

**safety glazing certification council**

P.O. BOX 730

SACKETS HARBOR, N. Y. 13685

PHONE 315-646-2234

FAX 315-646-2297

**MINUTES OF SEVENTY-NINETH  
MEETING OF THE  
CERTIFICATION COMMITTEE  
OCTOBER 17 and 18, 2007  
COURTYARD BY MARRIOTT  
ORLANDO, FL**

**Members and Alternates Present**

		<b>Date and Votes Present</b>	
		<b><u>10/17/07</u></b>	<b><u>10/18/07</u></b>
AGC Fab.	Mark Cody	1	1
AGC Industries	Mark Cody	1	1
Arch Aluminum & Glass	Tim Moore	1	1
Cardinal Glass	Bernie Herron	1	1
Consolidated Glass	Carl Carmen	1	1
Guardian Fabrication Inc.	Kevin Olah	1	1
Guardian Industries Corp.	Kevin Olah	1	1
Guardian Canada Corp	Henry Gorry	1	1
Oldcastle Glass	Rick Wright	1	1
Oldcastle Glass CPG	Rick Wright	1	1
Val Temperbent	Richard Paschel	1	1
Val Glass S.P.A.	Richard Paschel	1	1
Viracon	Lyle Krohnberg	1	1

**Members by Virtue of Being a Director**

Public Interest	Elaine Rodman	1	1
Public Interest	William Nugent	1	1
Public Interest	Peter Weismantle	1	1
Public Interest	June Willcott	1	1

<b>Votes</b>	<u>17</u>	<u>17</u>
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**Guests**

Architectural Testing, Inc.	Scott Swaltek	Present	Present
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**Legal Counsel**

Schiff, Hardin LLP	William M. Hannay	Present	Present
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**Administrative Staff**

AMS, Inc.	John Kent	Present	Present
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<b>Persons Present</b>	<u>16</u>	<u>16</u>
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10.17.07.1 The meeting was called to order at 1:35 by Chairman Mark Cody and a quorum declared. All present introduced themselves.

- 10.17.07.2 The minutes of the April 25 and 26, 2007 meeting were reviewed. A motion was made by Paschel/Olah to approve the minutes as submitted.
- Vote: Unanimous Affirmative  
Motion Passed
- 10.17.07.3 **Committee Structure**
- (See Attachment #1)
- A list of the committee structure of SGCC was presented. The list was reviewed and revisions suggested. Attachment #1 is a result of the suggested revisions.
- 10.17.07.4 **Board of Directors' Report – W. Nugent**
- A. The SGCC Certificate of Insurance policy was reviewed at length. SGCC had required each licensee to provide SGCC with a certificate of insurance naming SGCC as an additionally insured on product liability insurance. The Board has voted to do away with this requirement. The license agreement will be revised to add additional indemnification language and SGCC shall purchase an Errors and Omissions (E & O) insurance policy to supplement the current Directors and Officers (D & O) policy.
  - B. Review of SGCC offering some form of certification to Canadian standards was tabled for now until stronger interest is expressed by licensees.
  - C. The Board nominating committee at the later participants meeting will recommend going to a 4 + 4, 4 public interest and 4 business interest board, from 5+5.
- 10.17.07.5 **Financial Report – E. Rodman**
- (See Attachment #2)
- 10.17.07.6 **Legal Counsel's Report – W. Hannay**
- A. SGCC Anti-Trust Guidelines were distributed to the group and read out loud (See Attachment #3).
  - 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.
  - C. Certificate of Insurance compliance was distributed for information. This policy has been terminated as reported in the Board report (See Attachment #4)
- 10.17.07.7 **Administrator's Report – J. Kent**
- (See Attachment #5)
- 10.17.07.8 **Quick Action Sub-committee Report**
- There was no activity to report since the last meeting.
- 10.17.07.9 **Testing Laboratory Status**

(See Attachment #6)

10.17.07.10 **Customer Surveys**

(See Attachment #7)

Based on discussion from the last meeting and in an effort to gauge laboratory performance a customer survey was sent to all SGCC licensees. Questions were also included as to the auditor's performance and the administrative office's performance. After review, it was felt that the response was too small to draw firm conclusion, but the survey did not seem to indicate any glaring problem. It was agreed to share the results with participants and labs.

10.17.07.11 **Report Processing Time**

(See Attachment #8)

There have been concerns expressed over the last several meetings regarding delays with test reports and report processing. The attached data was assembled to help evaluate this issue. It was requested to add a column "Total Lab Time". The information should be presented generically at the next meeting with a bigger data set.

10.17.07.12 **ANSI Z97.1 Update – K. Olah**

(See Attachment #9)

10.17.07.13 **Program Testing Results Review**

(See Attachment #10)

Although no specific conclusions were drawn, the data was reviewed and its value recognized for consideration in future discussion.

10.17.07.14 **Certification of Laminated Glass**

(See Attachment #11)

The laminated glass subcommittee presented a proposal for new guidelines for the certification of laminated glass. No conclusion was reached by the end of the day

10.17.07.15 **The meeting was recessed at 5:17 pm**

10.18.07.1 **The meeting was reconvened at 8:35 am**

10.18.07.2 **Certification of Laminated Glass**

(See Attachment #11)

Discussion continued regarding certification of laminated glass. A motion was made by Paschel/Moore to accept the recommendations of the laminated glass subcommittee in

concept. The laminated glass subcommittee and the quick action subcommittee shall work to further develop the details of a final proposal for implementation 1/1/08.

Vote: Unanimous Affirmative  
Motion Passed

*(Subsequent to these minutes, a proposal for the certification of laminated glass was finalized titled "Proposal for Cert Lam Glass 11-5-07". This document is posted on the SGCC webpage at [www.sgcc.org](http://www.sgcc.org) or is available for review by contacting the SGCC office.)*

**10.18.07.3 Thickness Range Outside ASTM C1036**

(See Attachment # 12)

At the last meeting, guideline G.29 had been revised as follows:

*"G.29 - For the purposes of certification, the thickness requirements of Specification ASTM C1036, CEN or other nationally or internationally recognized thickness specifications shall apply.*

The Administrator was requested to provide an example of how this will be illustrated in the Certified Products Directory (CPD). Material was reviewed and revised at the meeting resulting in attachment #12.

**10.18.07.4 SGCC Laboratory Manual**

(See Attachment #13)

Concern was raised regarding requirements for the retention of failed test samples after SGCC testing. Lab instruction G.27 was annotated live at the meeting resulting in the wording in attachment #13. A motion was made by Willcott/Cody to accept the lab manual guidelines as revised.

Vote: Unanimous Affirmative  
Motion Passed

**10.18.07.5 SGCC Label Content**

(See Attachment # 14)

Wording of current SGCC label requirements was reviewed. Specifically, wording was revised as follows:

*"These requirements are minimum requirements for SGCC Certification. It is the licensee's responsibility to determine if other jurisdictions, standards and codes have additional requirements such as type of glass."*

A motion was made by Paschel/Cody to accept revisions to the labeling requirements as presented.

Vote: Unanimous Affirmative  
Motion Passed

10.18.07.6     **Old Business**

None

10.18.07.7     **New Business**

None

10.18.07.8     **Next Meeting**

It was agreed that the next meeting, would be coordinated with the ANSI Z97.1 committee meeting in Baltimore MD. SGCC's meeting will be April 1 and 2, 2008 at an inner harbor hotel where as the Z97 meeting will be April 2 and 3, 2008.

10.18.07.9     In consideration of SGCC's coordination of the next meeting with ANSI Z97, discussion was raised regarding the design of a new impactor. Some of the practical problems of the current impactor were raised. There appeared to be some interest on SGCC's part for taking this on as a project.

10.18.07.10    The meeting was adjourned by the chair at 10:09 am.



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## SGCC Committee Structure (as of 10/18/07)

<b>SGCC Board of Directors</b>		<b>President:</b> William Nugent
<b>Scope:</b> The overall affairs of the Council shall be managed by its Board of Directors.		
<b>Members</b>		
Bernie Herron – Vice President	Peter Weismantle	Richard Paschel
June Willcott - Secretary	Mark Cody	Carl Carmen
Elaine Rodman - Treasurer		

<b>Sub Committee: Nominating</b>	<b>Chair:</b> Richard Paschel	<b>Public Interest Member:</b> Peter Weismantle
<b>Scope:</b> 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.		

<b>Sub Committee: Quick Action</b>	<b>Chair:</b> Mark Cody
<b>Scope:</b> 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.	
<b>Members</b>	
SGCC President	William Nugent
Certification Committee Chair	Mark Cody
Public Interest	June Willcott

<b>Sub Committee: Time, Place and Marketing</b>	<b>Chair:</b> Elaine Rodman
<b>Scope:</b> 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.	
<b>Members</b>	
Rick Wright	

<b>Sub Committee: Laboratory and QA Inspection</b>		<b>Chair:</b> Kevin Olah
<b>Scope:</b> 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.		
<b>Members</b>		
Bernie Herron	Rick Wright	Don Vild
Cliff Monroe	Tim Moore	Mark Cody

**ATTACHMENT #1**

<b>Sub Committee: Laminated Glass Review</b>		<b>Chair:</b> Rick Wright
<b>Scope:</b> Review SGCC guidelines for the certification of Laminated Glass		
<b>Members</b>		
Don Vild		Cliff Monroe



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ATTACHMENT #2

## Annual Financial Comparison Summary

Revenues	2001/2002	2002/2003	2003/2004	2004/2005	2005/2006	2006/2007
Administrative	\$201,037	\$259,563	\$238,383	\$300,770	\$306,298	\$478,848
Testing	\$263,298	\$336,961	\$360,036	\$429,682	\$317,424	\$576,784
Business Acct. income	N/A	\$14,168	\$30,959	\$32,585	\$38,700	\$46,659
Impactor Bags	N/A	N/A	N/A	N/A	\$1,100	\$1,430
Test Labs Under Five	N/A	N/A	N/A	N/A	\$2,000	\$2,000
Interest Income	\$16,595	\$10,960	\$9,276	\$9,057	\$18,093	\$18,629
<b>Total Revenues</b>	<b>\$480,930</b>	<b>\$621,652</b>	<b>\$638,654</b>	<b>\$772,094</b>	<b>\$683,615</b>	<b>\$1,124,350</b>

Expenses	2001/2002	2002/2003	2003/2004	2004/2005	2005/2006	2006/2007
Administrative	\$201,037	\$259,563	\$238,383	\$300,770	\$306,298	\$478,848
Testing	\$263,298	\$290,445	\$327,036	\$429,682	\$317,424	\$540,072
Accounting	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Legal	\$10,664	\$14,999	\$16,832	\$20,160	\$17,538	\$19,771
Board Meetings	\$8,689	\$8,638	\$9,383	\$9,877	\$9,927	\$9,289
Miscellaneous	\$773	\$8,137	\$1,576	(\$163)	\$2,826	\$1,000
Insurance	\$3,560	\$4,450	\$5,340	\$5,607	\$5,607	\$5,607
Web Page	\$4,215	\$309	\$548	\$3,689	\$1,925	\$1,400
Bank Charges	N/A	N/A	N/A	N/A	\$1,558	\$1,895
Marketing	\$22,356	\$20,215	\$20,592	\$6,783	\$0	\$10,000
<b>Total Expenses</b>	<b>\$517,592</b>	<b>\$606,756</b>	<b>\$622,690</b>	<b>\$779,405</b>	<b>\$666,103</b>	<b>\$1,070,882</b>
<b>Change in Net Assets</b>	<b>(\$36,662)</b>	<b>\$11,896</b>	<b>\$15,964</b>	<b>(\$7,311)</b>	<b>\$17,512</b>	<b>\$53,468</b>
<b>Net Assets</b>	<b>\$129,349</b>	<b>\$141,245</b>	<b>\$157,209</b>	<b>\$149,898</b>	<b>\$167,410</b>	<b>\$220,878</b>

Investments	Interest Rate	Date of Maturity	Current Value as of 10/8/07
#1 First National Bank of Dryden	3.70	5/28/08	\$78,976
#3 National City Bank	3.72%	8/17/08	\$105,096
#6 MBNA Invest Serv/Bk of America	3.69%	12/11/07	\$ 55,404
#7 Redwood National Bank	2.27%	11/23/08	\$ 99,012
#8 Community Investment Services	4.57%	N/A	\$110,243
#9 Key Bank	5.15%	1/1/08	\$80,000
#10 Alliance	5.00%	5/1/08	\$80,000

SGCC Banking Accounts	
Account	Balance as of 10/8/07
HSBC Checking Account	\$1,178.18
HSBC Savings Account	\$7,114.73
WSB Savings Account	\$176,400.25



**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.

October 2007

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

Company	Cert. Exp.	Corresp	Update	Contact Name
A-1 Glass Unlimited	07/21/07	08/28/07	12/12/06	George Gonzalez
ACI Distribution	10/01/08		09/27/07	
AFG Industries, Inc.	01/01/08		04/07/07	
All Team Glass & Mirror, Ltd.	08/24/07		10/20/06	
American Shower Door	02/28/08		03/14/07	
AMSCO Windows	07/01/07	08/28/07	04/06/07	Joe Jonly
Anlin Industries	08/01/08		09/24/07	
Anthony International	01/01/08		01/12/07	
Arch Aluminum & Glass Co.	04/28/08		05/04/07	
Arlene Stained Glass	11/09/07		01/18/07	
Atwood/Spec-Temp, Inc.	08/27/08		09/26/07	
Bendheim Company, Inc.	01/11/08		03/22/07	
Berkowitz, J.E.	05/01/08		05/08/07	
Binswanger Mirror	10/01/07		10/23/06	
Bronco Industries, Inc.	02/05/08		04/13/07	
Cameron Glass, Inc.	07/01/08		07/30/07	
Cardinal IG	10/01/07		10/23/06	
Cat I Manufacturing, Inc.	11/08/07		01/13/06	
Changshu Hard Glass	07/21/08		10/12/07	
Changshu Xingfu Glass Material Co., Ltd.	03/13/08		04/12/07	
Changshu Zhongcheng Building Material Co., Ltd.	04/26/08		05/30/07	
Chicago Tempered Glass, Inc.	10/15/07		10/23/06	
Coastal Glass Distributors	10/01/07		10/20/06	
Colonial Mirror & Glass Corp	11/01/07		09/07/07	
Commercial Insulating Glass Co.	06/01/08		07/03/07	
Consolidated Glass Corporation	11/15/07		12/14/04	
Contour Industries, Inc.	01/01/08		09/20/07	
Contractors Wardrobe	03/01/07	04/16/07 08/28/07	05/30/06	Rene Orellana
Coral Industries, Inc.	12/31/07		01/04/07	
Craftsman Tempered Glass Division of Glass Wholesalers	08/01/07		10/26/06	
Day Specialties Corporation	01/01/08		04/09/07	
Desert Glass Products, Inc.	10/25/07		05/21/07	
Dlubak Corporation	07/07/08		09/10/07	
Dong Sung Glass Korea Co., Ltd.	12/27/05	03/27/06 08/04/06	06/21/05	Jimmy Kim
Dongli Tempered Glass	09/30/05	10/11/05 01/10/06	01/06/05	
Downey Glass Industries, LLC	11/08/07		02/05/07	
Eckelt Glas GmbH	01/01/05	04/14/04 06/29/04 10/27/06 (SGCC) 11/16/06	04/13/04	Christian Eckelt
Edge Seal Technologies	01/07/08		01/03/07	
EFCO Corp.	09/10/08		10/02/07	
Engineered Glass Products L.L.C.	06/01/08		06/13/07	
FTG of NC LLC	12/21/07		01/04/07	
Galaxy Glass Corp., Inc.	11/21/07		03/28/07	
Gemtron Corp.	09/30/08		09/25/07	
GGI Glass Distributors Corp.	09/01/08		09/24/07	
Glass Design of Miami, Inc.	07/15/08		09/25/07	
Glass Dynamics, Inc.	12/10/07		12/18/06	

Company	Cert. Exp.	Corresp	Update	Contact Name
Glass South Africa, LTD	07/01/07	08/28/07	03/14/07	Graham Cranswick
Glass, Inc.	12/19/07		01/03/07	
GMS Tempering Corp.	04/05/07	06/01/06 09/27/06	06/01/06	Eleyne Gonzalez
Goldray, Inc.	05/22/08		06/11/07	
Grand Glass Corporation	06/22/08		06/27/07	
Guardian Industries/Fab	06/01/08		06/12/07	
Haida Safety Glass, Ltd.	04/06/08		09/20/07	
Industrial Tempering Glass	08/24/07	06/01/06 09/27/06	06/01/06	Alexander Weinberger
Intex Glass (Xiamen) Co., Ltd.	08/01/08		09/24/07	
Kohler Company	11/01/07	05/19/06 08/04/06 05/10/07 (SGCC) 07/23/07		Doug Glisson
Laurier Glass Ltd.	02/04/08		02/15/07	
Limited Edition Glass Works	7/22/07	08/28/07	04/12/07	Gerry Rizzardo
Mid Ohio Tempering	08/24/07		09/08/06	
Milgard Tempering, Inc.	06/30/08		06/25/07	
Mirror Factory Inc.	04/01/08		07/17/07	
MirrorCrafters Custom Beveling, Inc.	05/30/08		06/05/07	
Multiver	05/02/08		09/06/07	
Nashville Tempered Glass Corp.	12/01/07		09/24/07	
Oldcastle Glass	09/01/08		09/14/07	
Oldcastle Glass North Miami f/k/a FLT Glass	09/01/07		03/28/07	
Patio Enclosures, Inc.	07/05/08		09/24/07	
PDC Glass & Metal Services	08/24/07		09/08/06	
PGT Industries	01/01/08		01/03/07	
Pilkington Australia	04/01/08		05/02/07	
PPG Industries, Inc.	Self-insured		12/04/96	
Prelco, Inc.	05/07/08		09/07/07	
PT Surya Adhitia Fortuna Glass	07/10/06	08/07/06 10/20/06 (SGCC)	01/17/06	Robert Deeb
PT Tunggal Majuasri Glass	02/11/06	03/28/06 08/04/06	02/24/05	Budiawan Jusmin
Qinhuangdao AMPAC Building Products Co., Ltd.	01/11/08		01/12/07	
Qinhuangdao Jixiang Glass Industry	03/02/08		03/14/07	
QinHuangDao Tianrui Tempered Technology Glass Co.	07/15/08		07/26/07	
Quaker Window Products	04/01/08		04/30/07	
Quality Glass & Mirror Inc.	09/17/08		09/27/07	
SaintGobain Glass Mexico S.A. de C.V.	07/01/05	09/09/05 01/10/06	10/26/04	
Shanghai Lvyuan Glass Co., Ltd.	07/10/08		07/26/07	
Shanghai Yaohua Pilkington Glass Co.	09/28/07		11/14/06	
Shaw Glass Co., Inc.	12/31/07		01/04/07	
Shenzhen Sanxin Special Glass Technology	01/09/08		03/01/07	
SIGCO, Inc.	08/30/08		09/24/07	
Simonton Windows	04/01/07	05/24/07 08/28/07	06/15/06	Chuck Anderson
Sovis North America	03/01/08		03/15/07	

Company	Cert. Exp.	Corresp	Update	Contact Name
SRT Glass, LLC	04/11/08		04/30/07	
Sunshine Performance Glass	04/26/08		04/30/07	
Swift Glass Co., Inc.	01/01/08		01/05/07	
Syracuse Glass Co., Inc.	04/01/08		09/24/07	
Techni-Glass, Inc.	09/22/08		09/24/07	
Tecnoglas	09/12/06	10/17/06 03/07/07	01/10/06	Christian Daes
Temperbent Glass	03/01/08		04/12/07	
Tempered Glass, Inc.	08/24/07		09/08/06	
TianJin Dong Sung Glass		10/27/06 03/07/07		Jimmy Kim
Toughglass Holdings Ltd.	08/31/08			
TRACO	04/01/08		04/13/07	
Triple Seal Ltd.	02/28/07	03/07/07 07/11/07	11/16/06	Victor Babooskinsl
United Plate Glass Co., Inc.	01/01/08		03/07/08	
Val S.P.A.	12/31/07		02/09/07	
Vetzeria Valentini S.R.L.	12/31/07		02/22/07	
Vidrieria Argentina	04/01/06	05/31/06 08/04/06	05/31/05	Ernesto Giraldi
Vidrios Lirquen	03/31/08		04/25/07	
Viracon, Inc.	03/01/08		04/12/07	
Virginia Glass Products Corp.	08/01/08		09/24/07	
Vitro Columbia S.A./Glasswall	03/03/08		07/30/07	
Viwinco, Inc.	03/01/08		01/03/07	
Westshore Glass	06/01/08		06/14/07	
XYG Glass	01/01/08		03/15/07	
Yao Xiang Glass Product Co., Ltd.	07/25/08		08/07/07	
Zhejiang Gelaweibao Glass Technological Co.	05/01/07	06/05/07 08/28/07	06/01/06	Robert Deeb

**ADMINISTRATIVE REPORT****SGCC October Meeting****October 17 & 18, 2007****July 1, 2007 Certified Products Directory (CPD)**

<i>Cut-off Date</i>	<i>Copies</i>	<i>Subscription List Mailing</i>
<b>July 1, 2007</b>	<b>2050</b>	<b>1951</b>

**Certification ~~Removed~~ Since Publishing July 1, 2007 CPD****ANSI Program**

None

**CPSC Program**

None

**Composite Program****AGC Flat Glass North America; Jacksonville, FL**

SGCC #3012 3/16-inch TPG

**Architectural Safety Glass; Ft. Pierce, FL**

SGCC #1914 1/4-inch LTG

**Arch Deco Glass; Columbus, OH**

SGCC #2511 1/4-inch LTG

SGCC #2175 1/2 -inch LTG

**Coastal Glass Distributors; Charleston, SC**

SGCC #2528 9/32-inch LTG

**Glass South Africa, LTD Springs**

SGCC #2712 5/32-inch TTG

SGCC #2767 1/4-inch TTG

**Oldcastle Glass Louisville; Louisville, KY**

SGCC #3204 1/8-inch TTG

SGCC # 3211 1/8-inch TPG

**Oldcastle Glass Lithia Springs; Lithia Springs, GA**

SGCC# 3304 1/8-inch TTG

SGCC #3305 3/16-inch TTG

SGCC #3306 1/4-inch TTG

SGCC #3309 3/16-inch TPG

SGCC #3307 1/4-inch LTG

**Specialty Building Products; New Westminster, BC Canada**

SGCC #2121 1/8-inch TTG

SGCC #2504 5/32 -inch TTG

SGCC # 2309 3/16-inch TTG

**SRT Glass, LLC; Brazil**

SGCC #3504 5/16-inch TTG

SGCC #3552 1/4-inch TTG

**Zhejiang Gelaweilbao Glass Technological Co.; Zhejiang, China**

SGCC #3588 1/8-inch TTG  
SGCC #3589 5/32-inch TTG  
SGCC #3590 3/16-inch TTG  
SGCC #3591 1/4-inch TTG  
SGCC #3409 5/16-inch TTG  
SGCC #3592 1/2-inch TTG

**Certified Products NOT in July 1, 2007 CPD**

**ANSI Program**

None

**CPSC Program**

None

**Composite Program**

**ACI Santa Clara; Santa Clara, CA**

SGCC #2368 3/16-inch TPG

**AGC Flat Glass North America; Hebron, OH**

SGCC #3768 1/8-inch TPG

**AGC Flat Glass North America; Jacksonville, FL**

SGCC #3782 5/16-inch LTG

SGCC #3785 3/16-inch TPG

**AGC Flat Glass North America; Opelousas, LA**

SGCC #3705 5/32-inch TTG

SGCC #3706 3/8-inch TTG

SGCC #3707 1/2-inch TTG

SGCC #3708 5/32-inch TPG

SGCC #3709 1/4-inch TPG

SGCC #3710 3/8-inch TPG

**AGC Flat Glass North America; Reidsville, NC**

SGCC #3744 3/16-inch TPG

**Al Abbar Architectural Glass; Dubai UAE**

SGCC #3556 1/4-inch TTG

SGCC #3557 5/16-inch TTG

SGCC #3558 3/8-inch TTG

SGCC 3559 1/2-inch TTG

SGCC #3560 1/2-inch LTG

**Coastal Glass Distributors; Charleston, SC**

SGCC #3791 5/16-inch LTG

**Coastal Glass Distributors; Jacksonville, FL**

SGCC #3678 1/8-inch TTG  
SGCC #3679 5/32-inch TTG  
SGCC #3680 3/16-inch TTG  
SGCC #3681 1/4-inch TTG  
SGCC # 3683 1/2-inch TTG  
SGCC #3684 1/8-inch TPG  
SGCC #3685 5/32-inch TPG  
SGCC #3686 3/16-inch TPG  
SGCC #3687 1/4-inch TPG  
SGCC #3688 3/8-inch TPG

**Insulite Glass Co., Inc.; Olathe, KS**

SGCC #3712 1/8-inch TTG  
SGCC #3713 5/32-inch TTG  
SGCC #3715 1/4-inch TTG  
SGCC #3716 3/8-inch TTG  
SGCC #3717 1/2-inch TTG

**J.E. Berkowitz; Pedricktown, NJ**

SGCC #3749 1/4-inch LTG  
SGCC #3750 3/8-inch LTG  
SGCC #3751 1/2-inch LTG

**PFG industries; Langley, BC Canada**

SGCC #3711 1/4-inch TPG

**PGT Industries; Salisbury, NC**

SGCC #3525 5/16-inch LTG

**Quaker Window Products, Inc.; Freeburg, MO**

SGCC #3485 1/4-inch TTG  
SGCC #3486 3/16-inch TPG

**Ready Glass; Hialeah, FL**

SGCC #3745 3/16-inch TTG  
SGCC #3746 1/4-inch TTG  
SGCC #3747 3/8-inch TTG  
SGCC #3748 1/2-inch TTG

**Shanghai Lvyuan Glass Co., Ltd; Shanghai, China**

SGCC #3702 5/32-inch TTG  
SGCC #3703 1/2-inch TTG  
SGCC #3704 9/16-inch TTG

**Tai Shan City Da Heng Art Glass, Ltd.; Guangdong, China**

SGCC #3787 1/8-inch TTG  
SGCC #3788 5/32-inch TTG  
SGCC #3789 3/16-inch TTG  
SGCC #3790 1/4-inch TTG

**The Limited Edition Glassworks, Inc.; Brampton, ON Canada**

SGCC #3613 3/16-inch TTG  
SGCC #3614 1/4-inch TTG

**Traco (Three Rivers Alum); Cranberry Township, PA**

SGCC #2748 5/16-inch LTG  
SGCC #2749 7/16-inch LTG  
SGCC #2750 9/16-inch LTG

**Trimlite, LLC; Renton, VA**

SGCC #3784 1/8-inch TTG

**Yao Xiang Glass Product Co. Ltd.; Guang Dong China**

SGCC #3736 5/32-inch TTG  
SGCC #3737 3/16-inch TTG  
SGCC #3738 1/4-inch TTG  
SGCC #3739 5/16-inch TTG  
SGCC # 3740 3/8-inch TTG  
SGCC #3741 1/2-inch TTG  
SGCC #3742 3/16-inch TBG  
SGCC #3743 1/4-inch TBG

**Name Changes since July 1, 2007 CPD**

**AFG Inds. Inc.**

is now

**AGC Flat Glass North America**

-----  
**Edge Seal Technologies; Walton Hills, OH**

is now

**Intigral, Inc.**

-----  
**Phoenix Tempering Corporation; Hollywood FL**

is now

**Event Horizon Glass**

-----  
**Spec-Temp, Inc.; Antwerp, OH**

is now

**Atwood Mobile Products**

-----  
**Oldcastle Glass Stone Mountain; Stone Mountain, GA  
and Oldcastle Glass Lithia Springs; Lithia Springs, GA**

are now joined as

**Oldcastle Glass Atlanta; Covington, GA**

-----  
**Oldcastle Glass Burnaby; Burnaby, BC Canada**

is now

**Oldcastle Glass Langley; Langley, BC Canada**

-----  
**Sovis North America Inc.; Thierry, France**

is now

**Saint-Gobain SOVIS; Thierry, France**

-----  
**Size Changes since July 1, 2007 CPD**

**Contour Industries, Inc.; Surgoinsville, TN**

Changed from limited 18"x76" to Unlimited



**SGCC Participation Comparison**

	<b>F05</b> (AS OF 3/29/05)	<b>L05</b> (AS OF 10/11/05)	<b>F06</b> (AS OF 4/17/06)	<b>L06</b> (AS OF 10/5/06)	<b>F07</b> (AS OF 4/17/07)	<b>L07</b> (AS OF 10/2/07)
No. of Participating Plants	164	166	199	206	213	221
No. of Offshore Plants (Non US & Canada)	25	30	32	31	29	33
No. of Licensees	100	102	105	106	113	123
Total Certified Products	867	894	1196	1276	1356	1433
ANSI Only	125	121	108	117	110	88
CPSC Only	58	51	62	50	52	39
COMPOSITE	684	722	1026	1109	1194	1306

**SGCC Website Report**

<b>2007</b>	<b>Total Visitors</b>	<b>Most Visited Section</b>	<b>2<sup>nd</sup> Most Visited</b>	<b>3<sup>rd</sup> Most Visited</b>	<b>Downloads of CPD</b>	<b>Top Visiting Country</b>
<b>April</b>	3,777	Who's Certified	Download Forms	Initial Certification Process	215	China
<b>May</b>	3,741	Who's Certified	Download Forms	Initial Certification Process	226	China
<b>June</b>	3,902	Who's Certified	Download Forms	Initial Certification Process	216	Australia
<b>July</b>	3,948	Who's Certified	Download Forms	Approved Labs	93	Australia
<b>August</b>	3,378	Who's Certified	Download Forms	Initial Certification Process	214	Australia
<b>September</b>	2,640	Who's Certified	Download Forms	Initial Certification Process	161	Australia

## **SGCC Testing Laboratory Status (as of 10/2/07)**

5. *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. 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 fee of \$1000 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.*
7. *Approval as an SGCC Approved Testing Laboratory may be removed for failure to adhere to any of the above provisions or failure to pay any outstanding fees older than 60 days.*

<b>Company</b>	<b>Location</b>	<b>Auth Code</b>	<b>Date of Initial Approval</b>	<b>Date of Last Inspection</b>	<b>Approved by SGCC</b>	<b>Signed Agmt</b>	<b>Lab fee PAID</b>
Architectural Testing Inc.	St. Paul, MN	2	10/6/92	8/20/07	4/25/07	9/9/04	
Architectural Testing Inc.	York, PA	2	6/30/85	3/23/07	4/25/07	10/26/04	
Architectural Testing Inc.	Fresno, CA	2	11/18/97	9/22/06	4/25/07	9/9/04	
Architectural Testing Inc.	Southlake, TX	2	7/1/04	10/9/07	4/25/07	6/25/04	\$1000 - Pd
Architectural Testing Inc.	Tampa, FL	1	4/25/07	2/22/07	4/25/07	1/8/07	
Bowser-Morner, Inc.	Dayton, OH	2	1991	4/25/06	4/25/07	2/3/06	
Construction Consulting Laboratory West	Ontario, CA	1	11/19/97	6/13/07	4/25/07	9/7/04	
ETC Laboratories	Rochester, NY	2	3/8/94	10/13/05	4/25/07	7/30/04	
Fenestration Testing Laboratories	Hialeah, FL	2	10/2/97	10/15/07	4/25/07	10/22/04	
Intertek	Cortland, NY	2	1981	12/15/06	4/25/07	6/23/04	
Quality Testing,	Everett, WA	1	10/14/97	12/14/06	4/25/07	2/2/06	
Rone Engineers, Ltd.	Dallas, TX	2	3/31/00	10/9/07	4/25/07	7/14/04	\$1000 - Pd
Stork-Patzig Testing Laboratories	Des Moines, IA	2	6/11/99	5/13/05	4/25/07	4/4/05	
Stork-Southwestern Laboratories	Houston, TX	2	1/15/90	3/13/06	4/25/07	7/15/04	



# safety glazing certification council

ATTACHMENT # 7

P.O. BOX 730  
SACKETS HARBOR, N. Y. 13685  
PHONE 315-646-2234  
FAX 315-646-2297

By instruction of the Certification Committee at the April 2007 SGCC Certification Committee meeting, the Administrator was directed to conduct a survey of SGCC licensees regarding laboratory performance.

Below is the survey the Administrator created regarding laboratory performance, SGCC Administrative Offices and SGCC Auditor performance were also added. The participants were asked to rate each based upon three specific areas on a scale of Unacceptable to Exceeds Expectations. The SGCC Administrative offices have computed the results on a scale of 1-5, 1 being Unacceptable, 5 being Exceeds Expectations. A comments section was also added so that the participants could add comments.

The comments from participants as well as results of labs on an individual basis are attached.

	(1)	(2)	(3)	(4)	(5)	
	Unacceptable	Needs improvement	Acceptable	Above Average	Exceeds Expectations	Overall Rating Averages
<b>SGCC TESTING LABORATORY</b>						
Timeliness of testing and reports						3.37
Presentation of data in reports	35 Responses					3.59
Assistance with questions or issues						3.56
<b>SGCC AUDITOR</b>						
Knowledge of SGCC guidelines and program						3.84
Conduct during audit (attentive yet fair)	35 Responses					3.9
Attention to detail during audit						3.8
<b>SGCC ADMINISTRATIVE OFFICE STAFF</b>						
Knowledge of program						3.62
Attention to detail	35 Responses					3.66
Timeliness of paperwork and response to issues						3.70
<b>GENERAL COMMENTS</b>	See Comments Attached					

		(1)	(2)	(3)	(4)	(5)	
#	Rated on....	Unacceptable	Needs Improvement	Acceptable	Above Average	Exceeds Expectations	Overall Average
1	Timeliness of testing and reports						3
1	Presentation of data in reports	3 Responses					3.67
1	Assistance with questions or issues						3.67
2	Timeliness of testing and reports						3.5
2	Presentation of data in reports	4 Responses					3.75
2	Assistance with questions or issues						3.5
3	Timeliness of testing and reports						2.8
3	Presentation of data in reports	5 Responses					3.4
3	Assistance with questions or issues						3.4
4	Timeliness of testing and reports						4
4	Presentation of data in reports	1 Response					3
4	Assistance with questions or issues						4
5	Timeliness of testing and reports						3.3
5	Presentation of data in reports	6 Responses					3.8
5	Assistance with questions or issues						4
6	Timeliness of testing and reports	1 Response					5
6	Presentation of data in reports						5
6	Assistance with questions or issues						3
7	Timeliness of testing and reports	1 Response					5
7	Presentation of data in reports						5
7	Assistance with questions or issues						5
8	Timeliness of testing and reports						4
8	Presentation of data in reports	2 Responses					4
8	Assistance with questions or issues						4
9	Timeliness of testing and reports						2.67
9	Presentation of data in reports	3 Responses					3
9	Assistance with questions or issues						2.3
10	Timeliness of testing and reports						3
10	Presentation of data in reports	3 Responses					4
10	Assistance with questions or issues						3.67
11	Timeliness of testing and reports						2.5
11	Presentation of data in reports	2 Responses					3
11	Assistance with questions or issues						4
12	Timeliness of testing and reports						3
12	Presentation of data in reports	3 Responses					3
12	Assistance with questions or issues						3.67
13	Timeliness of testing and reports						2
13	Presentation of data in reports	1 Response					2
13	Assistance with questions or issues						2

## **Comments from Participants:**

“Very meaningful aspect of our industry. Thank you”

“I’m very happy with all of the above. Laboratory testing is a little long but information is great. SGCC auditor Vicky Nikolaros does a great job. She is very thorough and courteous.”

“Program works well!”

“We need better communication between the lab and customer instead of waiting for the customer to ask for progress. Why don’t you automatically update me?”

“I have always found SGCC to be knowledgeable, friendly and a pleasure to deal with.”

“Above Average!”

“Reports of testing received within 3-4 months then next set of samples are sent. Auditor approved 45”x45” pattern sample size, but it does not fit in laboratory test frame.”

“Auditor very helpful. Always willing to answer questions.”

“Usually receive very good response to questions. All other aspects of the program seem to run like clockwork. No problems on our part.”

“Good stuff!”

# Report Processing Time

ATTACHMENT #8

## 4.26.07.5 Report Delays

(See Attachment # 14)

Although there were examples of unacceptable delays, on average the test process seemed to be acceptable. The feeling was to let the marketplace police lab performance. It was recognized that delays at the administrative office and with forwarding paperwork during audits contributes to the overall delay. The Administrator was directed to notify the labs that test and report delays have been of concern and will be monitored and information shared with participants. It was recognized that the customer survey, which was agreed to earlier, would add light to this issue as well.

*The Administrative Offices have implemented an addition to the database which calculates days between:*

### **Selection of Samples → Date Samples Received at the Laboratory**

This calculation tells SGCC whether or not the participant is getting the glass to the laboratory in the allotted 6 weeks time.

### **Date Samples Received at the Laboratory → Date Tested**

This calculation tells SGCC the amount of time past before the glass was tested after the lab received it.

### **Date Tested → Report Date**

This calculation tells SGCC how much time has past between the date the product was tested and the date the report was written.

### **Report Date → Report Received Date**

This calculation tells SGCC the amount of time past between the date of the report was written and the date is received in the SGCC Office.

*See sample data computed below from database:*

## **Product Management Report**

*Certification Period: L07*

SGCC #	Cert Stat	Insp ID	Lab ID	Selection date	Lab rec'd date	Test date	Report date	Report rec'd date	Comments
Anywhere Glass USA				ANL01CA		Anywhere, NY			
6330	C	7	0	7/25/2007	23 8/17/2007	25 9/11/2007	20 10/1/2007	1 10/2/2007	
9703	C	7	0	7/25/2007	23 8/17/2007	25 9/11/2007	20 10/1/2007	1 10/2/2007	
6703	C	7	0	7/25/2007	23 8/17/2007	25 9/11/2007	20 10/1/2007	1 10/2/2007	
7703	C	7	0	7/25/2007	23 8/17/2007	25 9/11/2007	20 10/1/2007	1 10/2/2007	
8703	C	7	0	7/25/2007	23 8/17/2007	25 9/11/2007	20 10/1/2007	1 10/2/2007	
<b>Averages:</b>					23	25	20	1	

## Report Processing Time

(Time Period L07 Averages, in Days as of 10/11/07)

*(This data has only recently begun to be compiled and is based on a limited volume of test data)*

Lab ID #	Selection Date to Lab Received Date	Lab Received Date to Test Date	Test Date to Report Date	Report Date to Report Received by SGCC Date	Selection Date Report Received by SGCC Date
100	14	27	15	5	61
125	22	23	25	2	72
150	23	22	5	4	54
175					
185					
200					
250					
275					
285	10	19	6	6	41
400	29	10	4	14	57
500	14				
550	44	50	4	14	112
750					
900	9	14	3	6	32

## **ASC Z97 Update**

SGCC Meeting October 17 & 18, 2007 Orlando, FL

Last meeting held on October 8 & 9, 2007 in Dallas, TX

- Next meetings:
  - April 2 & 3, 2008 in Baltimore, MD
  - October 14 & 15, 2008 in Las Vegas, NV

### Membership

- 39 primary members; 27 alternates; 2 observers
- One Membership Ballot (M07-0926.01) due November 2, 2007

### Ballot Results

- Affirm members for all task groups – Passed
- Membership of three additional members – Passed
- Affirm changes to ASC Z97 Procedures – Passed
- Affirm Scope, Purpose and Limitations – Passed (currently out for recirculation)

### Technical Interpretation

- No updates since TI-04.06.001

### Website [www.ansiz97.com](http://www.ansiz97.com)

- January-October 1, 2007: 17,141 total “Hits”
- On-line voting section for members is fully functional and the only method for voting

### Scope Committee Task Group

- During the July 18, 2007 Teleconference, the development of two proposed scope documents were presented:
  - Impact-focused
  - Safety-focused
- A ballot (B07-0720.01) went out to the full consensus body for the Safety-focused Scope document (Due August 31<sup>st</sup>) – Passed
  - The full committee reviewed all comments and the recirculation ballot has been sent out

### Testing Requirements and Acceptance Criteria (TRAC) Task Group

- Task group met during the October 8 & 9, 2007 full committee meeting – each subgroup discussed current issues
  - Center Punch Fragmentation
  - Mode of Breakage
  - Weathering

### Labeling Task Group

- No updates

### Reference Standards Task Group

- No updates

### Steering Committee

- Last meeting held October 8, 2007
- Next meeting scheduled for April 2, 2008 in Baltimore, MD



## Program Testing Results

		2000	2001	2002	2003	2004	2005	2006	F07
<b>Selections</b> (Certification Period)	Total	1281	1373	1470	1536	1620	1729	2089	1263
	Participant	925 (72)	755 (55)	627 (43)	365 (24)	682 (42)	925 (54)	851 (41)	471 (37)
	Inspector	356 (28)	618 (45)	843 (57)	1171 (76)	938 (58)	804 (46)	1238 (59)	792 (63)
	Total Tempered Products						1643 (95)	1958 (94)	1159 (92)
	Total Laminated Products						86 (5)	131 (6)	104 (8)
<b>Product Failures</b> (Calendar Year) % Total Failures/% Total Products	Total	21 (1.6)	33 (2.4)	26 (1.8)	31 (2)	36 (2.2)	31 (1.8)	65 (3.1)	55 (4.4)
	Participant Selected	7 (33/.5)	25 (76/1.8)	21 (81/1.4)	17 (55/1.1)	24 (67/1.5)	20 (65/1.2)	54 (83/2.6)	33 (60/2.6)
	Inspector Selected	14 (67/1.1)	8 (24/.6)	5 (19/.4)	14 (45/.9)	12 (33/.7)	11 (35/.6)	11 (17/.5)	22 (40/1.7)
	34x76	20 (95/1.6)	30 (91/2.2)	23 (88/1.6)	16 (52/1)	25 (69/1.5)	30 (97/1.7)	61 (94/3)	38 (69/3)
	Odd Size	1 (5/.1)	3 (9/.2)	3 (12/.2)	14 (45/.9)	6 (17/.4)	0	4 (6/.2)	5 (9/.4)
	24x42			0	1 (3/.1)	5 (14/.3)	1 (3/.1)	0	12 (22/1)
Tempered Failures						24 (67/1.5)	25 (81/1.5)	48 (74/2.3)	33 (60/2.6)
Laminated Impact Failures						4 (11/.2)	5 (16/.2)	8 (12/.4)	19 (34/1.5)
Laminated Boil Failures						8 (22/.5)	1 (3.2/.1)	9 (14/.4)	3 (6/.3)

# Proposal for Cert Lam Glass 10-15-07.doc Certification of Laminated Glass

(Subcommittee: Don Vild, Rick Wright, Cliff Monroe)

## Reference:

- CPSC 16 CFR 1201.4(c)(2) "Specimens shall be tested for each nominal thickness offered by the manufacturer."
- Refer "Laminated glass test results" (last page of this proposal)

## Initial Testing:

Initial certification and testing for laminated glass will be with the thinnest interlayer for each nominal thickness (for total laminate thickness of glass and interlayer) and each generic type of interlayer for which certification is desired.

Nominal Thickness:	mm	Traditional (in)	Revised Range Traditional (in)
(per ASTM C1036)	4.0	5/32	0.149 - <del>0.165</del> .179
	5.0	3/16	0.180 - <del>0.199</del> .218
	6.0	¼	0.219 - <del>0.244</del> .291
	8.0	5/16	0.292 - <del>0.332</del> .354
	10.0	3/8	0.355 - <del>0.406</del> .468
	12.0	½	0.469 - <del>0.531</del> .594
	16.0	5/8	0.595 - <del>0.656</del> And greater

- A) **Passing 5/8 covers all thicker laminates.** This guideline is in recognition that 1) such products are typically used for applications which require strength characteristics beyond normal human impact safety glazing and 2) SGCC testing has historically shown consistent compliance of such products.

Generic Interlayer Categories:	Generic Code	Description
	(b)	Poly Vinyl Butral
	(ip)	Ionoplast
	(lm)	<b>Liquid Resin-Multi Component</b>
	(luv)	<b>Liquid Resin - UV Cure</b>
	(p)	Polyethylene Terephthalate
	(f)	Fluorinated Ethylene propylene
	(u)	<b>Polyurethane</b>

## Ongoing Certification:

Ongoing certification of laminated glass shall utilize the following thickness categories:

S = Standard	4 to 6mm	< 0.292* - inch (5/16) (7.4 mm)
H = Heavy	8 mm and greater	≥ 0.292 - inch (5/16) (7.4 mm)

(\* 0.292 - inch was chosen as the break point since the "S" category should include all 0.030 interlayer products which utilize glass 1/8-inch, double, 3mm or less.)

**“Participant”** selected sample ongoing testing shall be with the thinnest interlayer and the thinnest product certified.

**“Inspector”** selected sample ongoing testing shall be with any product in the certified thickness category, at the discretion of the administrator’s representative.

### **Sample CPD Listing:**

SGCC#	TEST STD	INCH	MM	TYPE	MAX SIZE	ANSI CLASS
4444	Composite	S	6	LTG (b)(.015)(C1)	U	B
<del>5555</del>	<del>Composite</del>	<del>S,H</del>	<del>4-8</del>	<del>LTG (b) (.030)</del>	<del>U</del>	<del>A</del>
1111	Composite	S	4-6	LTG (b) (.030)	U	A
6666	Composite	H	≥8	LTG (b) (.030)	U	A
7777	Composite	S	4-6	LTG (ip) (.030)	U	A
8888	Composite	H	8-12	LTG (ip) (.030)	U	A
9999	Composite	S	6	LTG (l) (0.030)	U	A

The inch column in the directory shall indicate thickness category while the “MM” column shall indicate the range of thickness and any limitations.

### **Guidelines:**

- 1) Evolve “Initial Testing”, and “Ongoing Certification” (as above) into new guidelines.
- 2) Any interlayer supplier within a generic category shall be certified **as long as their interlayer has passed the testing at least once.**
- 3) Delete current SGCC guideline L.3, L.7 (first par.).
- 4) Modify L.4 to read, “When a laminated glass is certified, other laminated glasses having a greater thickness of plastic interlayer will be included in the certification”.
- 5) SGCC labeling guidelines shall apply with the addition of the thickness designation, “S” or “H”.

**Laminated Glass Failure Results**

ID	Thickness	Size Tested	Type Failure	Interlayer
2004	1/4	34x76	I	(.030)(b)
2004	1/2	34x48	I	(.030)(l)
2004	1/4	34x48	I	(.030)(l)
2004	9/32	20x30	I	(.030)(l)
2005	1/4	16x30	I	(.030)(b)
2005	1/4	34x76	I	(.030)(b)
05-07	5/32	34x76	I	(.015)(b)
05-08	1/4	34x76	I	(.030)(b)
05-09	7/32	34x76	I	(.030)(b)
06-07	1/4	34 x 76	I	(.030)(b)
06-16	1/4	34 x 76	I	(.015) (b)
06-17	1/4	34 x 76	I	(.030) (b)
06-20	1/4	34 x 76	I	(.030) (b)
06-28	5/32	34 x 76	I	(.015) (b)
06-33	1/4	34 x 76	I	(.030) (b)
06-58	1/2	34x76	I	(.015)(b)
06-64	1/4	24x30	I	(.030)(b)
06-67	3/16	34x76	I	(.030)(b)
06-68	9/32	34x76	I	(.030)(b)
06-72	1/4	34x76	I	(.075)(b)
06-73	1/4	34x76	I	(.030)(b)
06-74	1/4	34x76	I	(.030)(b)

Label Required	SGCC	ANSI Z97.1 84/R94	ANSI Z97 2004	CPSC 16 CFR 1201	CAN/CGS B 12.1-M	IBC 2003
	Yes	Yes	Yes	Certificate or label	Yes	Temp.=label Other=Certificate
Mfg name or logo or place of mfg.	As Code	Yes	Yes	Yes	Yes	Yes
Standard reference	Yes	Yes	Yes	Yes	Yes	Yes
Thickness	Yes	Yes				Maybe
Size Class	Yes	Yes	Yes		Yes	
Date of Mfg				Yes		
Impact Class			Yes		Yes	
Certification ID #	Yes					
Type of Glass	As Code					Maybe

## **Certification of Laminated Glass Audit Issues**

### **Guideline Reference**

L.10

For certification to ANSI Z97.1-2004, weathering tests on laminated glasses shall be performed on the thinnest construction of all components in clear glass with clear plastics. Weathering tests shall only be required initially. Weathering data will be accepted from the glass fabricator, or a supplier, i.e. interlayer manufacturer.

### **CERTIFIED PRODUCTS KEY**

LTG	=	LAMINATED TRANSPARENT GLASS
LPG	=	LAMINATED PATTERNED GLASS
LSP	=	LAMINATED SPECIALTY PRODUCTS
(b)	=	POLY VINYL BUTRAL INTERLAYER
(ip)	=	IONOPLAST
(l)	=	LIQUID RESIN INTERLAYER
(p)	=	POLYETHYLENE TEREPHTHALATE
(f)	=	FLUORINATED ETHYLENE PROPYLENE INTERLAYER
(eva)	=	ETHYLENE-VINYL ACETATE

### **Issues:**

1. With the adoption of ANSI Z97.1-2004, weathering data is now required for full compliance to the standard.
2. It has also been assumed (and requested by some licenses) that laminated glass is certified per generic interlayer material, although no SGCC guideline clearly states this. It is sometimes unclear the equivalencies between generic interlayer's and if weathering data for one model of interlayer "covers" another.
3. Several interlayer suppliers have provided data or reports that they claim are "equivalent" to Z97 weathering although not strictly in accordance with Z97.
4. At present the SGCC audit does not validate the model, source or supplier of interlayer.
5. The above issues seem to be pointing to an "SGCC list of approved interlayer's", but there are risks in maintaining such a list. How does a product get on the list?

## Thickness Outside ASTM C1036

### From the last meeting:

#### 4.26.07.2      **Thickness Range Outside ASTM C1036**      (See Attachment # 12)

After discussion, a motion was made by Paschel/Wright to revise Guideline G.29 as follows:

*" G.29 - For the purposes of certification, the thickness requirements of Specification ASTM C1036, CEN or other nationally or internationally recognized thickness specifications shall apply.*

Vote: 9 Affirmative, 8 Negative, 0 Abstentions  
Motion Passed

### Request has been made to illustrate how this will work:

#### **ABC Glass; Anywhere, NY**

5826	COMPOSITE	3/8	10.0	TTG	UA
5827	COMPOSITE	(1)	15.0	TTG	UA
5828	COMPOSITE	(1)	3.0	TPG (s)	UA
5829	COMPOSITE	3/16	5.0	TPG (m)	UA

#### **CERTIFIED PRODUCTS KEY**

TTG	=	TEMPERED TRANSPARENT GLASS
TPG	=	TEMPERED PATTERNED GLASS
TBG	=	TEMPERED BENT GLASS
TBP	=	TEMPERED BENT PATTERNED GLASS
LTG	=	LAMINATED TRANSPARENT GLASS
LPG	=	LAMINATED PATTERNED GLASS
LSP	=	LAMINATED SPECIALTY PRODUCTS
OCG	=	ORGANIC COATED GLASS
OCH	=	ORGANIC COATED GLASS HYBRID
SPS	=	SAFETY PLASTIC SHEET
U	=	UNLIMITED SIZE CATEGORY
(1)	=	MEETS CEN THICKNESS TOLERANCES
(s)	=	SHALLOW PATTERN
(m)	=	MEDIUM PATTERN
(d)	=	DEEP PATTERN
(b)	=	POLY VINYL BUTRAL INTERLAYER
(ip)	=	IONOPLAST
(l)	=	LIQUID RESIN INTERLAYER
(p)	=	POLYETHYLENE TEREPHTHALATE
(f)	=	FLUORINATED ETHYLENE PROPYLENE INTERLAYER
(eva)	=	ETHYLENE-VINYL ACETATE
(c1)	=	CPSC CAT 1 ONLY
(IN)	=	INACTIVE

(Products bearing this designation have executed a Test Release Bond waiving testing for this certification period due to inactive production)

## **SGCC Laboratory Manual Review**

- ❑ SGCC Lab Manual review completed and approved per minute 4.26.07.4
- ❑ Since that time, Instruction L.7 added by J. Kent and M. Cody per request and manual distributed 7/17/07
- ❑ Further concern continues regarding the need to keep evidence of test failure criteria for both laminated and tempered (transparent and patterned)



**safety glazing certification council**

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**SGCC LAB MANUAL**  
**ISSUE DATE: May 17, 1994**  
**Revision: Oct 20, 2000**  
**July 17, 2007**

### **SGCC LABORATORY MANUAL**

SGCC's attempt is to include in this one document all of the directives and instructions that have been issued to the testing laboratories since the inception of the SGCC certification program for safety glazing materials. These instructions are intended to clarify and supplement testing conducted in accordance with ANSI Z97.1, CPSC 16 CFR 1201, or both specifications which is known as composite testing.

However, SGCC is dynamic and ever changing. We will continue to issue letters of instruction to the testing laboratories that add or delete from the instructions contained herein.

We welcome your constructive criticism and hope that you will not hesitate to advise us of any suggestions that may make this a more effective document.

Laboratories shall be aware of the responsibility they bear to the public in the testing of life safety materials; we know that you will strive to provide reliable accuracy and keep in mind your professional and ethical standards.

#### **GENERAL** (applies to all materials)

#### **Instruction G.1** (Revised 4/26/07)

One of the 2 below procedures shall apply for processing Sample Receipt Forms (SRF's):

1) Upon initial laboratory approval: When test samples are selected, SGCC will mail one SRF for each product selected and needing testing to the designated test laboratory. The SRF is to be matched with the test sample, completed and mailed to SGCC within three (3) days of the sample being delivered to the testing laboratory. SGCC will promptly review the SRF for completeness including test sample label information, and if appropriate authorize testing to commence. The SRF will then be returned to the test laboratory. In cases where any sample (except prototype) arrives without an SRF on hand, please contact the SGCC office and do not test the sample. SGCC will determine the status and advise you how to proceed.

2) Upon demonstration of competence and when approved by the SGCC Administrator: When test samples are selected, SGCC will mail one SRF for each product selected and needing testing to the designated test laboratory. The SRF is to be matched with the test sample and completed including label information as it appears on the test samples. The test laboratory shall determine if the label information complies with SGCC label requirements. When label information is in compliance, the laboratory may "self-authorize" and proceed directly with testing. When label information is not in compliance, SRF's shall be mailed to SGCC for label failure processing. Testing shall not proceed when label information is not in compliance, until authorized by SGCC.



**Instruction T.4**

The ten largest particles from each test specimen that is a possible test criteria or thickness tolerance failure must be kept for a period of thirty days.

**Instruction L.7** (Added 7/17/07)

When a possible test criteria or thickness tolerance failure is experienced for laminated glass either representative samples of the failed samples or photographs must be kept for a period of thirty (30) days. This is done to provide the SGCC participant opportunity to observe the nature of the failure first hand.

**RECOMMENDATION**

Delete both T.4 and L.7 and add new Instruction G.27

**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 test criteria or thickness tolerance failure must be kept for a period of (30) thirty days from report date. A shadowgraph shall also be developed (see Instruction T.5). For all laminated product failures, 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. Disposal of samples may occur sooner with written permission from SGCC after SGCC has received written permission from the SGCC participant.

**ALSO ADD:**

**TEMPERED GLASS** (*Applies to transparent and patterned tempered*)

*To be added/revised in the SGCC Lab manual*

## **SGCC Label Content**

1. Question was raised, if the Building code(s) require the “type of glass” on a label (presumably laminated or tempered) shouldn't also SGCC?

- Consider revision to SGCC label requirements (3rd sentence):

“These requirements are minimum requirements for SGCC Certification. It is the licensee’s responsibility to determine if other jurisdictions, standards and codes may have additional requirements such as type of glass.”

### **From April 2007 Minutes**

#### **4.25.07.13 SGCC Label Content and Testing**

(See Attachment #10) It was suggested to review the wording contained in ANSI Z26.1 for guidance. M. Cody offered to work with the SGCC Quick Action committee in further review of this issue.

### **SGCC Label Requirements**

Unless the SGCC® certification label is permanently affixed to each piece of safety glazing material, it is not covered by the SGCC® certification program.

The permanent label must contain the correct SGCC® number, ANSI Z97.1-2004 and/or 16 CFR 1201 (and category), the nominal thickness, the letter U or L indicating certified size and the ANSI impact class (A, B or C). (Revised 10/21/05)

These requirements are minimum requirements for SGCC Certification. Other jurisdictions, standards and codes may have additional requirements.

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.

The SGCC number can be used to identify both the “supplier” and “place of fabrication”. Refer to SGCC Guideline G.5 (Revised 10/21/05)

The permanent label must be affixed to certified products ONLY at the time and place of manufacture (except for situations covered by Guideline G.18 and as stated below. (Revised 10/25/01)

#### EXAMPLES

ABC Glass – Plant A (optional)  
16 CFR 1201 II  
ANSI Z97.1-2004  
1/4 U A SGCC 9999

ABC Glass – Plant A (optional)  
16 CFR 1201 II  
ANSI Z97.1-2004  
6mm U A SGCC 9999