safety glazing certification council P.O. BOX 730 SACKETS HARBOR, N. Y. 13685

PHONE 315-646-2234 FAX 315-646-2297

Mamhars and Altarnatas Present

MINUTES OF NINETY-FOURTH MEETING OF THE CERTIFICATION COMMITTEE & PARTICIPANTS MEETING SEPTEMBER 29th - 30th, 2021 **VIRTUAL**

Date and Votes Present

Members and Alternates Present	Date and Votes Present		
		9/29/2021	9/30/2021
All Weather Windows	Anuj Behl	Х	Х
Anthony International	Donald Sokol	Х	Х
Cardinal Glass	Bernie Herron	Present	Present
Cardinal Glass	Mark Cody	Х	Х
Cardinal Glass	Randy McCoy	Present	Absent
Cardinal Glass	DJ Weil	Present	Present
Cardinal Glass	Michelle Phan	Present	Present
FG Glass Industries Pvt Ltd	Rohit Chavan	Х	Х
Guardian	Yasser Elsewaifi	Х	Absent
Intigral, Inc.	Adina Dobre	Present	Present
Intigral, Inc.	Mark Hutchinson	Х	Х
Intigral, Inc.	Allen Feltes	Present	Present
Intigral, Inc.	Mike Greci	Present	Present
Intigral, Inc.	Rob Rhodes	ob Rhodes Present	
Nashville Tempered Glass	Richard PASCHEL	Х	Х
Northeast Building Products	Leonard Ford	Х	Х
Northeast Building Products	Lloyd Knowles	Present	Absent
Northeast Building Products	Vere Wheatland	Present	Present
Oldcastle Building Envelope	Kimberly Straw	Present	Absent
Oldcastle Building Envelope	Rick Wright	Х	Х
Oldcastle Building Envelope	Marthe Robergeau	Absent	Present
Quest Windows System	Harneet Gill	Х	Absent
SageGlass	Kimberly Lee	Х	Х
Trakya Glass Bulgaria EAD	Ozgur Hocaoglu	Х	Х
Tristar Glass, Inc.	Robert Carlson	Absent	Х
Trulite Glass and Aluminum Sol	Jeffery Haberer	Х	Х
Viracon	Brian Louks	Х	Х
Vitrum Glass Group	Tara Brummet	Х	Absent
White Aluminium	Ahmed Shubair	Х	Absent
Eastman Chemical Company	Julia Schimmelpenningh	Х	Х

Members by Virtue of Being a Director

			9/29/2021	9/30/2021
Public Interest	Elaine Rodman		Х	Х
Public Interest	Patrick Loughran		Х	Х
Public Interest	June Willcott		Х	Х
Public Interest	William Nugent		Х	Х
		Votes	21	18

Guests		Date and Vo	otes Present
Associated Materials	Seth Green	9/29/2021 Absent	9/30/2021 Present
Chem Source	Michael Turner	Present	Absent
H B Fuller	Chris Davis	Present	Dresent
Intertal	Chris Chang	Prosont	Absont
Interiek	Den Johnson	Present	Ausent
Intertek	Dan Johnson Kanny White	Present	Present
	Kenny white	Present	Present
Intertek	Virgal Mickley	Present	Present
Kuraray America, Inc.	Vaughn Schauss	Present	Present
MAPPI AMERICA INC	Giulio Dalla Costa	Present	Absent
NGA	Urmilla Sowell	Present	Present
QAI	Jose Sanchez	Present	Present
Schiff Hardin LLP	David McHugh	Present	Absent
US CPSC	Brian Baker	Present	Absent
Administrative Staff		Date and Vo	otes Present
		9/29/2021	9/30/2021
AMS, Inc.	John Kent	Present	Present
AMS, Inc.	Katrina Stafford	Present	Present
AMS, Inc.	Kelly Jenness	Present	Present
AMS, Inc.	Mitch Majewski	Present	Present
AMS, Inc.	Kristin Best	Present	Present
AMS, Inc.	James Shannon	Present	Present
AMS, Inc.	Taylor Rowe	Present	Present
AMS, Inc.	Abby Putnam	Present	Present
AMS, Inc.	Sara Connor	Present	Present
AMS, Inc.	Olivia Aubin	Present	Present
	Persons Present	54	45

MOTIONS

Agenda Item #	Re	ef#	Motion/Second	Motion		Vote A/N/A	P/F
3 Minutes	9.29.	21.1	Mark Hutchinson / Brian Louks	Approve the minutes from the Octo 2020 Virtual meeting	Approve the minutes from the October 1 st , 2020 Virtual meeting		Р
12a Laboratory Approval	9.29.	9.29.21.2 Brian Louks / Mark Hutchinson		Re-approved the list of SGCC approved testing laboratories as presented for another 2 year period contingent on continued performance & compliance to SGCC requirements.		UA	Р
12b Laboratory Manual	9.29.21.3 June Willcott / Bernie Herron		June Willcott / Bernie Herron	Approved the below noted revis SGCC Laboratory Manual.	ions to the	UA	Р
		REVI	ISIONS		Section		
		Fee cl	nange submission date	(September 15 th)	A.3		
		Note eacl	to allow signed and da n report	ated test report cover page attached to	A.11		
		Sectio	ction to allow for virtual inspections				
Section for appr		on for approved coated	or approved coated glass meters				
		Repre	sentative Key Paramet	eters table for 2017 CAN/CGSBC.15dating pattern depthD.8			
		Sectio	on for measuring/valida				
		MMN	Nominal Thickness valu	ues to table	E.2		
		Clarif	ication on timing of me	heasuring laminated product interlayer E.4			
		Updat	ed sample test report to	o clarify commonly forgotten parts	Pg.15-17		
	10				le contra c		
14 Laminated Glass	9.30.21.1 Rick Wright / Bill Nugent		Rick Wright / Bill Nugent	Authorized the <i>Laminated Glass Su</i> <i>Committee</i> to review and approve the Guidance material for the SGCC Co of Laminated Glass	<i>b-</i> he new ertification	UA	Р
15 QA Requirements	9.30.21.2 Mark Hutchins / Rick Wright		Mark Hutchinson / Rick Wright	Approved the addition of the "Opti- to the Tempered Suitable Alternativ Production Testing found within the for the SGCC Quality Assurance Pa- Testing	cal Scanner" ves table for e <i>Guidance</i> roduction	UA	Р

ASSIGNMENTS & DISCUSSIONS (Action Items)

No.	Assigned	Details	Due Date
9 Testing Results	AMS	Review and provide beta view to Licensee what Program testing failures could look like 'real time' to the participants in the CIP (username and password required).	
9 Testing Results	AMS	Review and propose a new view for Laminated failures splitting boil vs impact.	

11 ANSI Update	AMS	Include in Laboratory Memo "Metalized Coating is not considered asymmetrical"	
12 Laboratory	AMS	Lab Sub Committee – provide types of Corrective Actions generic similar to how we display the QA Plant Audits	
12c IA		Include questions regarding new MC requirements in Interactive training. Next release 1/1/2022 including MC	1/1/2022
14 Laminated Glass	AMS	Request from the SGCC Laminated Glass Review Sub-Committee Chair if the following people can be added to the group: Urmilla Sowell from NGA and Robert Carlson from Tristar Glass, Inc.	Next SC Call
	All	<u>Next Meeting</u> will be held in Naples Bay Florida, proposed target date: October 5 th 6 th , 2022. To Be Determined	

Results of Meeting Survey

Regarding SGCC program testing results (Agenda #9), what data would you like to see or would like to have available to you?

Additional Views/Data:

- What was presented today and the lami results split by boil and impact.
- Would like to see laminated glass interlayer thickness and type
- Including data on other SGCC failures, not just performance

Questions & Answers:

- 1. Are failures due to the impact or center punch? Answer: SGCC does not collect this information. This information is recorded on the Laboratory test reports, SGCC only records if the specimens failed testing.
- 2. Are test failures only counted once per certification test or for every failure. If 3 of the 4 lites sent for testing fail is it counted once or three times? Are samples sent in as follow up included if they fail? Answer: If 3 of the 4 lites failed testing this is considered 1 failure. Answer: When retest (RT) samples are sent in due to the original failure, and these samples failure this is also counted as a failure.

Attachments are included with initial meeting material or attached hereto if changed during the meeting.

Certification Committee Meeting Agenda

Business Reports

- 1. Call to Order and Self Introduction of Participants and Guests 2:00pm
- **2.** Voting Rights and Responsibilities
- **3.** (M) Review and Approval of Previous Meeting Minutes
- 4. Legal Counsel's Report David McHugh
- **5.** Committee Structure

- 6. Board of Directors Report Brian Louks
- 7. Administrator's Report
- 8. Quick Action Sub-Committee Report

Topics

- 9. Program Testing Results Review
- **10.** Program Status / Remote Audits
- **11.** ANSI Z97.1, CPSC, CAN/CGSB 12.1
- **12.** Testing Laboratories
 - a. (M) Laboratory Approval Status
 - b. (M) Lab Manual Revision END OF DAY 1
 - c. Lab training Exam Begin DAY 2 call to order 10:01
- **13.** (M) Coated Glass
- **14.** Laminated Glass
 - a. (M) Laminated Guidance Material
 - b. Accepted Interlayer List
- 15. (M) Review of QA Production Testing
- 16. Old/New Business
- **17.** Next Meeting Adjourned Day 2 11:57am
- 18. Participants Meeting <u>Wednesday September 29th</u> The meeting was called to order by President Brian Louks. The slate of proposed Board of Directors for 2021-2022 as listed below was presented. Additional nominations were requested. Hearing none, a motion was made by Mark Cody / Elaine Rodman to approve the slate of directors (listed below) for a 1-year term

Vote: Unanimous affirmative – Motion Passes

Hearing no old or new business the meeting was adjourned. September 29th @ 4:05pm

Business Community	Public Interest
Mark Cody	Bill Nugent
Bernie Herron	Elaine Rodman
Mark Hutchinson	June Willcott
Jeff Haberer	Peter Weismantle
Rick Wright	Patrick Loughran



September 29th – 30th, 2021 Virtual - Fall Meeting

Day 1 - Wednesday September 29th

2:00 – 4:00pm Eastern – SGCC Certification Committee Meeting 4:00 – 4:15pm Eastern – SGCC Participants Meeting

Day 2 - Thursday September 30th

10:00am - 12:00pm Eastern – SGCC Certification Committee Call

2021 SGCC® Certification Committee Virtual Meeting

List of Registered Attendees (as of 9/27/2021) – 68 Registered



First Name	Last Name	Company Name:	First Name	Last Name	Company Name:
Mousa	Algedaily	Technical glass Co.(TECHNOGLASS)	Brian	Louks	Viracon
Mohammad	Ali	Al Abbar Group	Nancy	Mammaro	MAPPI AMERICA INC
Brian	Baker	US CPSC	Santiago	Martinez	DINACH
Anuj	Behl	All Weather Windows	Randy	McCoy	Cardinal Glass
Tara	Brummet	Vitrum Glass Group	David	McHugh	Schiff Hardin LLP
Fabio enrique	Castiblanco	Selective Shower Glass Designs Inc.	Virgal	Mickley	Intertek
Chris	Chang	Intertek	Louis	Moreau	AGNORA
Rohit	Chavan	FG Glass Industries Pvt Ltd	Nauman	Munawar	Bureau Veritas
Joshua	Chirieac	Sekisui S-LEC	William	Nugent	Wiss, Janney, Elstner Associates
Mark	Cody	Cardinal Glass	Richard	Paschel	Nashville Tempered Glass
Genaro	Cortez	TEMCOR S DE RL DE CV	Michelle	Phan	Cardinal LG
Giulio	Dalla Costa	MAPPI AMERICA INC	Maurice	Pitt	Produits Verrier International Inc.
Adina	Dobre	Intigral	Mike	Rhoden	VELUX America LLC
Harvey	Dubrofsky	Produits Verrier International Inc.	Rob	Rhodes	Intigral, Inc.
Yasser	Elsewaifi	Guardian	Elaine	Rodman	Homeowners
Allen	Feltes	Intigral, Inc.	Raymond	Roy	Guardian Glass
Leonard	Ford	Northeast Building Products	Jose	Sanchez	QAI
Harneet	Gill	Quest Windows System	Baldeep	Sandhu	Intertek
Diana	Gonzalez	Templados Industriales Sa de Cv	Vaughn	Schauss	Kuraray America, Inc.
Mike	Greci	Intigral, Inc.	Julia	Schimmelpenningh	Eastman Chemical Company
Seth	Green	Associated Materials	Ahmed	Shubair	QC Manager
Jeffery	Haberer	Trulite Glass and Aluminum Sol	Donald	Sokol	Anthony Int-San Fernando, CA
Bernie	Herron	Cardinal Corp.	Urmilla	Sowell	NGA
Ozgur	Hocaoglu	Trakya Glass Bulgaria EAD	Kimberly	Straw	OBE
Mark	Hutchinson	Intigral	Ahmad	Tawalbeh	Technical glass company Jeddah KSA
Simone	Lezzi	Woodbridge Glass Distribution Inc.	Andrea	Torrey	Intertek ATI
James	Jensen	Oldcastle BuildingEnvelope	Michael	Turner	Chem Source
Dan	Johnson	Intertek	Thuy	vu	All Weather Windows Ltd.
Lloyd	Knowles	Northeast Building Products	DJ	Weil	Cardinal Glass Industries
Austin	Kuhn	HMI Glass	Peter	Weismantle	AS+GG
Berkay	Kuruçay	Yakut Cam	Vere	Wheatland	Northeast Building Products
Kimberly	Lee	SageGlass	Kenny	White	Intertek
Pascal	Lessard	Provencher Roy architects	June	Willcott	SGCC Public Interest
Patrick	Loughran	Private Sector (Goettsch Parterners, Architects)	Rick	Wright	Oldcastle Building Envelope

2



SGCC Certification - GoToWebinar

Once the meeting begins, we will ask everyone to <u>Mute</u> themselves. How to ask a question?

1. If it is a time for questions <u>Unmute</u> yourself and speak accordingly.

2. During the presentation you may also use the "Raise your hand" feature and we will verbally open the floor to your question or comment at which time you can <u>unmute</u> yourself.

3. Or you can type your question in the "<mark>Questions</mark>" chat box:







Control Panel

Ground rules and How to use Go To Webinar

- 1. We will start people unmuted. Please put yourself on mute if not speaking. If background noise gets too great, we will mute people, and you'll need to unmute again to speak.
- 2. How to be recognized (unmute and speak, raise hand, type question in the chat)
- Voting Verbally We will ask for negatives and abstentions. If voting negative or abstention, vote 1) verbally, 2) by raising your hand, or 3) by typing a comment. If we can't gain consensus on a vote, we will recall the vote and send out by e-mail after the call.
- 4. Polls on topics that require additional Guidance/Direction
- 5. Session **IS NOT** being recorded
- 6. The presentation material will be sent to attendees after the call
- 7. Roll call and introductions (Per G-T-W attendee list)



Adapt

"What are we here to accomplish?"

- Provide an overview of the program
 - Inform
 - Provide direction and guidance

Staff Introductions

John Kent SGCC Administrative Manager





Terry Schaefer AMS Quality Management System



Katrina Stafford Program Manager



Ken Potter Software Development



Kelly Jenness Laminated Glass Inquiry SGCC Gray Area Questions kelly@amscert.com



Sara Connor Initial Inquiry **Process Test Reports** & Audits Laboratory liaison

Kristin Best Initial Inquiry Process Test Reports

& Audits

Abby Putnam Process Test Reports & Audits **Glass Tracking**





Mitch Majewski Lab Audits Interactive Animation



Olivia Aubin Lab Audits



1- Call to Order and Agenda – SGCC Certification Committee

BY DIRECTION OF: MARK B. CODY, SGCC CERTIFICATION COMMITTEE CHAIRMAN

Business Reports

- 1. Call to Order and Self Introduction of Participants and Guests
- 2. Voting Rights and Responsibilities
- 3. (M) Review and Approval of Previous Meeting Minutes
- 4. Legal Counsel's Report
- 5. Committee Structure
- 6. Board of Directors Report
- 7. Administrative Report
- 8. Quick Action Sub-Committee Report

Topics

- 9. Program Testing Results Review
 10. Program Status / Remote Audits
 11. ANSI Z97.1, CPSC, CAN/CGSB 12.1
 12. Testing Laboratories
 - a. (M) Laboratory Approval Status
 - b. (M) Lab Manual Revision
 - c. Lab training Exam

13. (M) Coated Glass

- 14. Laminated Glass
 - a. (M) Laminated Guidance Material
 - b. Accepted Interlayer List
- 15. Review of QA Production Testing
- 16. Old/New Business
- 17. Next Meeting
- 18. Participants Meeting

2 - Determination of Quorum, Voting rights

Excerpt from SGCC By-Laws

Purpose of SGCC

- 1. To promote public safety by encouraging maintenance of the highest standards of excellence in the manufacture of safety glazing materials.
- 2. To encourage and cooperate in developing standards related to other performance characteristics of glazing products.
- To plan, organize, direct, coordinate and maintain a certification program for glazing materials to assure that glazing products meet applicable standards or performance requirements, adopted or approved by the Council.

Certification Committee Voting Eligibility

- Board members
- Licensees (Certified Companies)
- Participants (w/ signed agreement)

<u>Quorum</u>

• **10** Certification Committee members



Adobe Acrobat Document

2 - Determination of Quorum, Voting rights

Excerpt from SGCC By-Laws

SGCC Conflict of Interest Policy

- A. All matters of the SGCC certification program are conducted in an independent, third party, impartial manner free from conflict of interest. SGCC Board members have a duty of loyalty to SGCC. Board Members shall not have any relationship with any other business or person which conflicts with (or creates the appearance of conflicting with) the proper performance of their duties or responsibilities, or might affect their independent judgment with respect to transactions between SGCC and another business or person.
- B. Conflict of Interest could arise if an SGCC Board Member receives improper personal benefits as a result of his or her position with SGCC. Such persons should not accept payments, gifts, entertainment, personal discounts or other favors that may appear to place them under some obligation to a third party dealing or desiring to deal with SGCC. Similarly, an SGCC Board Member should not give any such payments, gifts, entertainment, personal discounts or other favors to customers or suppliers. For example, this rule prohibits the payment or receipt of bribes, kickbacks or illegal payments of cash. Certain customary business courtesies, such as covering the bill for lunch or dinner in connection with a business meeting, normally would not violate this policy. SGCC Board members, however, should try to keep such courtesies on a reciprocal basis in order to show that no gift or favor is sought or granted.

Voting Rights and Responsibilities

A. Participation in SGCC meetings and in casting any vote throughout the certification program operations shall be deemed to indicate full understanding of, and agreement to abide by, the above policies and principles regarding impartiality, avoiding conflicts of interest when voting, and respecting confidentiality as appropriate and requested in light of the duty of loyalty to the SGCC not-for-profit corporation.

3- Approval of Minutes

<u>Motions</u>	Agenda Item #	Ref #	Motion/Second	Motion	Vote A/N/A	P/F
	4 Minutes	10.1.20.1	Mark Hutchinson / June Willcott	Approve the minutes from the October 9 th and 10 th , 2019 meeting in Northbrook (Chicago), IL	UA	Р
	10 Remote Audits	10.1.20.2	Mark Hutchinson / Bernie Herron	Approve revised SGCC procedural guide audit wording for 2021 and forward as written below:	27/0/1	Р
				After initial certification (see "How Can You Become a Licensee"), the administrator verifies the production at the licensee's manufacturing location during twice per year audits. In consideration of public health concerns one or both twice per year audits can be conducted virtually. During each audit, the licensee's compliance to SGCC's Quality Assurance Program is validated. During these audits, independent routine test sample selection is performed as well as review of proper labeling practices.		

Assignments

No.	Assigned	Details	Due Date
7 CPD	AMS	Received feedback from the group that a modified version of the hardcopy could be a possibility for reducing the overall size/weight of the CPD. Will continue to work with the Board.	
7 Website	AMS	There was general support to include interlayer supplier links and information on the SGCC website. Regarding listing industry consultants, it was suggested to link to NGA's website to provide a list.	
9 Testing Results	AMS	Continue efforts to make this data available 'real time' to the participants in the CIP (username and password required). Also, when charting failure by thickness and glass type (Temp/Lami) chart failure as % of total tests.	

3- Approval of Minutes

Assignments continued

INO.	Assigned	Details	Due Date
14	AMS	Consensus to stay with the original plan but move the implementation out a year. Therefore	Fall 2021
Coated		L21: Voluntarily submitting Metalized Coated (MC) Glass	
Glass		F22: Ongoing submission of MC samples	
		L22: (July 1 st , 2022) Fabricators that wish to SGCC Certify MC glass must have completed testing. Clear will no longer cover coating unless MC testing has been performed.	
14 Coated Glass	AMS	Topic for Fall 2021 Meeting to review Coated glass wording for the SGCC Procedural Guide and Laboratory Manual.	Fall 2021
15 SGCC Labels	AMS	Will move to send selection labels to Certified plants electronically	2021

Agenda #3: Proposed Motion -

Motion to approve the minutes from the October 1st, 2020 Virtual meeting

Link to Full Meeting Minutes:





4- Legal Counsel Report



David P. McHugh

Partner

Executive Committee Member Practice Group Leader, Corporate and Transactional Practice Group Co-Leader, Securities and Capital Markets Chicago D 312.258.5668
 M 312.952.7709
 dmchugh@schiffhardin.com
 vCard | LinkedIn

4 – Legal Report SGCC Antitrust Compliance Program Guidelines

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.

Link to SGCC Antitrust Guideline



5 - Committee Structure



5 - Committee Structure

SGCC Board of Directors	President: Brian Louks				
Scope: The overall affairs of the Council sh	all be managed by its Board of Directors.				
Members					
Public Interest	Business Community				
June Willcott - Vice President	Brian Louks - President				
Elaine Rodman - Treasurer	Mark Hutchinson				
Peter Weismantle	Jeff Haberer - Secretary				
William Nugent	Mark Cody				
Patrick Loughran	Bernie Herron				

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

Sub	Committee: Quick Ac	ction

Chair: Mark Cody

Scope: Between meetings resolution of any issue, appeal or request for review that can not be dealt with by the administrator or is beyond the guidance provided to the Administrator or for which the Administrator has rendered a decision that is not acceptable by the applicant. <u>Members</u>

SGCC President	Brian Louks
Certification Committee Chair	Mark Cody
Public Interest	June Willcott

Sub Committee: Time and PlaceChair: Elaine Rodman

Rick Wright

Scope: Canvas for scheduled meetings of glass and associated industry meetings; develop a list of possible locations and specific dates for future meetings for submittal to participants for vote. Maintain SGCC marketing plan. Members: Sub-Committee of the Certification Committee

Sub Committee:
NominatingChair:
Open-Rick WrightPublic Interest Member:
Peter WeismantleScope: 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.

5 - Committee Structure

Sub Committee: Marketing	Chair: Open					
Scope: Formulate & maintain SGCC marketing plan, & website, & any other promotional activity that may arise.						
Members: Sub-Committee of the Board						
Rick Wright - OBE	June Willcott – Public Interest					
Mark Cody - Cardinal	Bernie Herron - Cardinal					
Peter Weismantle – Public Interest						

Sub Committee: Laboratory and QA Inspection	Chair: Michelle Phan - Cardinal						
Scope: Address and resolve concerns related to the interrelationship between the laboratories, the administrator, and S							
participants. Development and maintenance of the laboratory testing manual and program quality assurance requirements.							
Members: Sub-Committee of the	Certification Committee						
Mark Cody - Cardinal	Mark Hutchinson - Intigral						
Rick Wright - OBE	Jeff Haberer - Trulite						
Brian Louks - Viracon	Bill Nugent – Public Interest						
Julie Schimmelpenningh - Eastman	Urmilla Sowell - NGA						
Tim Moore – W. A. Wilson Inc.							

Sub Committee: Laminated Glass Review	Chair: Rick Wright - OBE						
Scope: Review SGCC guidelines for the certification of Laminated Glass							
Members: Sub-Committee of th	e Certification Committee						
Julie Schimmelpenningh - Eastman	Vaughn Schauss - Kuraray						
Nicole Byre – SAGE	Michelle Phan - Cardinal						
Tim Moore – W. A. Wilson Inc.	Mark Cody – Cardinal						
Jeff Haberer - Trulite							

6 – Board of Directors Report

Brian Louks - President/June Willcott – VP

- 1. Review of Board Membership and Officers
- 2. Financial Matters
- 3. ANSI/ISO Accreditation Status
- 4. Designated expenditures
- 5. Next Meeting

7 – Administrative Report

Certified Products Directory (CPD) January – Hard copy printed and mailed, electronic copy distribution

July – Electronic copy distribution

January Hard Copies Printed	January	Electronic Cop	Subscription List		
	Hard Copies Mailed	January*	July	(E-mail and Physical Addresses)	
2425	2395	1969	1867	2442	

* 2020 to help reduce the number of pages, two redundant views of certified products were eliminated (leaving the list view in alphabetical order, by plant)



	2016	2017	2018	2019	2020	2021
	As of Oct	As of Sept				
No. of Plants	368	412	459	494	512	533
% increase in Plants	+11%	+12%	+11%	+8%	+4%	+4%
Offshore Plants	105	111	141	155	162	183
% increase in Offshore Plants	+18%	+6%	+27%	+10%	+5%	+13%
No. of Licensees	240	283	335	376	399	416
Total Certified Products	2306	2646	2837	3008	3197	<mark>3265*</mark>
% increase in Certified Products	+11%	+15%	+7%	+6%	+4%	+2%
Products ANSI ONLY	6	0	0	1	1	1
Products CPSC ONLY	0	0	0	0	0	0
Products COMPOSITE	1196	1340	1420	1390	1401	1378
Products COMP+CAN	1104	1306	1417	1617	1795	1886
Plants COMP+CAN	141	175	197	238	266	291

* Currently at **SGCC #8375** What do we do when we reach 10000?? Are we ok with going to 5 digits?? Poll #1 Result: Yes 4%, <u>No 48%</u>, Not Sure 48% Poll #2 - How do you label your glass: Screen Printing 11%, <u>Laser Etch 83%</u>, Other 6%

SGCC Website Redesign

www.sgcc.org



8 – Quick Action Sub-Committee Report

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

At this time, no Quick Action Sub-Committee items to report

9 – Program Testing Results Review

Total Specimens Continues to grow

Program Testing Results

		Selec	tions (% o	f total prod	lucts)	Produ	duct Failures (Calendar Year) Failures																	
	×					Total F	Failures				Tempered	1	Te	empered (TT	G)	Т	empered (TP	G)	La	minated Im	pact	I	aminated l	Boil
Year	Total Specimens Tested (Sets)	Participant %	Inspector %	Total Tempered Products %	Total Laminated Products %	Total Failures	Total Failures (%)	Participant Selected % failure	Inspector Selected % failure	total	% failure	Tempered % of Total Temp Product Failure	total	% failure	Tempered % of Total Temp (TTG) Product Failure	total	% failure	Tempered % of Total Temp (TPG) Product Failure	total	% failure	Laminated Impact % of Total Lami Products Failure	total	% failure	Laminated Boil % of Total Lami Products Failure
2021 to date	3992	96%	2%	87%	13%	91	<mark>2.3%</mark>	100%	0%	48	53%	<mark>1.4%</mark>	36	40%	1.0%	15	16%	0.4%	22	24%	<mark>4.3%</mark>	12	13%	2.4%
2020	5538	98%	2%	87%	13%	118	2.1%	98%	2%	76	64%	1.6%	68	58%	1.4%	15	13%	0.3%	28	24%	4.0%	14	12%	2.0%
2019	4909	88%	2%	88%	11%	161	3.3%	96%	3%	101	63%	2.3%	75	47%	1.7%	23	14%	0.5%	39	24%	7.0%	12	7%	2.1%
2018	5938	89%	4%	88%	12%	153	2.6%	95%	5%	94	61%	1.8%	56	37%	1.1%	34	22%	0.6%	44	29%	6.4%	8	5%	1.2%
2017	5354	84%	4%	89%	11%	123	2.3%	100%	0%	75	61%	1.6%	51	41%	1.1%	22	18%	0.5%	39	32%	6.8%	9	7%	1.6%
2016	4529	97%	3%	90%	10%	86	1.9%	98%	2%	58	67%	1.4%	40	47%	1.0%	18	21%	0.4%	24	28%	5.1%	3	3%	0.6%
2015	3622	98%	2%	91%	9%	89	2.5%	99%	1%	67	75%	2.0%	55	62%	1.7%	12	13%	0.4%	16	18%	4.8%	5	6%	1.5%
								-				Retur	n to l	nistor	ical									

Link to Full Chart:

What other data points from the SGCC program may be helpful?? We will continue efforts to

make this available in real time on the CIP.

average failure



9 – Program Testing Results Review

% Failure By Thickness - Tempered



*New View

9 – Program Testing Results Review

% Failure By Thickness - Laminated





*New View

10 - SGCC Program Status Update



Pg. 10 – *SGCC Certified Products Directory: In consideration of public health concerns one or both of the twice per year audits can be conducted virtually. During each audit, the licensee's compliance to SGCC's Quality Assurance Program is validated. During these audits, independent routine test sample selection is performed as well as review of proper labeling practices*

Feedback on the effects from the Pandemic



We welcome your input

- Glass Shortages (can't keep up with production)
- Shipping issues (Customs)
- Traveling issues (International Borders still closed)
- Employee Shortages
- Visitor Policies evolving



11 – ANSI Z97.1, CPSC, CAN/CGSB 12.1



Note: Metalized Coated Glass is not considered asymmetrica

SGCC Laboratory & QA Inspection Sub Committee

Sub Committee: Laboratory and QA Inspection	Chair: Michelle Phan - Cardinal					
Scope: Address and resolve concerns related to the interrelations	hip between the laboratories, the administrator, and SGCC					
participants. Development and maintenance of the laboratory testing manual and program quality assurance requirements						
Members: Sub-Committee of the	Certification Committee					
Mark Cody - Cardinal	Mark Hutchinson - Intigral					
Rick Wright - OBE	Jeff Haberer - Trulite					
Brian Louks - Viracon	Bill Nugent – Public Interest					
Julie Schimmelpenningh - Eastman	Urmilla Sowell - NGA					
Tim Moore – W. A. Wilson Inc.						

- 12. SGCC Testing Laboratories
 - a. Laboratory Approval Status
 - b. Lab Manual Revision
 - c. Lab training Exam

13. Coated Glass

12a – SGCC Laboratory Approval Status (Last updated 9/21/2021)

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

Company	Location	Date of Initial Approval	Date of Last Inspection	Approved by SGCC	Accredited to ISO/IEC 17025 Agency	Signed Agmt (date)	No. of C Plants
	Cortland, NY	1981	7/15/2021	10/9/2019	IAS TL-212	12/10/2015	24
	Fresno, CA	11/18/1997	10/22/2020	10/9/2019	IAS TL-264	11/13/2015	67
	Kent, WA	10/29/2009	10/20/20	10/9/2019	IAS TL-330	11/13/2015	20
	Lithia Springs, GA	5/17/2012	10/9/2020	10/9/2019	IAS TL-338	11/13/2015	26
Intertek	Montreal QC	2/20/2015	Tent. 12/2021	10/9/2019	SCC 1003-15/84	1/28/2015	36
	Plano, TX	7/1/2004	Tent. 11/3/21	10/9/2019	IAS TL-331	11/13/2015	61
	Springdale, PA	11/15/2018	10/7/20	10/9/2019	IAS TL-361	8/27/2018	б
	Fridley, MN	10/6/1992	Tent. 10/2021	10/9/2019	IAS TL-285	11/13/2015	31
	Vancouver, BC	9/19/2017	9/16/2020	10/9/2019	IAS TL-274	7/24/2017	5
	York, PA	6/30/1985	6/7/2021	10/9/2019	IAS TL-144	11/13/2015	70
QAI Laboratories	Medley, FL	10/2/1997	Tent 11/2021	10/9/2019	A2LA #3308.01	10/19/2015	82
National Certified Testing	Everett, WA	10/14/1997	Tent. 10/2021	10/9/2019	A2LA #3054.03	10/19/2015	12
Laboratories, Inc.	York, PA	5/19/2011	6/8/2021	10/9/2019	A2LA #3054.01	10/19/2015	25
Bowser-Morner, Inc.	Dayton, OH	1991	Tent. 10/2021	10/9/2019	L-A-B #L2444	10/22/2015	28
Molimo	York, PA	3/27/2019	6/8/2021	10/9/2019	IAS TL-678	3/12/2019	9
Construction Consulting Lab West	Ontario, CA	11/19/1997	Tent 10/2021	10/9/2019	IAS TL-226	12/4/2015	35
Element Materials Technology	Des Moines, IA	6/11/1999	Tent 11/2021	10/9/2019	A2LA #1479.02	12/1/2015	21
PRI Construction Materials Technologies	Tampa, FL	5/19/2017	Tent. 10/2021	10/9/2019	IAS TL-189	4/19/2017	17

Motion

21/0/0 Pass - UA

1st:__Brian L._ 2nd: Mark H

Vote:

Agenda #12: Proposed Motion - Motion to re-approve the list of SGCC approved testing laboratories as presented for another 2-year period contingent on continued performance & compliance to SGCC requirements

12b – Testing Laboratories

SGCC Lab Manual Revisions 9/16/2021

	REVISIONS	Section	
+	Fee change submission date (September 15 th)	A.3	
+	Note to allow signed and dated test report cover page attached to each report	A.11	
+	Section to allow for virtual inspections	A.13	
+	Section for approved coated glass meters	C.14	
V	Representative Key Parameters table for 2017 CAN/CGSB	C.15	
+	Section for measuring/validating pattern depth	D.8	
+	MM Nominal Thickness values to table	E.2	<u>Link to Lab</u> Manual
+	Clarification on timing of measuring laminated product interlayer	E.4	PDF
V	Updated sample test report to clarify commonly forgotten parts	Pg.15- 17	Adobe Acrobat Document
	** DO WE NEED A MOTION TO APPROVE LAB SC ACTIONS?	1 st ·	Motion June W
29	Agenda #12b: Proposed Motion - Motion to approve the above noted revisions to the Lab Manual.	2 nd Vot 21/	: _Bernie H :e: /0/0 <mark>Pass - UA</mark>



End Day 1

- Reminder that Day 2 is the same link as today
- A reminder email will go out this afternoon for tomorrow's meeting

18 – Participants Meeting

SGCC ANNUAL PARTICIPANTS' MEETING

Wednesday September 29th, 2021 4:00 PM Virtually by on-line meeting

ARTICLE IV PARTICIPANTS MEETINGS

Section 1. <u>Annual Meeting</u>. An annual meeting of the participants shall be held each year ... for the purpose of electing Directors and for the transaction of such business as may come before the meeting ... Election to the Board of Directors shall be for a one-year period commencing and ending at the Annual Participant's Meeting.

- 1. SGCC President Brian Louks present slate of Board of Directors for 2021-2022
- 2. Call for nominations and vote
- 3. Old or New Business
- 4. Adjournment 4:03pm

Business Community	Public Interest
Mark Cody	Bill Nugent
Bernie Herron	Elaine Rodman
Mark Hutchinson	June Willcott
Jeff Haberer	Peter Weismantle
Rick Wright	Patrick Loughran

Agenda #18: Proposed Motion: Requesting a motion to accept the slate of directors for a 1 year term.

Motion 1st:__Mark C.___ 2nd: __Elaine R.__ Vote: 21/0/0 Pass - UA

1- Call to Order and Agenda – SGCC Certification Committee

BY DIRECTION OF: MARK B. CODY, SGCC CERTIFICATION COMMITTEE CHAIRMAN

Business Reports

- 1. Call to Order and Self Introduction of Participants and Guests
- 2. Voting Rights and Responsibilities
- 3. (M) Review and Approval of Previous Meeting Minutes
- 4. Legal Counsel's Report
- 5. Committee Structure
- 6. Board of Directors Report
- 7. Administrative Report
- 8. Quick Action Sub-Committee Report

Topics

Dav 2

9. Program Testing Results Review
10. Program Status / Remote Audits
11. ANSI Z97.1, CPSC, CAN/CGSB 12.1
12. Testing Laboratories

a. (M) Laboratory Approval Status

- b. (M) Lab Manual Revision
- c. Lab training Exam

- 13. (M) Coated Glass
- 14. Laminated Glass
 - a. (M) Laminated Guidance Material
 - b. Accepted Interlayer List
- 15. Review of QA Production Testing
- 16. Old/New Business
- 17. Next Meeting
- 18. Participants Meeting



12c – SGCC Interactive Lab Training

Meeting Minutes (10.3.18.3) To mandate SGCC Lab training exam to "all personnel performing SGCC testing" are required to take and pass annually (Passing requirements = 100%). Implementation of these changes were effective 1/1/2020.

Lab Personnel to Complete the Exam				
2019	35			
2020	51			
2021 YTD	12			

Important Feedback from Technicians:

<u>Technician 1:</u> "For the tempered glass selection of the 10 largest pieces, the cracked piece should be a little more pronounced."

<u>Technician 2:</u> "If any question was answered incorrectly, the "wrong answer" prompted the exact area where the answer can be located and to have that refresher is very nice!"

Technician 3: "When you ask us to pick the correct permanent label you have SGCC separated from the SGCC number"



12c – SGCC Interactive Lab Training



Next release planned for January 1st, 2022

The IA training is intentionally updated every year in order to provide the most accurate and up to date information to our technicians. For the year of 2022, the interactive animation will be updated <u>to include additional laboratory requirements associated with testing of Metalized Coated Glass.</u>

13 – Coated Glass

Coated Glass Timeline



New Term

To Be Added to the Certified Product Key:

MC = Metalized Coating, Tempered Glass (i.e. Reflective, Low E, other)

Coated Glass Testing

Years	No. of test Sets (sets	Results C/NC	SGCC Total Failure
	of 4)	(% Failure)	Rate
2018 – 2021 YTD	137	134/3 (2.2%)	2.3%

No change to SGCC Labeling

13 – Coated Glass

<u>Revisions to the Certified Products Directory – Procedural Guide</u>

New Section

XX2 CERTIFICATION OF TEMPERED COATED GLASS

In order to SGCC certify tempered glass with a metalized coating (MC) that is applied to annealed glass prior to tempering (reflective, Low E, other), test results for the MC glass must be initially provided to SGCC. MC testing must then occur at least annually thereafter to maintain the MC designation for a particular thickness of product. Testing of MC product will satisfy SGCC regular testing requirements (likely one MC test and one non-MC test annually). Certification of an MC product shall cover coated and non-coated product of a given thickness. See Guideline T.3 for further clarification.

Testing shall be with a sputter coating (soft coat) or a pyrolytic (hard coat), at the discretion of the SGCC Licensee. Testing of any coated product shall cover all coated product. During regular twice per year inspections SGCC shall document the generic class of coating to submit (Sputter or Pyrolytic). The plant shall ship product with the coating identified (as a minimum 'Soft Coat' or 'Hard Coat') (likely by paper label), and the testing laboratory shall measure/validate the coating with the use of a coated glass meter (List of acceptable meters available in the SGCC Laboratory Manual). The presence of a coating shall be included in the SGCC test report.

Listings (certifications) for Tempered coated glass shall begin with the July 1st, 2022 certification cycle (L22).

• Wording approved by the <u>Laboratory & Inspection Subcommittee</u>

*Added text during meeting

• Implementation approved by the Board July 2021

Revised wording for the CPD

13 – Coated Glass

Proposed Revise Wording for T.3 Guideline

TEMPERED TRANSPARENT GLASS

T.3

Certification of regular non-coated tempered glass will also cover the items below, of the same nominal thickness where the coating does not alter substantially the post-breakage behavior of the glass substrate.

- Tinted
- heat absorbing,
- Non-metalized surface and coating (such as ceramic material applied as a continuous or partial coating to one or more surfaces)
- Post tempered metalized coating

ed glasses of the same nominal thickness where the coating does not alter substantially the post-breakage behavior of the glass substrate.

A "substantial alteration" is one that would render the coated-tempered glass in non-conformance with the applicable safety glazing standards. Glasses of the same nominal thickness with a ceramic or other material applied as a continuous or partial coating to one or more surfaces are also covered. For SGCC certified tempered glass with a metalized coating (MC), as defined in section XX2, the metalized coated product must be tested initially and then at least annually thereafter. An SGCC "MC" designation per nominal thickness will be authorized for product in compliance. Products with the MC designation shall cover coated or non-coated product. See section XX2 of the procedural guide. (Revised XX/XX/XXX)



Do we need a motion Laboratory & Inspectiv rove, this was approved by the *committee*?



14 – Laminated Glass

Sub Committee: Laminated Glass Review	Chair: Rick Wright - OBE				
Scope: Review SGCC guidelines for the certification of Laminated Glass					
Members: Sub-Committee of the Certification Committee					
Julie Schimmelpenningh - Eastman	Vaughn Schauss - Kuraray				
Nicole Byre – SAGE	Michelle Phan - Cardinal				
Tim Moore – W. A. Wilson Inc.	Mark Cody – Cardinal				
Jeff Haberer - Trulite					

14. Laminated Glassa. Laminated Guidance Materialb. Accepted Interlayer List

14 – Laminated Glass

Laminated Growth (Jan. 2011 – Jan. 2020)



Total Lami Products (10yrs)

Laminated Glass Equivalency (Table L1) As inserts are referenced below, there shall be no adverse reaction of inserts with accepted interlayers. Fabricator maintains sole responsibility for establishing compatibility, durability and retention of impact properties for all materials used in any laminated composite or encapsulated interlayer system.					
Change Categories	Not Equivalent Changes				
Interlayer generic category	Different brand of same generic category (see guideline L.11)	Different generic category			
Interlayer thickness	Increase in interlayer thickness (As long as overall thickness remains within range of certified product).	Decrease in interlayer thickness (maximum allowable minus tolerance of 0.005 inches)			
Glass/glazing	Flat, patterned or bent glass	Change from glass to plastic or plastic to glass			
Glass fabrication	(A, HS, T, CS) See guideline L.8	N/A			
Dimensional tolerances (Glass and Interlayer)	(See Guideline L.1 and L.7)	N/A			
Inserts or changes in material of plies or inserts (generic make-up)	If insert is encapsulated and interlayer is accepted and of the minimum thickness of acceptance on each side of the insert	If insert is not encapsulated, or interlayer is not accepted or of minimum thickness on each side of insert			
Additional layers of same type	Increase in layers (As long as overall thickness remains within range of certified product).	Decrease in layers			
Coatings or Color (interlayer or glazing)	Changes in tint, translucence, or coated glass	N/A			
Decorative pattern (not to be confused with patterned glass)	Changes in decorative pattern (glass or inserts), follow direction for change of insert	Lower than tested minimum interlayer thickness on either side of the insert or non-accepted interlayer			
Electronics, plastics or other devices	Encapsulates, Follow requirements for accepted interlayer and minimum thickness on both sides of inserts	Lower than tested minimum interlayer thickness on either side of the insert or non-accepted interlayer			

Will need Revision

14 – Laminated Interlayer List

SGCC LIST OF ACCEPTED INTERLAYERS (SD-99)

In order for a laminated glass product to become or remain SGCC Certified, the interlayer used by the manufacturer must be on this list. All interlayers must have weathering test data on file. Outdoor use may be tested to ANSI 297.1-2009 or 2015 and Indoor use only must be tested to ANSI 297.1-2015 weathering data.

L1 Certification to one brand within the generic category will allow switching to other brands within the generic category on the list (see Laminated Glass Equivalency - Table L1 for guidance with Change Catergories, Equivalent/Not Equivalent Changes in accepted interlayers).

All interloyers must have weathering test data on file. Outdoor use may be tested to ANSI 297.1-2009 or 2013 and indoor use only must be tested to ANSI 297.1-2015 waithering data. All indoor use only products must submit indoor Use Only Weathering requirements to ANSI 297.1-2015 by 12/31/2015 to minitain approval on this list. Interloyer suppliers not providing weathering data to SEC by 12/31/16.

Generic Code & Description					
(b) Poly Vinyl Butral	(lu) Liquid Resin - UV Cure	(f) Fluorinated Ethylene Propylene	(Ic) Liquid Resin-Multi Component	(p) Polyethylene Terephthalate	(ev) Ethylene- Vinyl Acetate
(ip) lonoplast	(el) Epoxy-Liquid Crystal Polymer	(u) Polyurethane	(su) Solid resin UV cure		
Generic Code	Description	Supplier	Interlayer Brand	Interlayer Formulations	Weathering Data on file
(b)	Poly Vinyl Butral	Eastman Chemical Company	Saflex IIIG/Vanceva	Series A, C, D, F, H, M, N, P, R, S, W	~
		Eastman Chemical Company	Saflex Specialty	Saflex Q, AG, DB/DS	✓
		Eastman Chemical Company	Saflex Composite	Saflex V, K series	✓
		Kuraray	Trosifol SentryGlas Expressions		✓
		Kuraray	Trosifol (formerly Butacite B50-B56)	Clear (B500)	✓
		Kuraray	Trosifol (formerly BG)	Clear/Ultra Clear (B100)	✓
		Kuraray	Trosifol (formerly ES)	Extra Stiff (B130)	✓
		Kuraray	Trosifol (formerly SC)	SC Monolayer (B100)	 ✓
		Kuraray	Trosifol (formerly XT90)	XT (8140)	✓
		Kuraray	Trosifol	Solar R40 (8900)	✓
		Kuraray	Trosifol	HR100 (B170)	✓
		Chang Chun	Winlite	(0.015)	✓
		Sekisui S-Lec America LLC	Sekisui S-LEC Film & Sekisui S-LEC Acoustic Film	(0.030)	~
		Everlam S.A.	EVERLAM™	NC 010, LAM52 (0.015)	✓
		Everlam N.V.	EVERLAM [™] SUPER TOUGH	LAM72T	✓
		Kingboard (FO Gang) Specialty Resins Ltd.	Kingboard	(0.015)	~
		Zhejiang Decent New Material Co., Ltd.	Architectural PVB	(0.030)	✓
(u)	Polyurethane	SWM International	ArgoBond®	ST-6050 (0.050)	✓
(ip)	lonoplast	Kuraray	Trosifol SentryGlas*	(0.035)	✓
		Kuraray	Trosifol SentryGlas® Xtra™	(0.035)	✓
(lu)	Liquid Resin - UV Cure	Bestroom Co. Ltd.	UVLAM	(0.040)	v
()		H.B. Fuller-Kommerling	Kodilan GS-LED	(.040)	✓
		ALLNEX	UVEKOL	(0.040)	 Image: A second s
(ev)	Ethylene-Vinyl Acetate	Interlayer Solutions, inc.	EVALAVER	(0.015)	 Image: A start of the start of
(24)	conjune improcedure	Folienwerk Wolfen GmbH	Evguard ^e - UV380, Polar White, Milky White	(0.015)	~
		Hornos Industriales Pujol, S.A.	EVALAM Crystal	(0.015)	✓
		Hornos Industriales Pujol, S.A.	EVALAM Visual	(0.015)	✓
		RCN Solution SRL	REVA BF	(0.015)	✓
		IGE Supply Solutions, Inc.	SHENZHEN OSTER FILM - ASQ1X Extra Clear EVA Film	(0.015)	✓
		SWM International	ArgoBond®	SE-381TF (0.030)	×
		Satinal SPA	Strato	(0.015)	✓
		Shanghai HIUV New Materials Co., Ltd.	HIUV-PVE	(0.015)	✓
-					-

	Generic Code & Description							
(b) Poly Vinyl Butral	(lu) Liquid Resin - UV Cure	(f) Fluorinated Ethylene Propylene	(Ic) Liquid Resin-Multi Component	(p) Polyethylene Terephthalate	(ev) Ethylene- Vinyl Acetate			
(ip) lonoplast	(el) Epoxy-Liquid Crystal Polymer	(u) Polyurethane	(su) Solid resin UV cure					
Generic Code	Description	Supplier	Interlayer Brand	Interlayer Formulations	Weathering Data on file			
(ev)(p)	Ethylene-Vinyl Acetate / Polyethylene Terephthalate	Folienwerk Wolfen GmbH	Evguard®+ MPE	(.015)(.008)(.015)	~			
(el)(p)	Epoxy-Liquid Crystal Polymer / Polyethylene Terephthalate	Polytronix, Inc.	Polyvision Film	(0.075)	~			
(su)	Solid resin UV cure	Seeory Materials Corp	Secory Interlayer	(0.030)	✓			

Continues to grow

Link to <u>Accepted</u> <u>Interlayer List</u> off SGCC website

14 – Laminated Glass

Laminated Glass Committee Meeting on August 18, 2021

Key Topic – Laminated Glass inquiries are getting more technical and how should SGCC proceed as the glass industry evolves?

Committee guidance:

- 1. Pull back
- 2. Further define coatings, print, deco, inserts and give examples
- 3. Continue developing Laminated Guidance Document and update graphics

Laminated Glass Definitions (DRAFT as of 9/22/21)

Coatings, Decorative Glazing and Prints:

- Coatings, decorative glazing, or prints **chemically bonded (fused) to glass** within a laminated glass product **do not need additional testing** and are included in certification if base testing passes. (Examples: Ceramic Frit, Pyrolytic Coatings)
- Coatings, decorative glazing, or prints <u>not</u> chemically bonded (fused) to glass within a laminated glass product will require additional impact/weathering. Example: Surface applications, <u>Rice Paper</u>, Grass.

Inserts:

*revised text during meeting

Other layers of sheeting, continuous or non-continuous, either within an encapsulated system or contacting glass with 100% surface coverage.

*See graphics for further guidance (Next Slide)

14 – Laminated Glass STILL IN DRAFT

Fabricator maintains sole responsibility for establishing compatibility, durability, and retention of impact properties for all materials used in any laminated composite or encapsulated interlayer system.





SGCC Laminated Glass Reference Guidelines:

See most recent Certified Products Directory for current "Laminated Glass" guidelines.

<u>Proposed</u> Motion to authorize the Laminated Glass Sub-Committee to review and approve new Guidance for the SGCC Certification of Laminated Glass



15 – SGCC QA Requirements Production Testing

SGCC Certified Products Directory - Quality Assurance

Requirements:

Production testing – Procedures shall describe testing of regular production and shall include SGCC requirements for safety glazing products. The SGCC auditor shall 1) review historical testing records ensuring procedures were followed if failure occurred 2) witness at

least one production test and 3) review the method of evaluation during twice per year visits. When samples are not available, the manufacturer shall describe to the auditor how production testing is performed. Where ANSI or ASTM test methods are referenced below, other like national or internationally accepted test methods (for example EN 12600) are acceptable. Records of testing shall be maintained for a minimum of 10 years.

Plant Quality-Related Findings (F21)



SGCC has put together Guidance for the SGCC Quality Assurance Production Testing

https://www.sgcc.org/more-info/miscellaneous-forms-and-information

safety	C glazing certifi	cation council			Administrative Management Systems, Inc. Administrative Office
		Suit	able Alternati	ves for Productior	Testing
	Production Testing: <u>Mandatory</u> :n-plant testing <u>Required</u> by SGCC QA and Testing requirements to address consistency of production NOTE: We are not suggesting these standards are equivalent for production control			Quality Assurance Testing: Non-Mandetory, im-plant testing cy of Recommended by suppliers and/or internal policies (While SGCC does not require or endorse many forms of in-plant quality assurance testing, SGCC recognizes the value of such tests and supports testing beyond SGCC mandatory testing as a viable option for QA.)	
	Standard	Title	Production Test	Suitable Alternate For	Requirements When Testing to This Standard
g	ANSI Z26.1	Standard for Safety Glazing Materials for Glazing Motor Vehicles	Penetration Resistance Test 20 (Section 7.20)	ASTM F3006 & 3007 Ball Drop Test laminated glass	- Use 3 Test Samples Only (Max 4) - Ball Drop height should reflect SGCC QA Doc.
<mark>minate</mark>	EN 12600	Glass in Building Impact Test Method and classification of flat glass	Pendulum test	ANSI Z97.1 Impact Test Laminated or tempered glass	Test either to Class A or Class B drop height Sample size should be 34 x 76" Penetration force is 18 N instead of 25 N Perform particle weight determination as per ANSI 297.1 - 2015
Lai	EN 4440	Glass in Building - Laminated glass	Ball Drop Test Annex C.2	ASTM F3006 & 3007 Ball Drop Test laminated glass	 Use Drop Height defined on SGCC QA Doc. Use 2.3 kg, 83 mm diameter smooth steel ball Test 305 +/- 10mm by 305 +/- 10mm samples
	EN 14449	and laminated safety glass	Pendulum Impact Test Annex C.3	ANSI Z97.1 Impact Test laminated glass	- This is only the specification, for the testing procedure refer to ANSI Z97.1 - 2015

Copy of Guidance Document



15 – SGCC QA Requirements Production Testing



But the next question would be what optical scanners are acceptable

Standard / Equipment	Title	Production Test	Suitable Alternate For	Requirements When Testing to This Standard
Optical Scanner			Evaluation of ANSI Z97.1 Center Punch Fragmentation Interpretation of Results (Section 5.2.4)	

18 – Old/New Business

1.? 2.? 3.?



13 – Next Meeting 2022



Naples, FL – Physical Meeting <u>Tent</u> – Date Wednesday October 5 – Thursday October 6th, 2022

Update: To Be Determined



Thank you for joining us!

We would like to receive your feedback, questions, and any comments on ways to improve our next meeting.

As always, please contact the SGCC office at any time sgcc@amscert.com

Adjournment: Mark Cody