1-90
 SGCC 9999 1/4UA

Z97.1-2015

ABC Glass – Plant A (Optional)
 16 CFR 1201 II
 ANSI Z97.1 - **2015**
 CAN/CGSB 12.1-90
 SGCC 9999 1/4UA

Notes:

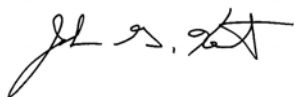
- 1) Testing to the ANSI Z97.1-2009 version of the standard will not be considered equivalent to the 2015 version.
- 2) Labeling of product to ANSI Z97.1-2015 shall not occur until 2015 version testing has passed.
- 3) F16 testing to ANSI Z97.1-2015 shall be on 34 x 76-inch sample for companies wishing an unlimited size designation.
- 4) Products that are certified "Indoor Use Only" will need to retest to the new indoor weathering requirements of the 2015 standard by 1/1/2017.
- 5) SGCC labeling requirements are minimum requirements for SGCC. Other jurisdictions, standards and codes may have additional requirements.
- 6) SGCC Guideline G.5 should be noted:

G.5

The SGCC® item number, when used as part of a permanent label, designates the name of the licensee (participant) and also the location of the manufacturing plant.

Thank you for your attention to this matter. If you have any questions, please feel free to contact us any time and as always, thank you for your support of the SGCC Certification process.

Best regards,



John G. Kent
 SGCC Administrative Manager

“Summary” of Changes to ANSI Z97.1 - 2015

(The following provides an abbreviated review of changes between the 2009 and 2015 version of the standard. This should not be used as a substitute for a full review and understanding of the changes between the 2 versions of the standard.)

1. Revision Cycle
 - a. 2009 – Revision started
 - b. 2014 – Full standard ballot
 - c. 2015 (September) – Standard publically available
 - d. 2016 – Next revision cycle to start
2. Wired Glass (Monolithic) – Applicability removed (Class C, 12-inch drop removed)
3. Thermal Test (Dry Bake) – Test added as an alternate to (wet) boil (16 hours @ 100°C) applicable to laminated and organic coated glass
4. Acceptance Criteria (mode of breakage) – 4 types created
 - a. Type 1 – Fragments contained – Laminated and Organic Coated Glass
 - b. Type 2 – 10 largest particles – Tempered
 - c. Type 3 – Stiffness and hardness – Plastic
 - d. Type 4 – No break – Applicable to all (tempered must also pass center punch test)
5. Type 1 – Fragments contained
 - a. 3-inch sphere with 4-pounds force, and -
 - b. Total detached particles < the equivalent weight of 15.5 in²
 - c. No individual detached particle > the equivalent weight of 6.82 in²
 - d. Exempt detached particles < 1 in²
6. Technical Interpretations – The technical interpretations to the 2009 standard were added dealing with tempered glass center punch area of exclusion and weathering acceptance criteria.
7. Weathering –
 - a. Various clarifying language
 - b. Changes to indoor use only products
 - c. Appendix B – Weathering Table added
8. Marking – No changes other than the year designation



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CAN/CGSB 12.1 Update

- The full committee met in May 2015 and conducted a page by page review of the DRAFT document.
- Wired glass is out ... may be included in the flat glass standard
- All technical issues have been resolved
- The document is being reformatted and is expected to go out for public comment by the end of 2015.
- The current DRAFT is **very** close to ANSI Z97.1-2015.

SGCC Testing Laboratory Status

(Last updated 10/18/2015)

7. Laboratory Agrees that initial approval by the SGCC Certification Committee is contingent upon an initial survey of Laboratory's test facilities by the SGCC. Laboratory agrees to pay the cost of the initial survey and inspection of the testing facilities. In order for a test facility to be considered for initial approval, a letter of interest or intent to use must be provided from 5 certified fabrication facilities. Ongoing laboratory approval is subject to approval by the SGCC Certification Committee and shall be for a period of two (2) years. During this period the laboratories facilities shall be re-surveyed and all issues arising from this survey resolved. A non-refundable fee of \$3000 annually for each facility shall be charged for SGCC Laboratory approval and surveys. This fee shall be waived under the following conditions:

1. During the first 2 calendar years of initial SGCC Lab approval
2. When 5 or more SGCC participating plants have selected the facility as their designated testing laboratory for that year.

Company	Location	Date of Initial Approval	Date of Last Inspection	Approved by SGCC	Accredited to ISO/IEC 17025/Agency	Signed Agmt (date)	No. of Plants
Intertek/ATI	Fresno, CA	11/18/1997	3/3/2014	9/16/2013	IAS TL-264	10/8/2009	37
	Kent, WA	10/29/2009	11/21/2014	9/16/2013	IAS TL-330	10/6/2009	11
	Plano, TX	7/1/2004	10/9/15	9/16/2013	IAS TL-331	10/14/2009	40
	St. Paul, MN	10/6/1992	4/4/2014	9/16/2013	IAS TL-285	10/14/2009	19
	York, PA	6/30/1985	9/3/2015	9/16/2013	IAS TL-144	10/15/2009	51
	Lithia Springs, GA	5/17/2012	10/6/2014	9/16/2013	IAS TL-338	5/17/2012	21
Intertek	Cortland, NY	1981	Tent 11/17/15	9/16/2013	IAS TL-212	10/12/2009	17
Intertek	Montreal QC	2/20/2015	1/20/2015	2/20/2015	SCC – AL-70	1/28/2015	5
Fenestration Testing Laboratories	Medley, FL	10/2/1997	5/8/2014	9/16/2013	A2LA #3308.01	10/1/2009	56
National Certified Testing Laboratories, Inc.	Everett, WA	10/14/1997	11/21/2014	9/16/2013	A2LA #3054.03	10/15/2009	16
	York, PA	5/19/2011	tent 11/19/15	9/16/2013	A2LA #3054.01	5/19/2011	8
Bowser-Morner, Inc.	Dayton, OH	1991	9/24/2015	9/16/2013	A2LA #0071.04	10/1/2009	15
Construction Consulting Laboratory West	Ontario, CA	11/19/1997	8/18/2015	9/16/2013	IAS TL-226	9/29/2009	21
Rhone Engineers, Ltd	Dallas, TX	6/11/1999	7/28/2015	9/16/2013	-	10/1/02009	9
Element Materials Technology	Des Moines, IA	6/11/1999	8/26/2015	9/16/2013	A2LA #1479.02	10/15/2009	9
	Wausau, WI	11/29/2011	10/30/2014	9/16/2013	A2LA #1479.04	10/27/2011	6

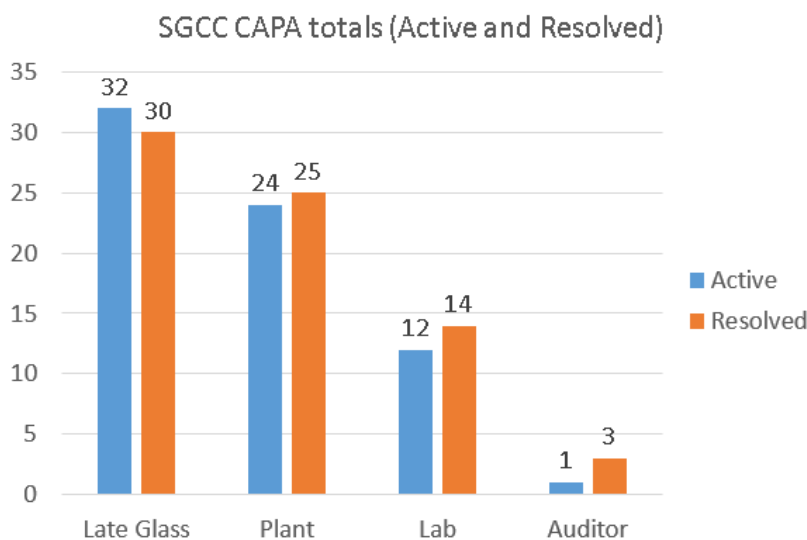


safety glazing certification council

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Lab Training

SGCC Corrective and Preventive Actions



Late Glass – sample shipments that have not been received by the lab

Plant Items – actions resulting from findings during SGCC plant/product audits

Lab – actions resulting from test reports and laboratory audits

Auditor – actions resulting from review of audit reports and auditor monitoring

Data collected internally by AMS since February 2015

As we increase monitoring and measurement of certification activity there appears to be a need for increased lab personnel training. While a face to face event may be most effective ... it does not last (one time event) and personnel change (you can't send the new guy next year). A training video may be as effective, and more lasting. Topics to be covered:

Test procedure	Label measurements	Guideline G.4 (30 Days)
Certification procedures	Label requirements	SRF's and sample receipt
New Z97 requirements	Storage and handling	Shadowgraphs
Thickness measurements	Action upon failure	Updated lab manual
Thickness requirements	Retest procedure	Reporting

Agenda
October 24th, 2001
Las Vegas, NV
SGCC Laboratory Workshop

- 1. Agenda and Introduction**
- 2. Purpose**
- 3. Participation Levels**
- 4. SGCC Organization & Structure**
- 5. Contracts & Agreements**
- 6. Test Standards Review**
 - **ANSI Z97**
 - **CPSC 16 CFR 1201**
- 7. Certification Process**
 - **Prototypes**
 - **Routine Sampling**
 - **Re-Testing**
- 8. SGCC Forms**
- 9. Specific Product Testing**
 - **Tempered**
 - **Laminated**
 - **Patterned**
 - **Bent**
 - **V Grooved or Beveled**
 - **Odd Sizes**
- 10. Lab Manual Review**
- 11. Common Mistakes**
- 12. Question and Answer**

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Procedural Guide Revisions

1. How long are reports good for?

HOW CAN YOU BECOME A LICENSEE?

The following must be accomplished before SGCC® can certify an item of safety glazing material:

- a) The applicant signs two copies of the SGCC® License Agreement ~~(including notarization of the Affidavit, Appendix A)~~ and sends these to SGCC®. SGCC® will countersign all copies and return one to the applicant. Non-manufacturing applicants must include the location and appropriate signatures of their manufacturer for each location.
- b) The applicant directs an SGCC® approved testing laboratory, of its own choosing, to send SGCC® one copy of a valid test report indicating the "initial" or "prototype" samples submitted for testing are in full and complete compliance with ANSI Z97.1 and/or 16 CFR 1201 and/or CAN/CGSB 12.1. Test reports are valid for initial certification if the report date is within 60 days.
- c) The applicant sends to SGCC® the ~~six-month~~ certification fee for each item to be certified. ~~This fee must be submitted within six months of completion of item (b). Failure to do so will result in the need to resubmit item (b). (Revised 10/22/93)~~
- d) (Deleted 10/21/07)

WHAT DOES THE PROGRAM COST?

The licensee pays, in advance, all projected fees for future routine evaluations to SGCC® on a six-month basis. A licensee is invoiced for each certified item separately listed in the Certified Products Directory.

The certification period is from January 1 - June 30 or July 1 - December 31. The licensee's initial invoice will be determined by the payment schedule as is listed below. All subsequent invoices will be for a full certification period.

<u>DATE</u>	<u>ADMINISTRATIVE/CONTINGENCY BUSINESS ACCOUNT FEE</u>	<u>TEST FEE</u>
January 1 - March 31	100%	None
April 1 - June 30	50%	None
July 1 - September 30	100%	None
October 1 - December 31	50%	None

Test reports are valid for initial certification if the report date is within 60 days. ~~No testing is necessary during the initial six-month period if prototype testing took place within 30 days of initial certification. Normal inspection may take place during this initial period, however.~~

2. Delete G.3

Recommend deletion – Z97.1 -2015 resolves

~~G.3 (ANSI ONLY)~~

~~Paragraph (1) Section 5.1.4 of ANSI Z97.1-2009 is intended to apply to laminated, wired, and organic coated glass only. Paragraph (2) is intended to apply to tempered glass only. Paragraph (3) is intended to apply to plastics only. Paragraph (4) is intended to apply to any safety glazing material. Paragraph (5) is intended to apply to plastics. Paragraph (6) is intended to apply to laminated and organic coated glass. (Revised 10/21/2005)~~

3. Guideline L.7 Revisions

Recommend revision, with range of thickness certification, this is not necessary

L.7

Nominal thickness for laminated glass has been expanded from standard ASTM C1036 values to eliminate “gaps” in ranges. For certification purposes, the following thickness tolerances shall be used. Thickness tolerance shall apply only to the overall thickness. ~~The plus tolerance shall be the sum of all the individual plus tolerances of each layer of the laminate. The minus tolerance shall be the sum of all of the individual minus tolerances of each layer of the laminate.~~ Interlayer thickness shall be reported. The reported value shall be used to determine "nominal" thickness of the interlayer, with a maximum allowable minus tolerance of 0.005 inches.

<u>mm</u>	<u>Traditional (in)</u>	<u>Range (in)</u>
3.0	1/8	0.115 – 0.148
4.0	5/32	0.149 - 0.179
5.0	3/16	0.180 – 0.218
6.0	¼	0.219 – 0.291
8.0	5/16	0.292 – 0.354
10.0	3/8	0.355 – 0.468
12.0	½	0.469 – 0.594
16.0	5/8	0.595 – And greater

4. G.5 Question

If the SGCC item number can represent the Licensee and location, could it represent other information?

EXAMPLES OF LABELS CERTIFIED TO ALL THREE STANDARDS

In inches

ABC Glass – Plant A (optional)
16 CFR 1201 II
ANSI Z97.1-2009
CAN/CGSB 12.1-M90
1/4 U A SGCC 9999

In mm

ABC Glass – Plant A (optional)
16 CFR 1201 II
ANSI Z97.1-2009
CAN/CGSB 12.1-M90
6mm U A SGCC 9999

Laminated example

ABC Glass – Plant A (optional)
16 CFR 1201 II
ANSI Z97.1-2009
CAN/CGSB 12.1-M90
(S) U A SGCC 9999

G.5

The SGCC® item number, when used as part of a permanent label, designates the name of the licensee (participant) and also the location of the manufacturing plant. All other required information must appear on the label.

5. Clarification of Corrective Action Response

HOW IS COMPLIANCE ASSURED (Revised 10/2/2014)

Any certified product determined, in the course of routine sampling and evaluation, not in compliance with the applicable test specification(s), is upon first failure subject to the retest requirements of guideline G.11. Should the G.11 retest fail to comply, the product shall be subject to the removal of certification. After the 2nd consecutive failure, the licensee is given 7 days in which to demonstrate to the satisfaction of the Administrator compliance, and if not, certification is automatically withdrawn at the end of the 7-day period.

When any program, audit or quality assurance requirements are found to be in non-compliance, the licensee is sent a request for corrective action giving 30 days in which to demonstrate to the satisfaction of the administrator compliance with requirements. If the licensee does not respond, a warning of possible removal of authorization to use the SGCC® permanent label is sent giving an additional 30 days to respond. If the licensee does not respond acceptably, authorization to use the SGCC® permanent label is **automatically terminated** at the end of that 30 day period.



Application of Reference Standards (1036, 1048, 1172)

1. References to related standards

SGCC – None (Except for thickness)

ANSI Z97.1 – in definitions section “See ASTM C 1048 for additional Information

Question - Can a product that does not meet 1036, 1048, 1172 be SGCC certified?

Answer (proposed) –

Neither ANSI Z97.1 nor SGCC clearly say ... “You must meet 1048” (or 1036, 1172). There are vague references but no mandate. This is not the case for ASTM C1036 thickness requirements, which are clearly addressed. ASTM C1048, 1036, 1172 have lots of requirements on many attributes of safety glass (quality, dimensions, fabrication) and it may not even be practical in all situations to meet all references. For example section 7.9 of C1048 specifically states fabrication “Guidelines” which are well outside Z97.1 and SGCC. While some other entity may mandate compliance with C1048, I believe neither ANSI Z97.1 nor SGCC makes such a mandate.

In summary, ASTM C1048, 1036, 1172 are not mandated by either ANSI Z97.1 nor SGCC and so non-compliance with ASTM C1048 would not (automatically) effect ANSI Z97.1 or SGCC. Now if the 1048 non-compliance was the cause of Z97.1 break pattern non-compliance, then that may be different.

2. Labelling of Product

Question:

Can product be labeled to 1036, 1048, 1172?

Is any SGCC Guideline required?

Current

For labeling purposes, a line of demarcation shall separate those specifications covered by the SGCC® number from any other specifications the licensee may wish to reference.

Attachment #12

