



**safety glazing certification council**

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

**MINUTES OF SEVENTY-SEVENTH  
MEETING OF THE  
CERTIFICATION COMMITTEE  
OCTOBER 11 and 12, 2006  
RADISSON HOTEL  
CORNING, NY**

		<b>Date and Votes Present</b>	
		<u>10/11/06</u>	<u>10/12/06</u>
<b><u>Members and Alternates Present</u></b>			
AFG Fabrication	Mark Cody	1	1
AFG Inds., Inc	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	Daphine Pedreschi	1	1
Oldcastle Glass	Rick Wright	1	1
Oldcastle Glass CPG	Rick Wright	1	1
Val Temperbent	Richard Paschel	1	1
Val 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	Don Vild	1	1
Public Interest	Peter Weismantle	1	1
Public Interest	June Willcott	1	1
		17	17
		<b>Votes</b>	

**Guests**

Architectural Testing, Inc.	Scott Swaltek	Present	Present
ETC Labs	Ben Meunier	Present	Absent
ITS, Cortland	Deb Blanchard	Present	Absent
SQGTC	Rocky Shi Xinyong	Present	Present

**Legal Counsel**

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

AMS, Inc.	John Kent	Present	Present
AMS, Inc.	Brandy Sonnenburg	Present	Present

<b>Persons Present</b>	20	18
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10.11.06.1 The meeting was called to order at 1:20 by Chairman Mark Cody and a quorum declared. All present introduced themselves.

10.11.06.2 The minutes of the April 27 and 28, 2006 meeting were reviewed. A motion was made by Carmen/Willcott to approve the minutes as submitted.

Vote: Unanimous Affirmative  
Motion Passed

10.11.06.3 **Committee List**

(See Attachment #1)

In an effort to more clearly define the SGCC structure and process a list of working committees has been assembled.

10.11.06.4 **Board of Directors' Report - R. Paschel**

- A. The Board continues to be concerned with proposals made in the building code which affect safety glazing. In an effort to better understand the code process and the reasons for the submitted change proposals, SGCC will contact GICC to request an invitation to participate with GICC discussions.
- B. Funds have been approved for marketing and an SGCC ad will be placed in Key Communication's publication "Architects Guide to Glass and Metal".
- C. Discussion was conducted regarding possible candidates for the SGCC Board with an interest towards identification of new candidates who have not been on the Board in the past. Any participant who may be interested in consideration for nomination to the Board was encouraged to contact the nominating committee.

10.11.06.5 **Financial Report – E. Rodman**

(See Attachment #2)

10.11.06.6 **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 continues to be pursued. (See Attachment #4) Discussion continued regarding the level of enforcement of this policy. The SGCC Board is reviewing a separate policy that would provide protection from any potential litigation. Carmen, Cody volunteered to develop a policy for dealing with companies who either cannot obtain or may not have maintained their certificate of insurance policy up to date with SGCC.

10.11.06.7 **Administrator's Report – J. Kent**

(See Attachment #5)

**10.11.06.8 Quick Action Sub-committee Report**

There was no activity to report since the last meeting.

**10.11.06.9 China National Safety Glass Test Center and Architectural Safety Glass Certification in China**

Professor XinYong Shi (Rocky) of China National Test Center provided a presentation titled "SQGTC And Architectural Safety Glass in China". Professor Shi explained the capabilities of their facility and the process for certification and testing in China, and expressed an interest in cooperative efforts with SGCC. Anyone interested in a copy of the presentation may contact SGCC or Professor Shi.

**10.11.06.10 Testing Laboratory Status**

(See Attachment #6)

**10.11.06.11 Testing Issues**

- A. Requirements for a Professional Engineer (PE) – (See Attachment #7)  
Concern has been raised regarding SGCC's requirements for a PE's involvement with testing. It has been suggested that as currently worded, SGCC guidelines may conflict with state professional engineering codes. After discussion, a motion was made by Carmen/Paschel to modify existing SGCC guidelines to read, "testing shall be done in accordance with SGCC guidelines and reviewed by a professional engineer and each test report shall bear his/her seal and signature."

Vote: Unanimous Affirmative  
Motion Passed

- B. Impactor stop – (See Attachment #8)  
A number of SGCC test labs have experienced excessive breaking and damage to the test impactor when testing smaller size samples. The problem results when the impactor penetrates the smaller samples and then hits or wraps around the upper portion of the test sample frame. One proposal for fixing this problem was to add a "stop" behind the glass but it was felt that this could affect the breakage behavior of the glass. After discussion, a motion was made by Willcott/Carmen to change the minimum test sample size from 24 X 30 - inches to 24 X 42 – inches.

Vote: 14 Affirmative, 3 Negative, 0 Abstentions  
Motion Passed

After further discussion it was noted that SGCC currently has products certified smaller than the minimum 24 X 30 – inch size allowed by ANSI Z97.1-2004. It was stated that in all cases testing by the laboratories shall conform to ANSI Z97.1-2004 and CPSC 16 CFR 1201. This issue will be added to new business for discussion later in this meeting.

**10.11.06.12 Testing Laboratory Instructions**

At the last meeting SGCC agreed to review and update this document. Preliminary revisions were available at the meeting and were reviewed live with the group. The document shall be further updated and then distributed to all labs and subcommittee members requesting their review. Any further revisions shall be circulated to the subcommittee for finalization by the next meeting.

10.11.06.13 The meeting was recessed at 5:05 pm

10.12.06.1 The meeting was reconvened at 8:30 am

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

(See Attachment #9)

10.12.06.3 **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. It was agreed to continue to maintain this information.

10.12.06.4 **Quality Assurance Program Requirements**

(See Attachment #11)

Upon implementation and further review of these recently revised requirements, it was agreed that the wording needed further clarification. The document was reviewed live at the meeting and Attachment #11 reflects the results of those revisions. A motion was made by Paschel/Cody to accept the Quality Assurance program requirements as revised.

Vote: 16 Affirmative, 1 Negative, 0 Abstentions  
Motion Passed

10.12.06.5 **Certification of Laminated Glass**

(See Attachment #12)

The attached document was reviewed and the various proposals as presented discussed. Concern was raised over CPSC's implied requirement to test various nominal thicknesses, specifically CPSC 16 CFR 1201.4(a)(3). The possibility of contacting CPSC for clarification was discussed. After further guidance from the full group, the sub-group agreed to further develop a single proposal for the next meeting.

10.12.06.6 **Old Business**

The concept of grouping thicker tempered glass products was raised for discussion. It was the feeling of the group that discussion of this topic should be deferred until after the laminated glass mater is concluded.

**10.12.06.7 New Business**

Discussion continued from minute 10.11.06.11. (B) regarding minimum test size. It was again noted that currently ANSI Z97.1-2004 established a minimum test size of 24 X 30 – inches, thus precluding SGCC from certifying products at sizes less than these dimensions. After lengthy discussion, a motion was made by Carmen/Moore to direct the Administrator to fully enforce certification to the minimum test size of 24 X 30 – inches of ANSI Z97.1-2004.

Vote: 10 Affirmative, 3 Negative, 4 Abstentions  
Motion Passed

It was noted that companies may still certify smaller sizes to CPSC only. Additionally, it was recommended this issue be further addressed going forward. Possible considerations in the resolution of this matter might be:

1. Testing of composite make-ups (2 or more samples mounted in a common frame)
2. Certification to ANSI Z97.1-“84/94”
3. Certification to the 2004 version of ANSI but with a footnote of explanation/limitations.
4. Request an interim interpretation/waiver from the ANSI committee

**10.12.06.8 Next Meeting**

It was agreed that the next meeting, subject to availability, would be in Chicago, IL at the offices of Schiff Hardin on April 25<sup>th</sup> and 26<sup>th</sup>, 2007.

**10.12.06.9** The meeting was adjourned by the chair at 12:25 pm.



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**Certification Sub Committee Structure**

<b>Committee: Quick Action</b>		<b>Chair: Mark Cody</b>
<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	Richard Paschel	
Certification Committee Chair	Mark Cody	
Public Interest	June Willcott	

<b>Committee: Nominating</b>		<b>Chair: Don Vild</b>
<b>Scope:</b> Research and presentation of slate of SGCC Board nominees and officers for the annual SGCC participants meeting.		
<b>Members</b>		
Kevin Olah		

<b>Committee: Time, Place and Marketing</b>		<b>Chair: Elaine Rodman</b>
<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>Committee: Laboratory and QA Inspection</b>		<b>Chair: Kevin Olah</b>
<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	
Cliff Monroe	Don Vild	
Tim Moore	Mark Cody	

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





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## Annual Financial Comparison Summary

<b>Revenues</b>	<b>2001/2002</b>	<b>2002/2003</b>	<b>2003/2004</b>	<b>2004/2005</b>	<b>2005/2006</b>
Administrative	\$201,037	\$259,563	\$238,383	\$300,770	\$306,298
Testing	\$263,298	\$336,961	\$360,036	\$429,682	\$317,424
Business Account Income	N/A	\$14,168	\$30,959	\$32,585	\$38,700
Impact Bag Revenue	N/A	N/A	N/A	N/A	\$1,100
Test Labs Under Five	N/A	N/A	N/A	N/A	\$2000
Interest Income	\$16,595	\$10,960	\$9,276	\$9,057	\$18,093
<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>Expenses</b>	<b>2001/2002</b>	<b>2002/2003</b>	<b>2003/2004</b>	<b>2004/2005</b>	<b>2005/2006</b>
Administrative	\$201,037	\$259,563	\$238,383	\$300,770	\$306,298
Testing	\$263,298	\$290,445	\$327,036	\$429,682	\$317,424
Accounting	\$3,000	\$3,000	\$3,000	\$3000	\$3000
Legal	\$10,664	\$14,999	\$16,832	\$20,160	\$17,538
Board Meetings	\$8,689	\$8,638	\$9,383	\$9,877	\$9,927
Miscellaneous	\$773	\$8,137	\$1,576	(\$163)	\$2,826
Insurance	\$3,560	\$4,450	\$5,340	\$5,607	\$5,607
Web Page	\$4,215	\$309	\$548	\$3,689	\$1,925
Bank Charges	N/A	N/A	N/A	N/A	\$1,558
Marketing	\$22,356	\$20,215	\$20,592	\$6,783	\$0
<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>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>Net Assets</b>	<b>\$129,349</b>	<b>\$141,245</b>	<b>\$157,209</b>	<b>\$149,898</b>	<b>\$167,410</b>

<b>Investments</b>	<b>Interest Rate</b>	<b>Date of Maturity</b>	<b>Current Value as of 10/9/06</b>
#1 First National Bank of Dryden	2.58%	5/28/08	\$76,119.80
#3 National City Bank	3.72%	4/17/07	\$97,725.25
#6 MBNA Investor Services	3.73%	12/11/06	\$54,896.90
#7 Redwood National Bank	2.27%	11/14/06	\$96,096.36
#8 Community Investment Services	2.25%	6/21/07	\$105,445.00

<b>SGCC Banking Accounts</b>	
<b>Account</b>	<b>Balance as of 10/9/06</b>
HSBC Checking Account	\$997.35
HSBC Savings Account	\$1,119.80
WSB Savings Account	\$254,000.15



**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 2006

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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	07/21/06	09/26/06	09/26/06	George Gonzalez
ACI Distribution	10/01/06		10/20/05	
AFG Industries, Inc.	01/01/07		06/20/06	
All Team Glass & Mirror, Ltd.	08/24/06	09/15/06	10/20/05	Lee Timoll
American Shower Door	02/28/06	06/01/06	06/01/06	Tom Hori
		09/26/06		
AMSCO Windows	01/01/07		01/27/06	
Anlin Industries	08/01/07		08/07/06	
Anthony International	01/01/07		01/31/06	
Arch Aluminum & Glass Co.	04/28/07		05/09/06	
Bendheim Company, Inc.	01/11/07		05/24/06	
Berkowitz, J.E.	05/01/07		05/19/06	
Binswanger Mirror	10/01/06	6/22/06	6/22/06	Benny Walker
		09/27/06		
Bronco Industries, Inc.	02/05/07		08/24/06	
Cameron Glass, Inc.	07/01/07		07/15/06	
Cardinal IG	10/01/06		05/12/06	
Cat I Manufacturing, Inc.	11/08/07		01/13/06	
Changshu Hard Glass	07/21/05	09/09/05	07/29/04	
		01/10/06		
Changshu Yili Building Material Co. Ltd.				
Changshu Zhongcheng Building Material Co., Ltd.	04/26/07		08/07/06	
Cheil Glass Industrial Co., Inc.	12/10/05	01/10/06	12/21/04	Yong Kwang Jung
		06/01/06		
Chicago Tempered Glass, Inc.	10/15/06		06/01/06	
Cho Kwang Glass Co. Ltd.	11/25/06		06/01/06	
Coastal Glass Distributors	10/01/06		10/01/05	
Colonial Mirror & Glass Corp	05/31/07		07/14/06	
Commercial Insulating Glass Co.	06/01/07		06/22/06	
Consolidated Glass Corporation	11/15/07		12/14/04	
Contour Industries, Inc.	01/01/06	03/28/06	12/14/04	Scott Stidham
		08/04/06		
Contractors Wardrobe	03/01/07		05/30/06	
Coral Industries, Inc.	12/31/06		01/09/06	
Craftsman Tempered Glass Division of Glass Wholesalers	08/01/06	09/15/06	02/02/06	Bob Larson
Day Specialties Corporation AGC America, Inc.	01/01/07		08/15/06	
Desert Glass Products, Inc.	10/25/05	01/10/06	02/09/05	Jerome Ellis
		06/01/06		
Dlubak Corporation	07/07/07		08/21/06	
Dongli Tempered Glass	09/30/05	10/11/05	01/06/05	
		01/10/06		
Downey Glass Industries, LLC	11/08/06		06/22/06	
Eckelt Glas GmbH	01/01/05	04/14/04	04/13/04	
		06/29/04		
Edge Seal Technologies	01/07/07		01/11/06	
EFCO Corp.	10/01/07		09/26/06	
Engineered Glass Products L.L.C.	06/01/07		06/05/06	
FLT Glass	06/28/06	08/07/06	07/13/05	Dan Haney
FTG of NC LLC	12/21/06		01/27/06	
Galaxy Glass Corp., Inc.	11/21/04	01/04/05	01/31/04	
		03/25/05		
Gemtron Corp.	09/30/06		10/31/05	
GGI Glass Distributors Corp.	01/10/05	03/25/05	04/25/04	
		08/08/05		
		8/15/05		
		SGCC		

Company	Cert. Exp.	Corresp	Update	Contact Name
Glass Design of Miami, Inc.	07/15/06	08/07/06	06/01/06	Ernesto Garcia
Glass Dynamics, Inc.	12/10/06		01/26/06	
Glass, Inc.	12/19/06		01/18/06	
GMS Tempering Corp.	04/05/07	06/01/06 09/27/06	06/01/06	Eleyne Gonzalez
Goldray, Inc.	05/22/07		06/06/06	
Grand Glass Corporation	06/22/07		08/11/06	
Guardian Industries/Fab	06/01/07		06/05/06	
Haida Safety Glass, Ltd.	04/06/07		04/19/06	
Industrial Tempering Glass	08/24/07	06/01/06 09/27/06	06/01/06	Alexander Weinberger
Intex Glass (Xiamen) Co., Ltd.	08/01/07		08/15/06	
Kohler Company	11/01/04	05/19/06 08/04/06		Doug Glisson
Laurier Glass Ltd.	02/04/07		04/05/06	
Mid Ohio Tempering	08/24/07		09/08/06	
Milgard Tempering, Inc.	06/30/06	08/03/06	06/28/04	Theresa Braund
Mirror Factory Inc.	04/01/07		03/27/06	
MirrorCrafters Custom Beveling, Inc.	05/30/07		06/12/06	
Multiver	12/03/06		01/18/06	
Nashville Tempered Glass Corp.	12/01/06		01/24/06	
Oldcastle Glass	09/01/07		09/08/06	
Patio Enclosures, Inc.	07/05/07		07/14/06	
PDC Glass & Metal Services	08/24/07		09/08/06	
PGT Industries	01/01/07	01/10/06 06/01/06	12/29/04	Rupam Modi
Philips Products, Inc.	06/01/07		06/12/06	
PPG Industries, Inc.	Self-insured		12/04/96	
Prelco, Inc.	11/30/06		01/17/06	
PT Sinar Rasa Kencana	07/10/06	08/07/06	03/20/05	Robert Deeb
PT Surya Adhitia Fortuna Glass	07/10/06	08/07/06	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.	11/9/06		06/01/06	
Quaker Window Products	04/01/07		03/30/06	
Quality Glass & Mirror Inc.	09/17/06		09/26/05	
SaintGobain Glass Mexico S.A. de C.V.	07/01/05	09/09/05 01/10/06	10/26/04	
Shanghai Yaohua Pilkington Glass Co.	09/28/06		10/11/05	
Shaw Glass Co., Inc.	12/31/06		01/19/06	
SIGCO, Inc.	08/30/07		09/21/06	
Simonton Windows	04/01/07		06/15/06	
Sovis North America	03/01/07		03/21/06	
Spec-Temp, Inc.	10/15/06		08/10/06	
Specialty Building Products	04/01/07		06/20/06	
Swift Glass Co., Inc.	01/01/07		01/11/06	
Syracuse Glass Co., Inc.	08/06/07		08/16/06	
Techni-Glass, Inc.	09/22/07		09/08/06	
Tecnoglas	09/12/06		01/10/06	
Temperbent Glass	03/01/07		05/19/06	
Tempered Glass, Inc.	08/24/07		09/08/06	
TianJin Dong Sung Glass	12/27/05	03/27/06 08/04/06	06/21/05	Jimmy Kim
TRACO	04/01/07		06/12/06	

<b>Company</b>	<b>Cert. Exp.</b>	<b>Corresp</b>	<b>Update</b>	<b>Contact Name</b>
Triple Seal Ltd.	02/28/06	03/28/06 08/04/06	04/07/05	David Underhill
United Plate Glass Co., Inc.	01/01/07		01/31/06	
Val S.P.A.	12/31/06		06/01/06	
Vetzeria Valentini S.R.L.	12/31/06		06/06/06	
Vidrieria Argentina	04/01/06	05/31/06 08/04/06	05/31/05	Ernesto Giraldi
Vidrios Lirquen	03/31/05	05/05/05 08/08/05 8/15/05 SGCC	09/23/04	
Viracon, Inc.	03/01/07		03/06/06	
Virginia Glass Products Corp.	08/01/07		08/15/06	
Vitemco/Glasswall LLC	02/01/07		03/27/06	
Vitro Columbia S.A.	03/03/07		09/26/06	
Viwinco, Inc.	03/01/07		01/11/06	
Westshore Glass	06/01/07		06/22/06	
XYG Glass	01/01/07		08/16/06	
Zhejiang Gelaweibao Glass Technological Co.	05/01/07		06/01/06	

# **ADMINISTRATIVE REPORT**

## **SGCC October Meeting**

**October 11& 12, 2006**

### **July 1, 2006 Certified Products Directory (CPD)**

<i>Cut-off Date</i>	<i>Copies</i>	<i>Subscription List Mailing</i>
<b>July 1, 2006</b>	<b>2200</b>	<b>2129</b>

**Certification ~~Removed~~ Since Publishing July 1, 2006 CPD**

#### **ANSI Program**

**Guardian Industries Canada Corp.; Rexdale Ontario**

SGCC #2811 5/16-inch LTG

SGCC #2812 3/8-inch LTG

SGCC #2813 1/2-inch LTG

#### **CPSC Program**

None

#### **Composite Program**

**Jiangyin Jingcheng High Quality Glass; Jiangyin City, China**

SGCC #2814 1/8-inch TTG

SGCC #2856 1/4-inch TTG

SGCC #2897 3/8-inch TTG

### **Certified Products ~~NOT~~ in July 1, 2006 CPD**

#### **ANSI Program**

None

#### **CPSC Program**

None

#### **Composite Program**

**Anlin Industries; Clovis, CA**

SGCC #3077 5/32-inch TPG

**Cardinal TG; Chahalis, WA**

SGCC #3455 1/8-inch TTG

SGCC #3456 5/32-inch (3.9mm) TTG

SGCC #3457 5/32-inch (4.0mm) TTG

SGCC #3458 3/16-inch TTG

SGCC #3459 1/4-inch TTG

**Cardinal LG; Ocala, FL**

SGCC #3505 1/8-inch TTG

SGCC #3506 5/32-inch TTG

SGCC #3507 3/16-inch TTG

SGCC #3508 1/4-inch TTG

SGCC #3509 7/32-inch LTG

SGCC #3510 1/4-inch LTG

SGCC #3511 5/16-inch LTG

SGCC #3512 3/8-inch LTG

SGCC #3513 1/2-inch LTG

**Glass Dynamics, Inc.; Stoneville, NC**

SGCC #3382 5/16-inch TTG

SGCC #3383 5/32-inch TTG

**XYG Glass; GuangDong, China**

SGCC #3550 5/8-inch LTG

SGCC #3551 7/8-inch LTG

**Name Changes since July 1, 2006 CPD****TemperBent Glass, LP; Alsip, IL**

has changed its name to

**Val Temperbent, LLC****Corrections since July 1, 2006 CPD****AFG Fabrication Commercial; Richmond, VA**

SGCC #2480 5/32 TTG is now Inactive

**Oldcastle Glass Moorestown; Moorestown, NJ**SGCC #3189 should be 1/4-inch TPG **not** 7/32"**Oldcastle Glass, Albertville**SGCC #3111 is 3/4-inch TTG **not** 1/8" TTGSGCC #3110 is 5/8-inch TTG **not** 3/4 " TTGSGCC # 3112 is 5/32-inch TPG **not** 3/16" TPGSGCC #3113 is 3/16-inch TPG **not** 7/32" TPGSGCC #3114 is 7/32-inch TPG **not** 5/8" TPG**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)
No. of Participating Plants	164	166	199	206
No. of Offshore Plants (Non US & Canada)	25	30	32	31
No. of Licensees	100	102	105	106
Total Certified Products	867	894	1196	1276
ANSI Only	125	121	108	117
CPSC Only	58	51	62	50
COMPOSITE	684	722	1026	1109

**SGCC Website Report**

<b><u>2006</u></b>	<b><u>Total Visitors</u></b>	<b><u>Most Visited Section</u></b>	<b><u>2<sup>nd</sup> Most Visited</u></b>	<b><u>3<sup>rd</sup> Most Visited</u></b>	<b><u>Downloads of CPD</u></b>	<b><u>Top Visiting Country</u></b>
<b><u>April</u></b>	<b><u>3,047</u></b>	Who's Certified	Approved Labs	Contact SGCC	247	China
<b><u>May</u></b>	<b><u>3,163</u></b>	Who's Certified	About SGCC	Approved Labs	251	China
<b><u>June</u></b>	<b><u>3,126</u></b>	Who's Certified	Approved Labs	About SGCC	248	China
<b><u>July</u></b>	<b><u>2,816</u></b>	Who's Certified	Initial Certification Process	Approved Labs	234	Canada
<b><u>August</u></b>	<b><u>2,306</u></b>	Who's Certified	Approved Labs	Initial Certification Process	248	China
<b><u>September</u></b>	<b><u>2,598</u></b>	Who's Certified	Approved Labs	Initial Certification Process	198	China

## SGCC Testing Laboratory Status (as of 9/29/06)

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>Date of Initial Approval</b>	<b>Date of Last Inspection</b>	<b>Approved by SGCC</b>	<b>Signed Agreement</b>	<b>Lab fee PAID (Inv 1/19/06)</b>
Architectural Testing Inc.	St. Paul, MN	10/6/92	11/8/05	4/14/05	9/9/04	
Architectural Testing Inc.	York, PA	6/30/85	5/2/05	4/14/05	10/26/04	
Architectural Testing Inc.	Fresno, CA	11/18/97	9/22/06	4/14/05	9/9/04	
Architectural Testing Inc.	Southlake, TX	7/1/04	3/16/06	4/14/05	6/25/04	\$1000 - Pd
Bowser-Morner, Inc.	Dayton, OH	1991	4/25/06	4/14/05	2/3/06	
Construction Consulting Laboratory West	Ontario, CA	11/19/97	1/27/06	4/14/05	9/7/04	
ETC Laboratories	Rochester, NY	3/8/94	10/13/05	4/14/05	7/30/04	
Fenestration Testing Laboratories	Hialeah, FL	10/2/97	4/13/05	4/14/05	10/22/04	
Intertek	Duluth, GA	Approval withdrawn 7/1/06				
Intertek	Cortland, NY	1981	6/22/04	4/14/05	6/23/04	
Intertek	Middleton, WI	Approval withdrawn 7/1/06				\$1000 - Pd Refunded
Quality Testing, (Formerly Performance Testing, Inc.)	Everett, WA	10/14/97	8/11/04	4/14/05	2/2/06	
Rone Engineers, Ltd.	Dallas, TX	3/31/00	3/16/06	4/14/05	7/14/04	\$1000 - Pd
Stork-Patzig Testing Laboratories	Des Moines, IA	6/11/99	5/13/05	4/14/05	4/4/05	
Stork-Southwestern Laboratories	Houston, TX	1/15/90	3/13/06	4/14/05	7/15/04	



## **Testing Issues - #1 (Professional Engineer)**

**Issue:** It has been suggested that the SGCC requirement for a professional engineer's involvement are unusual, not required by the test standards, and may violate PE guidelines, and as such should be modified or eliminated.

**References:** SGCC Laboratory Agreement:  
 "All testing is conducted under the direct supervision of a professional engineer registered in the State in which the testing is performed and each test report shall contain his signature and seal."

SGCC Testing Instructions guideline reference:

### **Instruction G.6**

Testing shall be done under the direct supervision of a professional engineer registered in the state in which testing is done, and each test report shall bear his seal and signature.

**Suggestion:**

- 1) Eliminate
- 2) Change these guidelines to allow either, PE supervision, signature and seal or Lab to be accredited to ISO Guide 17025.
- 3) Modify – "Testing shall be done under the ~~direct~~ supervision of a professional engineer registered in the state in which testing is done, and each test report shall bear his ~~seal and~~ signature.

### **Supporting Argument:**

(Excerpt from Wisconsin Professional Engineer Administrative Code)

A-E 8.02 Intent. The intent of the examining board in adopting this chapter is to establish rules of professional conduct for the professions of architecture, landscape architecture, professional engineering, designing and land surveying. A violation of any standard specified in this chapter may result in disciplinary action under ss. 443.11 to 443.13, Stats.

A-E 8.10 Plan stamping. (1) No architect, landscape architect, professional engineer or designer may sign, seal or stamp any plans, drawings, documents, specifications or reports for architectural, landscape architectural, professional engineering or design practice which are not prepared by the registrant or under his or her personal direction and control.

(5) "Supervision," "direct supervision," "responsible charge," and "direction and control," mean direct, personal, active supervision and control of the preparation of plans, drawings, documents, specifications, reports, maps, plats and charts. The terms do not include any of the following: (a) Indirect or casual supervision. (b) Delegation of any decision requiring professional judgment. (c) Casual review or inspection of prepared plans, drawings, specifications, maps, plats, charts, reports or other documents. (d) Mere assumption by an architect, landscape architect, professional engineer, designer or land surveyor of responsibility for work without having control of the work. (e) Assuming charge, control or direct supervision of work in which the architect, landscape architect, professional engineer, designer or land surveyor does not have technical proficiency.

*"These are very similar to the requirements in all the states where PE's are licensed. In practice a PE signature and seal is only legally required on documents that are submitted to a government body as a matter of public record. This would include such things as plans for buildings governed by code, public works projects such as bridges and highways, etc."*

## **Testing Issues - #2 (Impactor Stop)**

**Issue:** We've had several accidents lately with our safety glazing impact bags separating from the wire rope they are attached to. The problem stems from testing smaller size safety glazing samples. We use a custom fixture that is bolted inside our 34x76 frame. When the glass breaks the bag tries to wrap itself up and around this fixture and it snaps the threaded rod holding the bag together. For safety reasons I have implemented a crude fix to prevent any injuries to our technicians. We have added a ram inside of the frame positioned about 3" from the glass surface. If the glass breaks then the bag hits the rams and stops instead of continuing to travel up and over the fixture. This ram only needs to be used with the smaller size samples. There are no issues with the 34x76 samples. I have attached a photo of this ram for your reference.

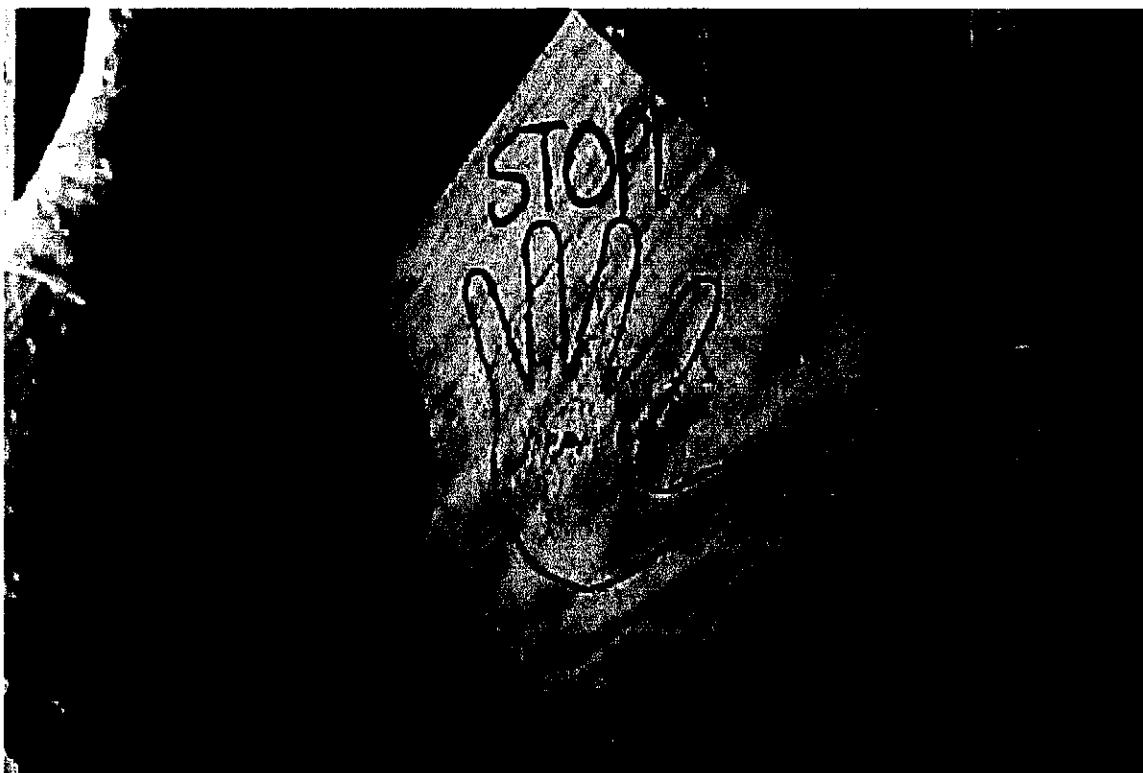
I doubt that this modification will impact the results of the testing, but I'm open for suggestions to streamline or improve the design or even a new design. I wanted you to give you a heads up in case you see this device being used on future audits.

**References:** ANSI and CPSC reference "36 inch minimum from wall"

**Suggestion:** Add a guideline to the SGCC Testing Laboratory Instructions

To prevent the impactor bag from "wrapping" around the sub-frame when testing samples smaller than 34 X76 – inches, it shall be permissible to mount a "stop" or "ram" at least 3 – inches from the back surface of the glass that the impactor bag shall hit upon breakage of the glass.

**ATTACHMENT # 8**



## **ASC Z97.1**

Update  
October 2006  
SGCC  
Corning, NY

## **ASC Activities Update**

- Meeting August 10, 2006 – Baltimore, MD
- Activities and Resolutions
  - Administrative and Audit Review
  - GISC election from ASC
  - Membership Drive
  - Membership Reclassification
  - Website Development
  - New Standard Path Forward
  - Task group formation
  - Timeline Developed

## **Glazing Industry Secretaries**

- Current Members
  - 2 Positional
    - Kevin Olah (Chair)
    - Julie Schimmelpenningh (Sec)
  - 2 GICC
    - Greg Carney\* (GANA)
    - Darrell Smith\* (IWFA)
  - 1 ASC Member
    - Rick Wright\*(Oldcastle Glass)

\*need designated alternates

## **Membership**

- Total Membership Breakdown
  - 73 Participants
  - 43 Primary
  - 26 Alternates
  - 2 Observers
- Modification to Membership classification
- New Members being balloted

## ATTACHMENT # 9

### Current Proposal - Categories

- User: Party that purchases/uses safety glazing from a fabricator/distributor for installation in consumer owned materials or further procurement (i.e.: window company, glazier, government etc...)
- Component Manufacturer: Manufactures materials used to make safety glazing. (i.e.: Primary Glass, Plastics, Films, Interlayers etc..)
- Fabricator/Distributor: Produces, manufactures, fabricates and/or distributes safety glazing (i.e.: Laminators, Retail, Film Installers etc...)
- Professional Society/Trade Organization: Organization or society that has members with interest in safety glazing or has influence in product use areas (i.e.: Film Associations, Glass Associations, Model Building Codes etc...)
- Testing Lab: Facility that has interest due to qualification, certification and test procedures related to safety glazing.
- General Interest: All others not affiliated with any above classification or public interest parties.

### Proposed Task Groups

- **Scope (Block)**
  - To review and establish the purpose and limitations of the standard.
  - Objectives:
    - Single or Multiple standard(s) to cover products
    - Retention/Containment Rating/Classification
    - Harmonization with other standards
    - Insulating Glass Testing
    - Product substitutions
- **Testing Requirements and Acceptance Criteria (Carney)**
  - Update and enhance testing requirements and acceptance criteria of the standard.
  - Objectives:
    - Testing all products to failure
    - Center Punch Fragmentation Test Inclusion
    - Mode of Breakage Interpretation
    - Ball drop testing for QC of Laminated

### Proposed Task Groups

- **Label Information (Wright)**
  - Review and update existing labeling requirements of the standard.
  - Objectives
    - Cutting and Labeling Laminated Glass
    - Plastics & Films
    - Thickness
- **Reference Standards (Grimes)**
  - Review and update existing reference standards.
  - Objectives
    - Weathering Requirement Update

### ASC Z97.1 Timeline

- January 2009 – Deadline to submit what has been updated for the standard. Any unfinished tasks will be carried over to the next revision cycle.
- October 2008 – Face to Face meeting to review full document for ballot.
- June 30, 2008 – All task group ballots for this cycle must be out.
- March 2008 – Label and Reference Standard task groups to be complete (ballot between Mar 08 and June 30)
- October 2007 – Testing Requirements to be completed (ballot between Oct. 07 and March 08)
- March 2007 - Scope to be completed (ballot between March 2007 and October 2007)

## Program Testing Results

		2000	2001	2002	2003	2004	2005	F06
<b>Selections</b> (Certification Period)	Total	1281	1373	1470	1536	1620	1729	968
	Participant	925 (72)	755 (55)	627 (43)	365 (24)	682 (42)	925 (54)	359 (37)
	Inspector	356 (28)	618 (45)	843 (57)	1171 (76)	938 (58)	804 (46)	609 (63)
	Total Tempered Products						1643 (95)	899 (93)
	Total Laminated Products						86 (5)	69 (7)
<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)	53 (5.5)
	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)	45 (85/4.6)
	Inspector Selected	14 (67/1.1)	8 (24/.6)	5 (19/.4)	14 (45/.9)	12 (33/.7)	11 (35/.6)	8 (15/.9)
	34x76	20 (95/1.6)	30 (91/2.2)	23 (88/1.6)	16 (52/1)	25 (69/1.5)	30 (97/1.7)	51 (96/5.3)
	Odd Size	1 (5/.1)	3 (9/.2)	3 (12/.2)	14 (45/.9)	6 (17/.4)	0	2 (4/.2)
	16x30			0	1 (3/.1)	5 (14/.3)	1 (3/.1)	0
Tempered Failures					24 (67/1.5)	25 (81/1.5)	38 (72/4)	
Laminated Impact Failures					4 (11/.2)	5 (16/.2)	6 (11/.6)	
Laminated Boil Failures					8 (22/.5)	1 (3.2/.1)	9 (17/.9)	

**QUALITY ASSURANCE PROGRAM**

SGCC® requires licensees to have a working quality assurance program for the fabrication of safety glazing. Compliance to quality assurance requirements will be validated at the first plant inspection after products are certified. Adherence is verified during twice per year plant visits. These requirements were adopted to improve the overall quality of safety glazing products in the program. *These requirements are in addition to the ANSI and CPSC compliance testing required by the SGCC certification program. The intent is to enhance the quality of products produced in the interim production periods between test cycles. Although a quality assurance program is a fundamental element of good fabrication practices, only successful testing to ANSI Z97.1-2004 and CPSC 16 CFR 1201 is valid proof of compliance with these standards.* A licensee's quality assurance program, as a minimum, must have the following elements:

1. A Quality Manual – a document that identifies, describes and contains the workings of the quality system.
2. A quality system representative – the designated point of contact for the quality system.
3. Production testing:
  - a. Test procedures
    - i. Tempered
      1. Center punch test (For example GANA TD 101-04) and/or impactor test (For example ANSI Z97.1-2004, CPSC 16 CFR 1201)
    - ii. Laminated **(the following are examples)**
      1. Pummel test (Recommend contacting interlayer supplier for guidance)
      2. Boil test (For example ANSI Z97.1 and/or CPSC 16CFR1201)
      3. Ball drop test (For example GANA LD 100-06)
  - b. Frequency (as a minimum)
    - i. Tempered
      1. First of each product thickness per shift
      2. Additional testing based upon square footage produced
    - ii. Laminated
      1. Based upon process, products produced and square footage, consult your interlayer supplier for guidance
  - c. Documentation of product testing and retention of product testing records for at least 10 years.

## Proposal for Certification of Laminated Glass

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

### Proposal #1 (Three Categories):

Certification of laminated glass shall fall within three (3) thickness categories based on overall nominal thickness.

**Categories:** (See table below):  
 Light (L) =  $\leq 0.375$  ( $\approx 10\text{mm}$ )  
 Medium (M) =  $0.376 - 0.694$  ( $\approx 10-18\text{mm}$ )  
 Heavy (H) =  $\geq 0.695$  ( $\approx 18\text{mm}$ )

Designation	Min		2 lites with .030 interlayer		Min	Max	Categories	
	Min	Max	Min	Max			Min	Max
single	0.085	0.101	0.200	0.232	Min RED	0.200	0.200	
2.5mm	0.091	0.106	0.212	0.242				
lami	0.102	0.114	0.234	0.258				
2.7mm	0.098	0.114	0.226	0.258				
1/8"	0.115	0.134	0.260	0.298				
3mm	0.110	0.126	0.250	0.282				
5/32"	0.149	0.165	0.328	0.360				
4mm	0.150	0.165	0.330	0.360	Max RED	0.360	0.375	
3/16"	0.180	0.199	0.390	0.428	Min BLUE	0.390	0.376	
5mm	0.189	0.208	0.408	0.446				
7/32"	0.200	0.218	0.430	0.466				
5.5mm	0.209	0.224	0.448	0.478				
1/4"	0.219	0.244	0.468	0.518				
6mm	0.228	0.244	0.486	0.518				
5/16"	0.292	0.332	0.614	0.694				
8mm	0.303	0.326	0.636	0.682	Max Blue	0.682	0.694	
3/8"	0.335	0.406	0.700	0.842	Min GRN	0.700	0.695	
10mm	0.382	0.406	0.794	0.842				
1/2"	0.469	0.531	0.968	1.092				
12mm	0.461	0.484	0.952	0.998	Max GRN and >		and greater	

### Guidelines:

- 1) Initial testing shall be on the thinnest interlayer and thinnest overall thickness produced within the thickness category and shall certify all overall thickness's of equal or greater interlayer thickness within the thickness category and generic type of interlayer.
- 2) Each generic type of interlayer shall be certified separately (i.e. PVB, Ionoplast, Liquid).
- 3) Any interlayer supplier within a generic category shall be certified.
- 4) For ongoing testing SGCC shall select one make-up in each category.
- 5) SGCC Selection and testing shall be once per year.
- 6) Delete current SGCC guideline L.3, L.4, L.7(first par.).
- 7) SGCC Labeling guidelines shall apply with the addition of the thickness category.



**Sample CPD Listing:**

SGCC#	TEST STD	INCH	MM	TYPE	MAX SIZE	ANSI CLASS
5555	Composite	L	-	LTG (b)(.015)(C1)	U	B
6666	Composite	L	-	LTG (b) (.030)	U	A
7777	Composite	M	-	LTG (b) (.030)	U	A
8888	Composite	H	-	LTG (b) (.030)	U	A
9999	Composite	L	-	LTG (l) (.030)	U	A

- Issues to Resolve:**
- 1) CPSC 16 CFR 1201.4(c)(2) "Specimens shall be tested for each nominal thickness offered by the manufacturer."
  - 2) Do we provide a fractional or metric nominal value, or do we just list the thickness category? The way the current SGCC database is structured, we need to provide a metric nominal thickness.
  - 3) Are 0.015 interlayer equivalencies adequately addressed (If someone tests and passes Impact Class A with 0.015, are they allowed to certify all within that category? Should we state 0.015 is tested separately from 0.030 and greater?

**Proposal #2 (2 Categories):**

Upon further review of proposal #1 it was notes that as of F06 the following applies:

Total Laminated Certified Products: 96  
 Total Laminated 12mm or greater: 17 (18%)  
 Total Laminated 16mm or greater: 2 (2%)

In Proposal #1 we are creating a category (H) (>18mm) that perhaps no one will use, or need. We then looked at failure data.

<b>Since 2004, there have been 15 laminated glass impact failures</b>			
Thickness	Number of failures	Size	Interlayer
5/32	2	34 X 76	(.015) (b)
7/32	1	34 X 76	(.030) (b)
1/4	1	16 X 30	(.030) (b)
1/4	1	34 X 48	(.030) (l)
1/4	1	34 X 76	(.015) (b)
1/4	7	34 X 76	(.030) (b)
9/32	1	20 X 30	(.030) (l)
1/2	1	34 X 48	(.030) (l)

