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

MINUTES OF NINETY-FIFTH MEETING OF THE CERTIFICATION COMMITTEE MEETING
October 4th – 5th, 2022
Hybrid – Margaritaville Resort Orlando FL

Attendance Key

X	In Attendance with voting rights
Present	In Attendance
Absent	Not Present
Virtual	Online GoToWebinar
Virtual-X	Online BOD Member with voting rights

Members and Alternates Present

		Date and Votes Present	
		10/4/2022	10/5/2022
Al Abbar Architectural Glass	Mohammad Asif Ali	Absent	Virtual
American Glass Tempering and Fabricators, Inc.	Irene Lopez	X	Absent
American Glass Tempering and Fabricators, Inc.	Jessica Lopez	Present	Absent
Cardinal Glass	Bernie Herron	Present	Present
Cardinal Glass	DJ Weil	Virtual	Virtual
Cardinal Glass	Mark Cody	X	X
Cardinal Glass	Michelle Phan	Present	Present
Cardinal IG	DJ Weil	Virtual	Virtual
Eastman Chemical Company	Julia Schimmelpenningh	X	X
Extrusiones de Aluminio, S. A.	Jaime Salas	Virtual	Virtual
Guardian Glass	Jon Griggs	Virtual	Virtual
Intigral, Inc.	Mark Hutchinson	X	X
Midwest Glass Fabricators Inc.	Kyle Zink	Virtual	Virtual
Nashville Tempered Glass	Richard A Paschel	Virtual	Virtual
Oldcastle BuildingEnvelope®	James Jensen	Present	Present
Oldcastle BuildingEnvelope®	Rick Wright	X	X
Oldcastle BuildingEnvelope®	Jason Fisher	Virtual	Virtual
SAGE Electrochromic	Kimberly Lee	X	X
Selective Shower Glass Designs Inc.	Fabio Enrique Castiblanco	Virtual	Absent
Trulite Glass and Aluminum Solutions	Jeffery Haberer	X	X
Viracon	Brian Louks	Virtual - X	Virtual - X
Vitro Architectural Glass	William Davis	Virtual	Absent
White Aluminum Enterprises LLC	Diether Soriano	Absent	Virtual

Members by Virtue of Being a Director

		Date and Votes Present	
		10/4/2022	10/5/2022
Public Interest	Elaine Rodman	X	X
Public Interest	Patrick Loughran	X	X
Public Interest	Peter Weismantle	Virtual - X	Virtual - X
Public Interest	June Willcott	X	X
Public Interest	William Nugent	X	X
	Votes	**13**	**12**

Guests		**Date and Present**	
		10/4/2022	**10/5/2022**
ArentFox Schiff LLP	David McHugh	Present	Present
Blackwater Testing Lab	Michael Caldwell	Present	Present
Chem Source	Michael Turner	Virtual	Absent
Intertek	Kenny White	Virtual	Virtual
Intertek	Todd Wilt	Virtual	Virtual
Kuraray America, Inc.	Vaughn Schauss	Present	Present
National Glass Association	Urmilla Sowell	Present	Present

Administrative Staff		**Date and Present**	
		10/4/2022	**10/5/2022**
AMS, Inc.	John Kent	Present	Present
AMS, Inc.	Terry Schaefer	Present	Present
AMS, Inc.	Katrina Stafford	Virtual	Virtual
AMS, Inc.	Kelly Jenness	Virtual	Virtual
AMS, Inc.	Mitch Majewski	Present	Present
AMS, Inc.	Kristin Best	Present	Present
AMS, Inc.	James Shannon	Virtual	Virtual
AMS, Inc.	Sara Connor	Virtual	Virtual
AMS, Inc.	Tonya Cumoletti	Virtual	Virtual
	Persons Present	23	21
	Total Attendance (including Virtual)	42	39

MOTIONS

Agenda Item #	Ref #	Motion/Second	Motion	Vote A/N/A	P/F
3 Minutes	10.4.22.1	Mark Hutchinson / Bernie Herron	Approve the minutes from the September 29th – 30th, 2021 Virtual meeting.	UA	P
10 CAN/CGSB	10.4.22.2	Jeff Haberer / Mark Hutchinson	The latest version of CAN/CGSB 12.1-2022 the SGCC program approved adopting the new version with implementation by January 2024.	UA	P
11c	10.4.22.3	Rick Wright / Jeff Haberer	Motion to approve proposed wording for Lab Manual & QA Production Testing Guidance document: Topic 1: Specimen size – ~~is~~ Test sample(s) should be representative of normal production, at the discretion of the fabricator. Topic 2: When selecting particles for evaluation, if any portion of a particle is outside the exclusion area, the entire particle would be considered for evaluation.	UA	P
13a Laminated Glass	10.5.22.1	Julia Schimmelpenningh / Michelle Phan	Motion to accept Glass Modifications section and adopt into the current Laminated Guidance document. See Appendix A.	UA	P
16 Old/New Business	10.5.22.2	Jeff Haberer / Bernie Herron	Motion to accept the revised wording for the G.4 Guideline as written below: G.4 For insulating glass units to be considered safety glazing material, each lite in the construction (dual pane or multi-pane assemblies) must be of safety glazing material.	UA	P

ASSIGNMENTS & DISCUSSIONS (Action Items)

No./Topic	Assigned	Details	Due Date
5 Committee Structure	AMS	Patrick Loughran new Public Interest to sit on the Quick Action Sub Committee.	
9 Testing Results	AMS	Review and provide beta view to Board of Directors what Program testing failures could look like 'real time' to the participants in the CIP (username and password required). • failure by % failure rate • Boil and Impact failure rates separate.	
9 Testing Results	AMS	Future Ideas: • Per company, per plant compared to the rest of the industry. • MC details - Can we display the Coated Glass failure by thickness in chart form • Product historical performance • Additional Lami information • Other…	

11a	Lab SubCommittee	Step 1: Generate a report where labs are rated on an average 6 month TAT and displayed with the Median based on a rolling 6 months' time. Step 2: review Legal Agreement with the lab (implement in a manner that is within our legal requirements). Once thru these 2 steps bring to the Board for final approval.	
11b	Lab SubCommittee	Lab Sub Committee present new wording for the Lab manual: 1. to further clarify the "All Personnel performing SGCC testing" and the intent of what this means. 2. Implementation to the new version of CAN/CGSB 12.1-2022	
12	AMS	Provide Coated Glass data by thickness	
13	Laminated Glass	Following review and discussions of the Proposed Guidance document, continue working with guidance document task group as well as Sub Committee on a path forward: • Intent to try and make a single document for All Laminated Certification. • Survey the Laminated Glass industry on the 'thinnest laminated makeup'	
	All	**Next Meeting** Clayton NY September of 2023	

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 – 1:00pm
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 – June Wilcott
7. Administrator's Report
8. Quick Action Sub-Committee Report

Topics

9. Program Testing Results Review
10. ANSI Z97.1, CPSC, CAN/CGSB 12.1
11. Testing Laboratories
   a. Current Laboratory Turn Around Time
   b. IA Training Update
   c. Lab Manual
12. (M) Coated Glass
13. Laminated Glass – **END OF DAY 1**
   a. (M) Review *Guidance for the SGCC Certification of Laminated Glass* – Begin Day 2
   b. Accepted Interlayer List
14. Testing Obligations
15. New Technology
16. Old/New Business
17. Next Meeting - Adjourned Day 2 – 11:00am

Glass Modifications to Existing Certified Laminates

Glass Kind: Laminated glass is also certified by its base glass Kind (strength) or heat treatment (AN= annealed, HS= heat-strengthened, FT= tempered, CS= chemical strengthened). Certification with AN glass will cover HS, FT, and CS. Testing to HS will only cover HS and FT. Testing to FT will only cover FT. Testing to CS will only cover CS. Figure 2 and Table 5 are provided to help visualize and quickly determine if a change in glass kind requires testing.

Table 5 – Reference table for testing requirements for a change in glass Kind.

From	To	Acceptance
AN	HS	Automatic
AN	FT	Automatic
AN	CS	Automatic
HS	AN	TEST
HS	FT	Automatic
HS	CS	TEST
FT	AN	TEST
FT	HS	TEST
FT	CS	TEST
CS	FT	TEST
CS	HS	TEST
CS	AN	TEST

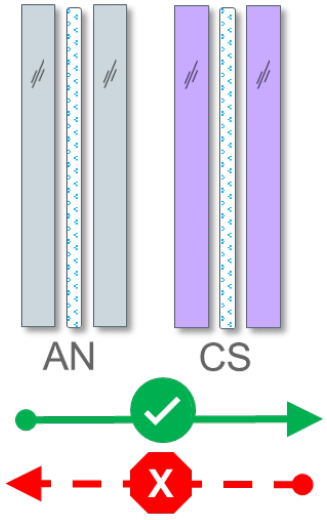


Figure 2: Diagram showing testing needs to change glass Kind for CS glass

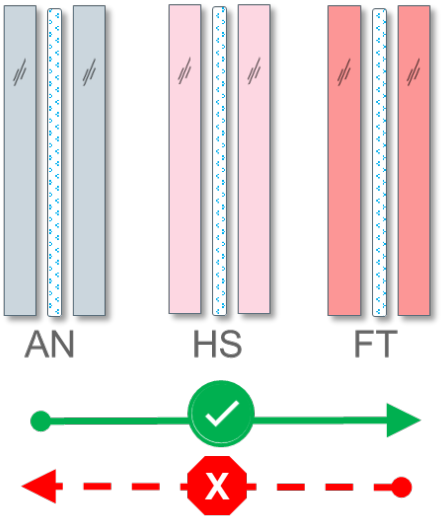


Figure 3 Diagram showing testing needs to change glass kind for AN, HS and FT.

Glass changes other than glass kind can also be modified without the need to test, provided a base configuration has been tested and meets the initial requirements. Figure 4 illustrates the configurations that are acceptable without additional weathering and impact.

Acceptable Modifications to Glass are the following: *See diagram below for further guidance.*

- Glass Metalized Coating: any change from uncoated to Low-e, reflective, sputtered (soft coat), pyrolytic (hard coat). The coatings are either toward the interlayer or on the exterior surfaces of the laminate.
- Decorative Coatings: Decorative coatings and prints which are inorganic and chemically bonded (fused) to glass (ceramic enamels) and within a laminated glass product, do not need additional testing and are included in certification if the base testing passes. Decorative coatings and prints which are organic or not chemically bonded (fused) to glass (elastomeric coatings, surface applied films or tapes) within a laminated glass product will require weathering and impact testing.
- Glass Color change
- Glass texture change (external to interlayer orientation only). This must be towards the exterior of the laminate and not in contact with the interlayer.

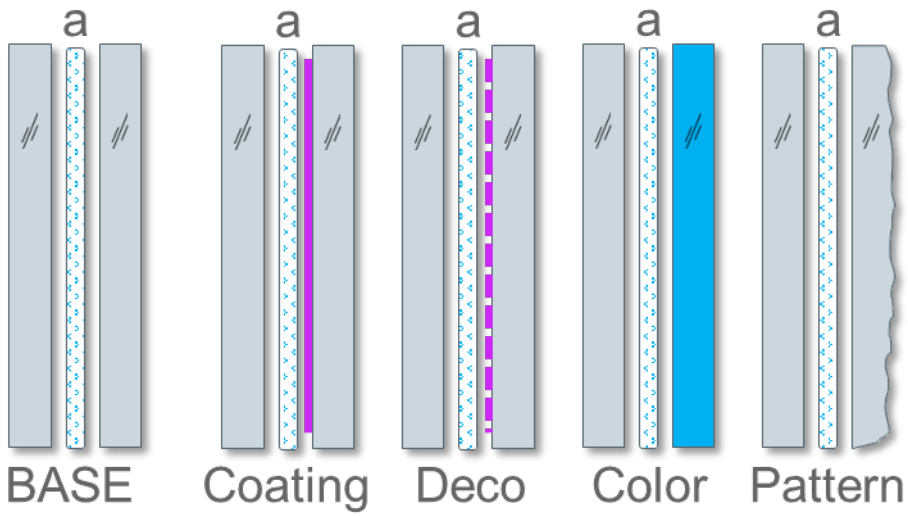
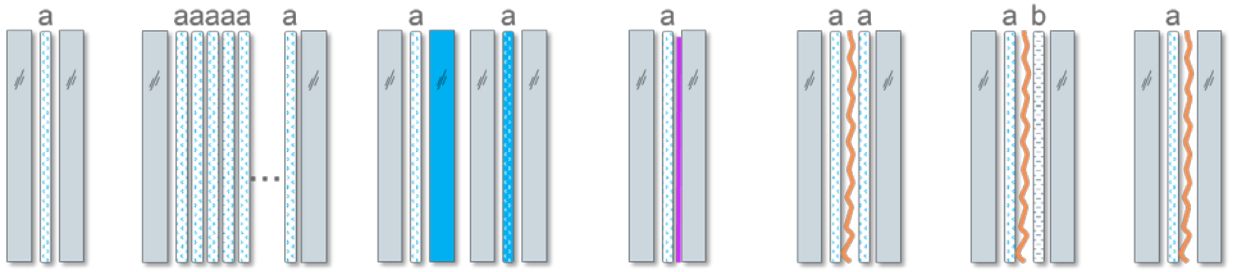


Figure 4: Allowable changes in or on glass without the need for additional weathering or additional impact.

A summary of the interlayer or insert changes which either qualify for automatic acceptance or require weathering and/or impact are visually outlined and detailed in Figure 5.



Test Type	Base	Thickness	Color	Coating Print	Encap 1	Encap 2	Insert
Description	Qualified base product	Increase in interlayer thickness	Glass or interlayer color change	Coating or print applied to glass toward interlayer	Insert between qualified interlayers	Insert between qualified and **unqualified** interlayer	Insert between glass and interlayer
Weathering	Required	Not Required	Not Required	Not Required	Not Required	Required	Required
Impact	Required	Not Required	Not Required	Not Required	Not Required	Required	Required

LEGEND

a = qualified interlayer (min thickness)

b = unqualified interlayer

= coating or print (continuous or non-continuous)

= insert (continuous or non-continuous)

Figure 5: Changes to laminates with regard to interlayer contact to glazing or inserts

In summary, color changes, decorative or metalized coatings on glass such as pyrolytic (hard coat), sputtered (soft coat), ceramic enamels; and acid etch or sandblast (thinnest section no less than thickness qualified), in contact with the interlayer, or inserts are automatically accepted without the need for further testing if the interlayer is already on the SGCC accepted interlayer list with the following exceptions:

a.) The interlayer on either side of an insert must be the same or greater thickness than the interlayer qualified as a single layer with regard to the performance class tested (Class A (Cat II) or Class B (Cat I)).
b.) The insert material is placed between an interlayer and the glass, then weathering and impact must be done (even if the interlayer is already accepted).

If an interlayer is not already accepted by SGCC, then weathering and impact must be done.

The 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.

2022 SGCC® Fall Certification Committee Meeting

October 4th – 5th , 2022

Schedule

Day 1 – Tuesday October 4th

1:00 – 5:00pm Eastern – SGCC Certification Committee Meeting
5:00 – 5:15pm Eastern – SGCC Participants Meeting
6:00 – 9:00pm Eastern – In Person Reception

Day 2 – Wednesday October 5th

7:30am - 8:00am Eastern – Light Breakfast provided
8:00am - 12:00pm Eastern – SGCC Certification Committee Meeting

SGCC Certification - GoToWebinar

Open/Close Control Panel

Mute / Unmute

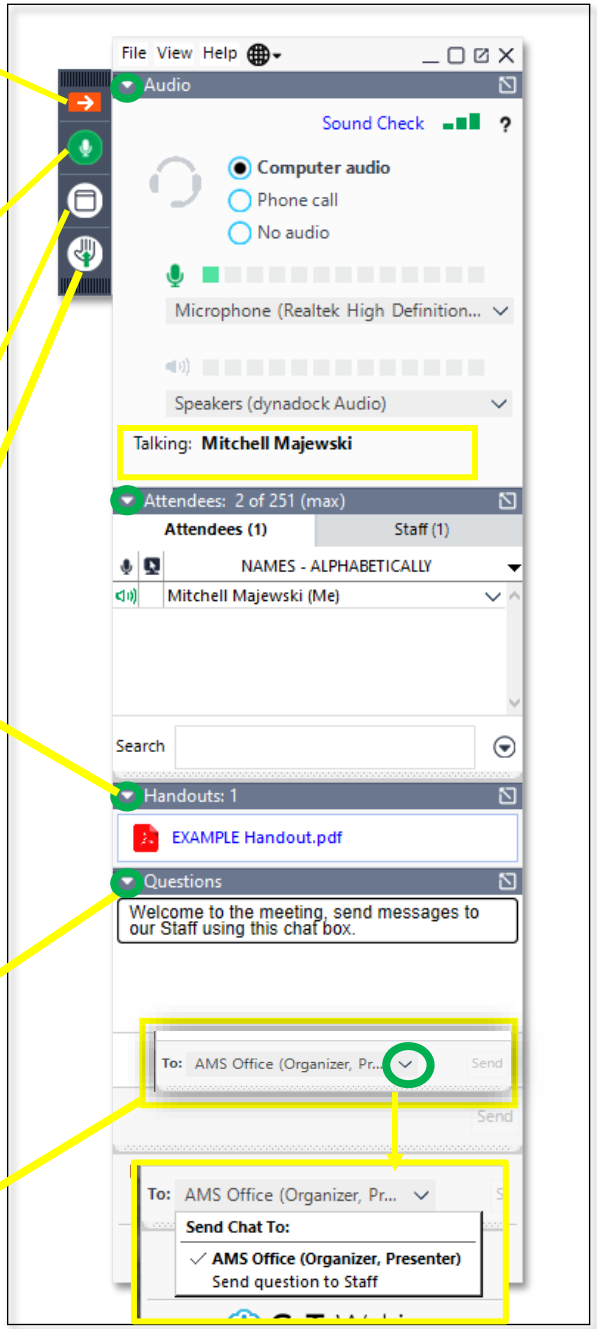
Toggle Fullscreen

"Raise/Lower your hand"

Download/Open a Handout
Material that we will be going over during the meeting

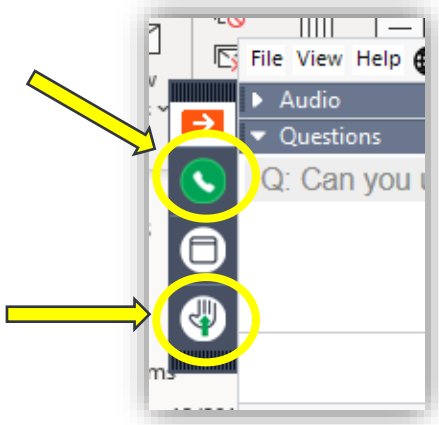
Expand/Collapse Control Options ( )

Submit Questions to Staff



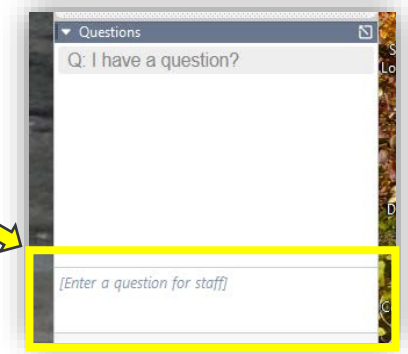
Once the meeting begins, we will ask everyone to Mute themselves.
How to ask a question?

1. If it is a time for questions Unmute 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 unmute yourself.

3. Or you can type your question in the "Questions" chat box:



Webcams are disabled

To Open the Control Panel

Ground rules for Hybrid Meeting

- We have microphones around the room, please speak into the mic when talking so in person and virtual attendees can hear the correspondence clearly.
- We will start people unmuted. If background noise gets too great, we will mute people, and you'll need to unmute again to speak.
- How to be recognized (raise hand or type question in the chat)
- Voting will only be done for In Person attendees
- Session IS **NOT** being recorded
- The presentation material was sent out prior to the meeting, but also can be downloaded for virtual attendee or printed booklets for In person attendees
- Roll call and introductions In Person – please sign attendance sheet, GoToWebinar will be used for virtual attendees

Staff Introductions

Internal routing is our problem… Call AMS and anyone of us will help you

John Kent
SGCC Administrative Manager

Terry Schaefer
Vice President
Tschaefer@amscert.com

Katrina Stafford
AMS Quality Management System
SGCC Committee
kstafford@amscert.com

Kristin Best
Program Manager
kbest@amscert.com

Kelly Jenness
Auditor Coordinator
kelly@amscert.com

Ken Potter
Software Development
kpotter@amscert.com

Sara Connor
Day to Day
Program Coordination
sconnor@amscert.com

Tonya Cumoletti
Day to Day
Program Coordination
tcumoletti@amscert.com

Olivia Aubin
Audits & Lab Liaison
Oaubin@amscert.com

Mitch Majewski
Technical Support
Interactive Animation
Software Development
Mmajewski@amscert.com

SGCC
safety glazing certification council

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. ANSI Z97.1, CPSC, CAN/CGSB 12.1
11. Testing Laboratories
    a. Laboratory Approval Status
    b. IA Training Update
    c. (M) SGCC Lab Manual
13. Coated Glass
14. Laminated Glass
    a. (M) Laminated Guidance Material
    b. Accepted Interlayer List
15. Testing Obligations
16. New Technology
17. Old/New Business
18. Next 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.
3. 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 Products)
- Participants (w/ signed agreement)

Quorum

- 10 Certification Committee members

Link to SGCC By Laws:

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

Motions

<table>
<tr><th>Agenda Item #</th><th>Ref #</th><th>Motion/Second</th><th>Motion</th><th>Vote A/N/A</th><th>P/F</th></tr>
<tr><td>3 Minutes</td><td>9.29.21.1</td><td>Mark Hutchinson / Brian Louks</td><td>Approve the minutes from the October 1st, 2020 Virtual meeting</td><td>UA</td><td>P</td></tr>
<tr><td>12a Laboratory Approval</td><td>9.29.21.2</td><td>Brian Louks / Mark Hutchinson</td><td>Re-approved the list of SGCC approved testing laboratories as presented for another 2 year period contingent on continued performance & compliance to SGCC requirements.</td><td>UA</td><td>P</td></tr>
<tr><td>12b Laboratory Manual</td><td>9.29.21.3</td><td>June Willcott / Bernie Herron</td><td>Approved the below noted revisions to the SGCC Laboratory Manual.
<table>
<tr><th>REVISIONS</th><th>Section</th></tr>
<tr><td>Fee change submission date (September 15th)</td><td>A.3</td></tr>
<tr><td>Note to allow signed and dated test report cover page attached to each report</td><td>A.11</td></tr>
<tr><td>Section to allow for virtual inspections</td><td>A.13</td></tr>
<tr><td>Section for approved coated glass meters</td><td>C.14</td></tr>
<tr><td>Representative Key Parameters table for 2017 CAN/CGSB</td><td>C.15</td></tr>
<tr><td>Section for measuring/validating pattern depth</td><td>D.8</td></tr>
<tr><td>MM Nominal Thickness values to table</td><td>E.2</td></tr>
<tr><td>Clarification on timing of measuring laminated product interlayer</td><td>E.4</td></tr>
<tr><td>Updated sample test report to clarify commonly forgotten parts</td><td>Pg.15-17</td></tr>
</table></td><td>UA</td><td>P</td></tr>
<tr><td>14 Laminated Glass</td><td>9.30.21.1</td><td>Rick Wright / Bill Nugent</td><td>Authorized the Laminated Glass Sub-Committee to review and approve the new Guidance material for the SGCC Certification of Laminated Glass</td><td>UA</td><td>P</td></tr>
<tr><td>15 QA Requirements</td><td>9.30.21.2</td><td>Mark Hutchinson / Rick Wright</td><td>Approved the addition of the “Optical Scanner” to the Tempered Suitable Alternatives table for Production Testing found within the Guidance for the SGCC Quality Assurance Production Testing</td><td>UA</td><td>P</td></tr>
</table>

3- Approval of Minutes

Assignments ***continued***

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

Agenda #3:

Motion to approve the minutes from the September 29th – 30th, 2021 Virtual meeting

Link to Full Meeting Minutes:

Adobe Acrobat Document

Motion
1st: Mark Hutchinson
2nd: Bernie Herron
Vote: UA
12/0/0 **Pass**

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

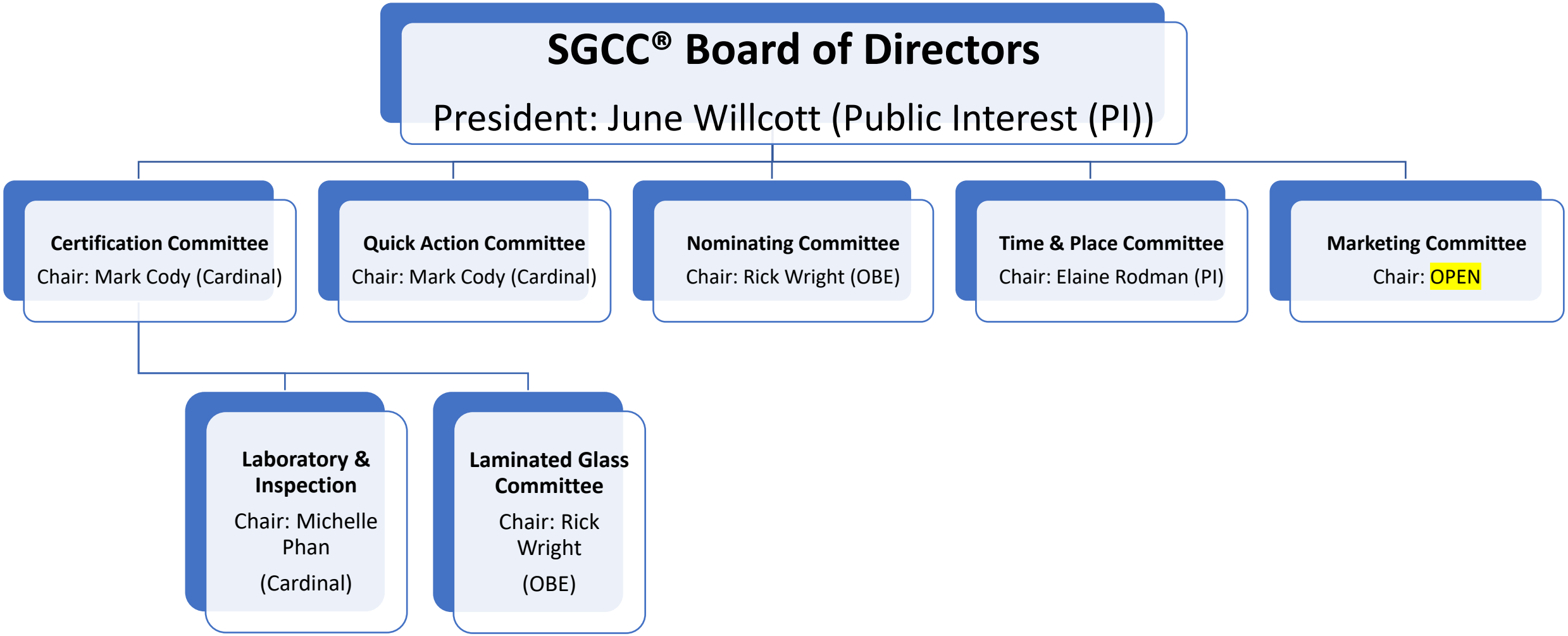
f. Current or future price information and pricing plans, bidding plans, refund or rebate plans, discount plans, credit plans, specific product costs, profit margin information or terms of sale.

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

Adobe Acrobat Document

5 - Committee Structure



5 - Committee Structure

SGCC Board of Directors	President: June Willcott
Scope: The overall affairs of the Council shall be managed by its Board of Directors.	
Members	
Public Interest	Business Community
June Willcott - President	Rick Wright – Vice 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 formulate, review, administer and apply a certification program for the Council.	
Members	
All Licensees and Board Members	

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

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

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

*Need a new Public Interest Representative.
Any Volunteers?

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 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.	

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
Brian Louks - Viracon	Michelle Phan - Cardinal
Tim Moore – W. A. Wilson Inc.	Mark Cody – Cardinal
Jeff Haberer - Trulite	Urmilla Sowell – NGA
Robert Carlson – Tristar Glass	

6 – Board of Directors Report

June Willcott - President

1. Review of Board Membership and Status
2. Financial Matters
3. ANSI/ISO 17065 Accreditation Status
4. Designated expenditures
5. Next Meeting

7 – Administrative Report

Certified Products Directory (CPD)

January – Hard copy printed and mailed, electronic copy distribution

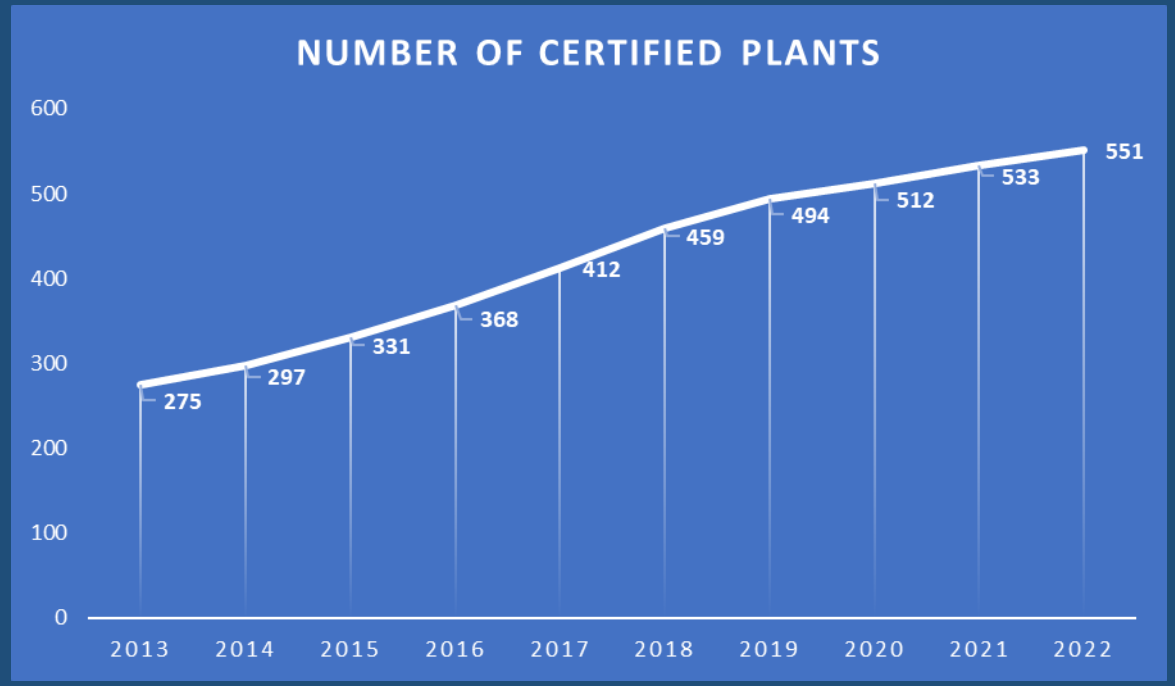
July – Electronic copy distribution

January Hard Copies Mailed	Electronic Copies Distributed		Subscription List (E-mail and Physical Addresses)
	January*	July	
2262	1865	1808	2331

ADMINISTRATIVE ACTIVITY

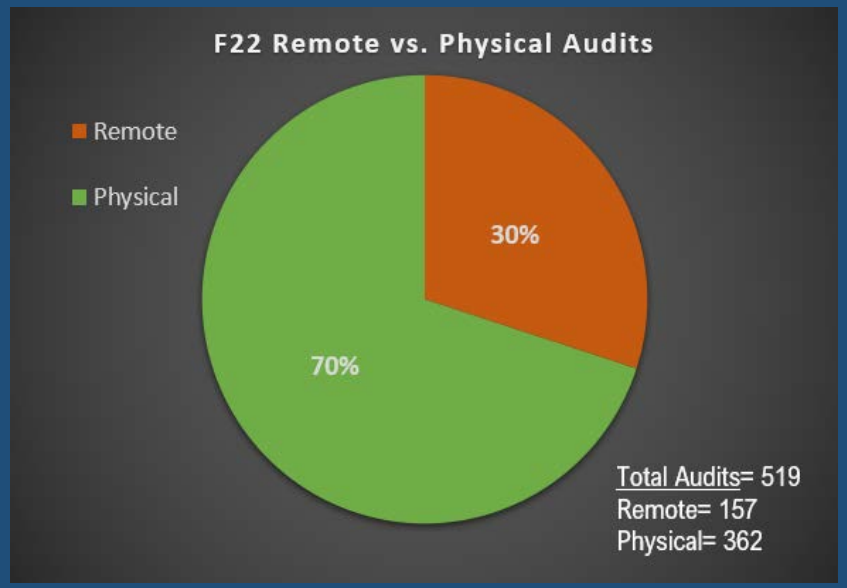
October 2021	Memo New Approved Coated Glass Guidelines
January 2022	Updated Guidance for the SGCC Quality Assurance Production Testing
January 2022	January 2022 Certified Products Directory
February 2022	Auditor Conference Training
April 2022	L22 Invoices
July 2022	Auditor Conference Training
July 2021	Fall Meeting Announcement
July 2022	Coated Glass Mandatory – MC Designator
July 2022	July 2022 Certified Products Directory
August 2022	2022 IA Training Release
August 2022	Hybrid Meeting Approved
September 2022	SGCC Test Fee Schedule
October 2022	F23 Invoices

7 – Administrative Report

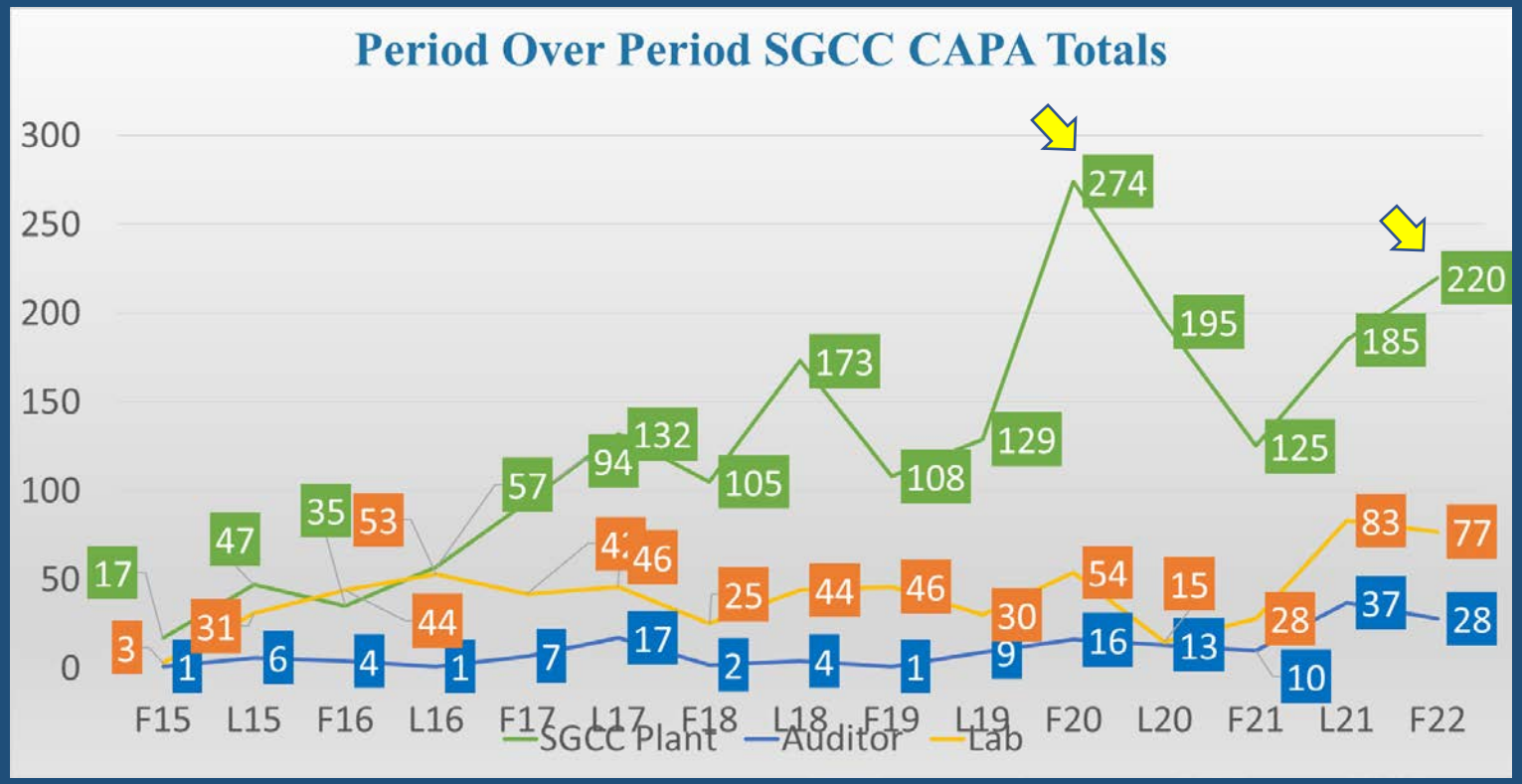


	2017 As of Sept	2018 As of Sept	2019 As of Sept	2020 As of Sept	2021 As of Sept	2022 As of Sept
No. of Plants	412	459	494	512	533	551
% increase in Plants	+12%	+11%	+8%	+4%	+4%	+3%
Offshore Plants	111	141	155	162	183	184
% increase in Offshore Plants	+6%	+27%	+10%	+5%	+13%	+1%
No. of Licensees	283	335	376	399	416	437
Total Certified Products	2646	2837	3008	3197	3265	3339
% increase in Certified Products	+15%	+7%	+6%	+4%	+2%	+2%
Products ANSI ONLY	0	0	1	1	1	1
Products CPSC ONLY	0	0	0	0	0	0
Products COMPOSITE	1340	1420	1390	1401	1378	1356
Products COMP+CAN	1306	1417	1617	1795	1886	1982
Plants COMP+CAN	175	197	238	266	291	317

7 – Administrative Report



Implemented Remote Audits L20, continue to see capturing of CAPAs during both remote & physical audits.



Plant CAPA Numbers

New Quality and testing requirements made mandatory 1/1/2020.

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	June Willcott
Certification Committee Chair	Mark Cody
Public Interest	~~June Willcott~~ Patrick Loughran

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

9 – Program Testing Results Review - Historical

		Selections (% of total products)				Product Failures (Calendar Year)				Failures													
						Total Failures				Tempered			Tempered (TTG)			Tempered (TPG)			Laminated Impact			Laminated 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
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%
2014	3485	87%	13%	91%	9%	80	2.3%	89%	11%	43	54%	1.4%	27	34%	0.9%	16	20%	0.5%	28	35%	8.6%	8	10%	2.5%
2013	3304	92%	8%	90%	10%	89	2.7%	97%	3%	61	69%	2.0%	50	56%	1.7%	10	11%	0.3%	21	24%	6.6%	5	6%	1.6%
2012	3219	86%	14%	91%	9%	99	3.1%	86%	14%	80	81%	2.7%	49	49%	1.7%	29	29%	1.0%	15	15%	5.1%	6	6%	2.0%
2011	3146	72%	28%	91%	9%	98	3.1%	78%	22%	76	78%	2.7%	43	44%	1.5%	32	33%	1.1%	9	9%	3.2%	7	7%	2.5%
2010	2986	64%	36%	93%	7%	72	2.4%	90%	10%	57	79%	2.0%	40	56%	1.4%	17	24%	0.6%	10	14%	4.9%	3	4%	1.5%
2009	2846	48%	52%	95%	5%	66	2.3%	71%	29%	43	65%	1.6%	23	35%	0.9%	17	26%	0.6%	17	26%	12.1%	6	9%	4.3%
2008	2743	47%	53%	94%	6%	66	2.4%	53%	47%	48	73%	1.9%	34	52%	1.3%	12	18%	0.5%	12	18%	7.7%	3	5%	1.9%
2007	2549	47%	53%	92%	8%	71	2.8%	62%	38%	48	68%	2.0%	N/A	NA	NA	N/A	NA	NA	20	28%	10.0%	3	4%	1.5%
2006	2089	41%	59%	94%	6%	65	3.1%	83%	17%	48	74%	2.5%	N/A	NA	NA	N/A	NA	NA	8	12%	6.1%	9	14%	6.9%
2005	1729	53%	47%	95%	5%	31	1.8%	65%	35%	25	81%	1.5%	N/A	NA	NA	N/A	NA	NA	5	16%	5.8%	1	3%	1.2%
2004	1620	42%	58%	N/A	N/A	36	2.2%	67%	33%	N/A	N/A	NA	N/A	NA	NA	N/A	NA	NA	N/A	N/A	NA	N/A	N/A	NA
2003	1536	24%	76%	N/A	N/A	31	2.0%	55%	45%	N/A	N/A	NA	N/A	NA	NA	N/A	NA	NA	N/A	N/A	NA	N/A	N/A	NA
2002	1470	43%	57%	N/A	N/A	26	1.8%	81%	19%	N/A	N/A	NA	N/A	NA	NA	N/A	NA	NA	N/A	N/A	NA	N/A	N/A	NA
2001	1373	55%	45%	N/A	N/A	33	2.4%	76%	24%	N/A	N/A	NA	N/A	NA	NA	N/A	NA	NA	N/A	N/A	NA	N/A	N/A	NA
2000	1281	72%	28%	N/A	N/A	21	1.6%	33%	67%	N/A	N/A	NA	N/A	NA	NA	N/A	NA	NA	N/A	N/A	NA	N/A	N/A	NA

Link to Full Chart:

Adobe Acrobat Document

9 – Program Testing Results Review

Year	Total Specimens Tested (Sets)	Selections (% of total products)				Product Failures (Calenda			Testing Failures											
						Total Failures			Tempered (All)			Tempered (TTG)			Tempered (TPG)			Laminated Impact			Laminated Boil		
		Participant %	Inspector %	Total Tempered Products %	Total Laminated Products %	Total Failures (Testing, Label, Thickness)	Total **Testing** Failures	Total **Testing** Failures (%)	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
2022 to date	4252	90%	5%	87%	13%	145	114	2.7%	86	75%	2.3%	62	54%	1.7%	20	18%	0.5%	25	22%	4.6%	3	3%	0.6%
2021	6393	93%	3%	87%	13%	220	161	2.5%	110	68%	2.0%	82	51%	1.5%	24	15%	0.4%	36	22%	4.4%	15	9%	1.8%
2020	5975	91%	2%	87%	13%	157	113	1.9%	76	67%	1.5%	61	54%	1.2%	12	11%	0.2%	27	24%	3.6%	9	8%	1.2%
2019	6240	91%	2%	88%	12%	204	137	2.2%	91	66%	1.7%	65	47%	1.2%	23	17%	0.4%	37	27%	5.0%	9	7%	1.2%
2018	5624	87%	5%	89%	11%	201	125	2.2%	78	62%	1.6%	45	36%	0.9%	29	23%	0.6%	38	30%	6.0%	9	7%	1.4%

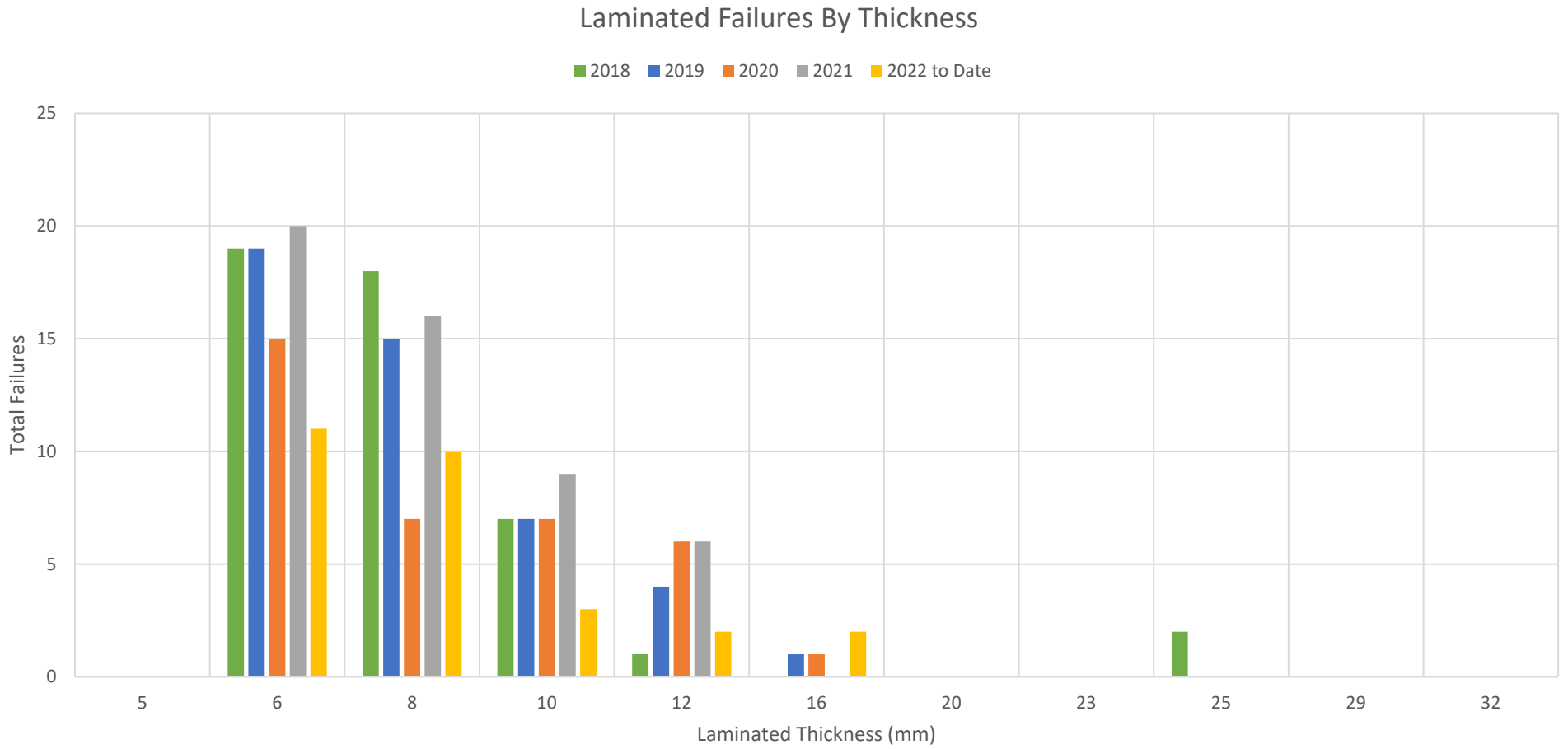
What other data points from the SGCC program may be helpful??
We are prepared to show the following Charts in real time on the CIP.

Link to Full Chart:

Adobe Acrobat Document

9 – Program Failure Charts

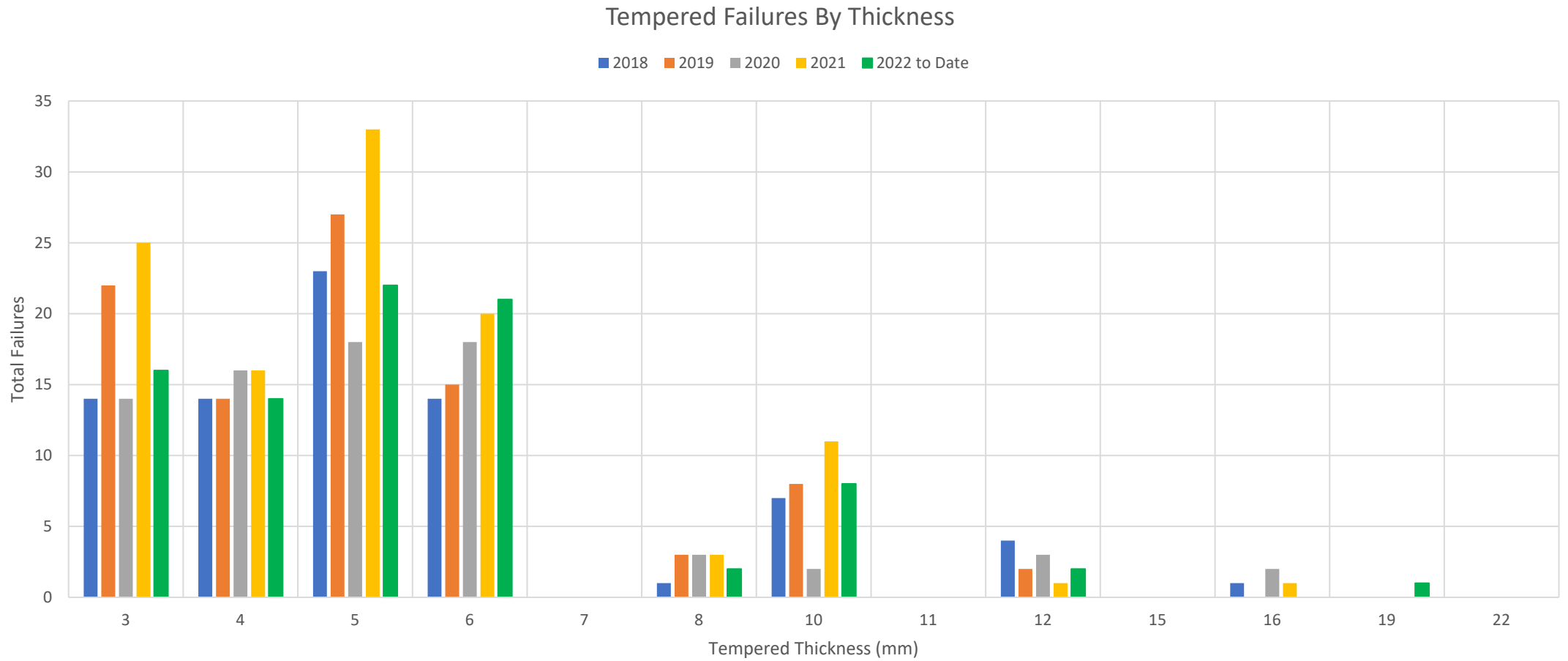
Total Failure Graphed



Total Products Tested	5	6	8	10	12	16	20	23	25	29	32
2022 to Date	6	127	209	92	73	29	0	0	2	1	2
2021	12	199	304	135	120	34	0	0	4	1	2
2020	12	179	289	131	115	30	0	0	2	1	1
2019	12	191	286	111	106	26	1	0	1	0	0
2018	11	162	268	84	85	18	2	1	3	0	0

9 – Program Failure Charts

Total Failure Graphed



Total Products tested	3	4	5	6	7	8	10	11	12	15	16	19	22
2022 to Date	423	387	664	692	2	272	611	0	429	35	75	114	0
2021	667	598	1012	1007	4	407	887	0	645	53	119	178	0
2020	633	552	931	964	4	349	830	0	608	51	109	177	0
2019	690	592	1004	1008	6	368	861	0	619	60	99	187	0
2018	675	561	916	901	4	307	747	1	533	53	108	175	0

9 – Program Failure Charts

- Believe we have the data structure to put the current charts (real time) on the CIP.

- Currently displaying only test failures
  - Is this view helpful?
  - Would you want to see all failures (testing, label, thickness)

Future –

- What other data or views would you be interested in seeing?
- (Confidentially) per company / per plant / compared to industry?
- Product historical performance
- Boil and Impact Failure Separately
- Failures By Percentage
- MC details
- Laboratory Failures
- API
- ???

10 – ANSI Z97.1, CPSC, CAN/CGSB 12.1

ANSI Z97.1
Published
September 2015
Reaffirmed
September 2020

CPSC 16 CFR 1201

CAN/CGSB – 12.1-2022
Published
February 2022

PART 1201 - SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS

Authority: Secs. 2, 3, 7, 9, 14, 19, Pub. L. 92-573, 86 Stat. 1212-17; (15 U.S.C. 2051, 2052, 2056, 2058, 2063, 2068).

Source: 42 FR 1441, Jan. 6, 1977, unless otherwise noted.

Subpart A - The Standard

§ 1201.1 Scope, application and findings.

(a) ***Scope.*** This part 1201, a consumer product safety standard, prescribes the safety requirements for glazing materials used or intended for use in any of the following architectural products:

(1) Storm doors or combination doors.
(2) Doors.
(3) Bathtub doors and enclosures.
(4) Shower doors and enclosures.
(5) [Reserved]
(6) Sliding glass doors (patio-type).

16 CFR 1201.1(a)(6) (enhanced display) page 1 of 13

Safety Glazing Materials used in Buildings

CAN/CGSB 12.1 -2022

- Marg Webb (FGIA retired) remains Canadian glass committee chair
- Committee currently wrestling with a code issue (ambiguity) that could be interpreted as allowing wired glass
- Funds available to support future glass standard development
- CAN/CGSB 12.1 (Safety Glass) **revised** in 2022
  - No substantive changes, but enough for a revision

CAN/CGSB-12.1-2022

Supersedes CAN/CGSB-12.1-2017

** Will require a labeling change and updated laboratory references

In inches
ABC Glass – Plant A (optional)
16 CFR 1201 II
ANSI Z97.1-2015
CAN/CGSB 12.1-~~2017~~2022
1/4 U A SGCC 9999

Motion to Adopt CAN/CGSB 12.1 – 2022 into SGCC program. Required label change by 1/2024

Motion
1st: Jeff Haberer
2nd: Mark Hutchinson
Vote: UA
12/0/0 **Pass**

CPSC 16 CFR 1201

PART 1201 - SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS

Authority: Secs. 2, 3, 7, 9, 14, 19, Pub. L. 92-573, 86 Stat. 1212-17; (15 U.S.C. 2051, 2052, 2056, 2058, 2063, 2068).

Source: 42 FR 1441, Jan. 6, 1977, unless otherwise noted.

Subpart A - The Standard

§ 1201.1 Scope, application and findings.

(a) ***Scope.*** This part 1201, a consumer product safety standard, prescribes the safety requirements for glazing materials used or intended for use in any of the following architectural products:

(1) Storm doors or combination doors.

(2) Doors.

(3) Bathtub doors and enclosures.

(4) Shower doors and enclosures.

(5) [Reserved]

(6) Sliding glass doors (patio-type).

§ 1201.4 Test procedures.

Except as provided in §§ 1201.1(c) and (d), architectural glazing products shall be tested in accordance with all of the applicable test provisions of ANSI Z97.1–2015 ''*American National Standard for Safety Glazing Materials Used in Building—Safety Performance Specifications and Methods of Test*,'' approved March 2015. The Director of the Federal Register approves the incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You may obtain a copy from ANSI Customer Service Department, 25 W. 43rd Street, 4th Floor, New York, NY 10036. You may inspect a copy at the Office of the Secretary, U.S. Consumer Product Safety Commission, Room 820, 4330 East West Highway, Bethesda, MD 20814, telephone 301–504–7923, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: *http://www.archives.gov/federal-register/cfr/ibr-locations.html*.

[81 FR 15431, Mar. 23, 2016]

ASC Z97 Committee Leadership

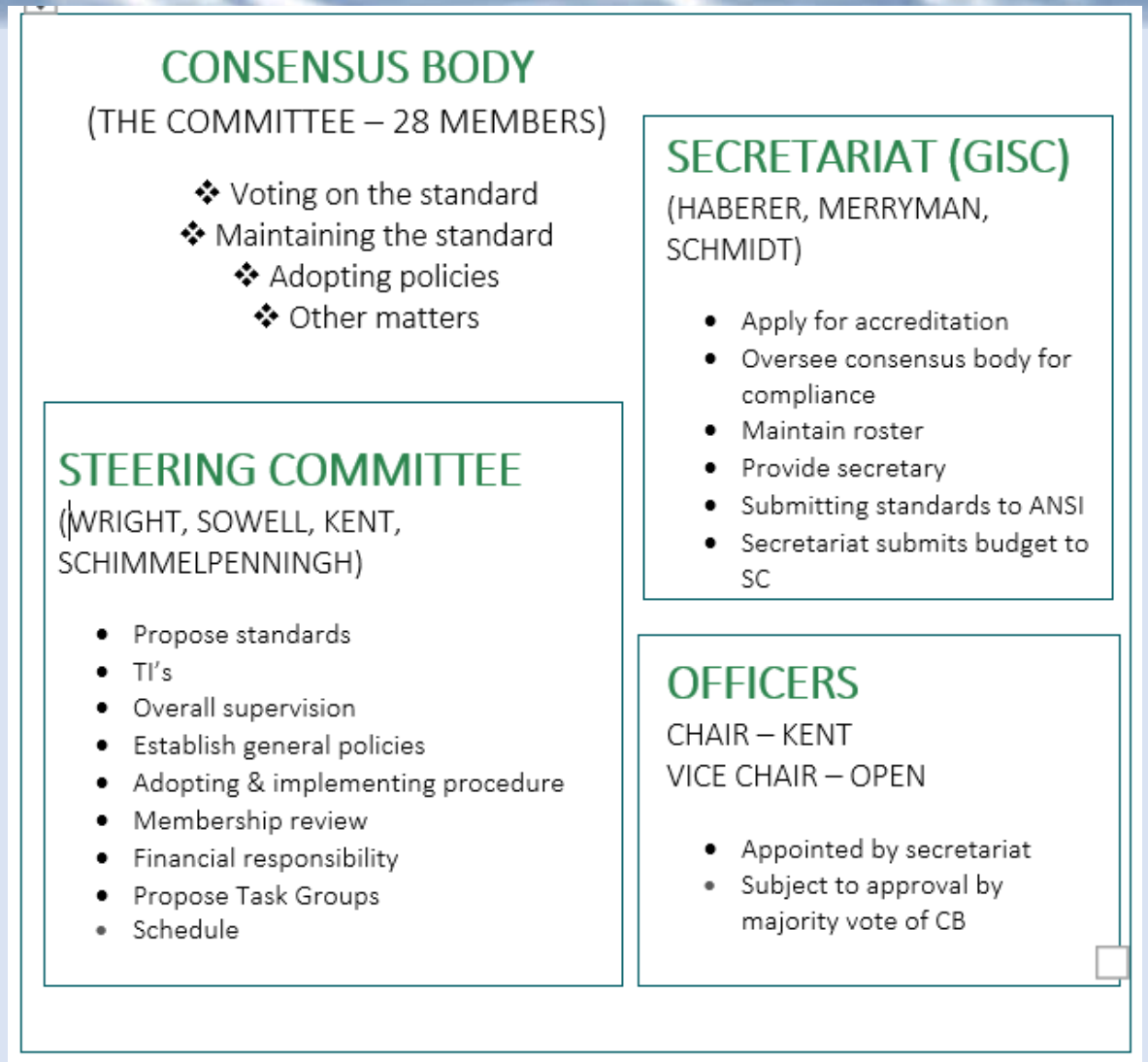
- **Secretariat:** GISC (Re-affirmed for another term)
  - Jeff Haberer (Chair); Ilona Schmidt;

  Shane Merryman (Plus Committee Chair and Secretary

  (Julia and John))
- **Committee Officers:**
  - John Kent (Chair); Open (Vice-Chair);

  Julia Schimmelpenningh (Secretary)
- **Steering Committee:**
  - John Kent (General); Urmilla Sowell (NGA);

  Rick Wright (OBE); Julia Schimmelpenningh (Eastman)



ASC Z97 Committee Update

ANSI Z97.1-2015 (R2020)

- June 10th full committee and SC call
  - A. Re-organize committee
  - B. Update status
  - C. Where do we go from here? (Action due 2025)
- Committee is out of balance (due to rule change, other) 28 Members

Actively soliciting non "Fabricator/Distributor" members

- Straw poll to be sent
  - Reaffirm - in the interest of harmonization – 15 votes
  - start revisions (several pending issues) – 3 votes
- Next committee call Nov 14th, 2:00 Eastern


ASC Z97.1 ANSI ACCREDITED STANDARDS COMMITTEE

Safety Requirements for Architectural Glazing Materials

Chairman: K. Olah, 2300 Harmon Road, Auburn Hills, MI 48326, Phone: 248-340-2141; E-mail: KOLAH@Guardian.com
Secretary: J.C. Schimmelpenningh, 730 Worcester Street, Springfield, MA 01151, Phone: 413-730-3413; E-mail: JCSCHI@Solutia.com

Membership Request
ASC Z97 Committee

1. Type of membership:
   - Organizational
   - Individual
2. Please provide the following basic information:
   - Name/Title: _____
   - Organization: _____
   - Address: _____
   - Telephone: _____
   - FAX: _____
   - E-mail: _____
   - Website: _____

SGCC Laboratory & QA Inspection Sub Committee

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 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.	

11. SGCC Testing Laboratories - Approval Status
    a. Laboratory Turn Around Time
    b. Lab training Exam
    c. (M) Lab Manual – QA Production testing Guidance Document

12. Coated Glass

11 – SGCC Laboratory Approval Status (Last updated 9/21/2022)

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

Company	Location	Date of Last Inspection	Date of Initial Approval	Approved by Program CC (date)	Accredited to ISO/IEC 17025 Agency **	No. of C Plants	Lab Agreement (date)
Intertek	Cortland, NY	6/15/2021	1981	9/29/2021	IAS TL-212	16	12/10/2015
	Fresno, CA	EST 11/2022	11/18/1997	9/29/2021	IAS TL-264	77	11/13/2015
	Fridley, MN	11/3/2021	10/6/1992	9/29/2021	IAS TL-285	27	11/13/2015
	Kent, WA	EST 11/2022	10/29/2009	9/29/2021	IAS TL-330	20	11/13/2015
	Lithia Springs, GA	5/10/2022	5/17/2012	9/29/2021	IAS TL-338	27	11/13/2015
	Montreal QC	EST 11/2022	2/20/2015	9/29/2021	SCC 1003-15/84	42	1/28/2015
	Plano, TX	11/3/2021	7/1/2004	9/29/2021	IAS TL-331	59	11/13/2015
	Springdale, PA	EST 10/7/2022	11/5/2018	9/29/2021	IAS TL-361	8	7/16/2018
	York, PA	6/7/2021	6/30/1985	9/29/2021	IAS TL-144	51	11/13/2015
	Vancouver, BC	EST 11/2022	9/19/2017	9/29/2021	IAS TL-274 & SCC#1003-15/74	6	7/24/2017
QAI Laboratories	Medley, FL	11/17/2021	10/2/1997	9/29/2021	A2LA #3308.01	89	10/19/2015
National Certified Testing Laboratories, Inc.	Everett, WA	11/10/2021	10/14/1997	9/29/2021	A2LA #3054.03	8	10/19/2015
	York, PA	6/8/2021	5/19/2011	9/29/2021	A2LA #3054.01	23	10/19/2015
Bowser-Morner, Inc.	Dayton, OH	11/5/2021	1991	9/29/2021	L-A-B #L2444	18	10/22/2015
Construction Consulting Laboratory West	Ontario, CA	8/17/2022	11/19/1997	9/29/2021	IAS TL-226	31	12/4/2015
Element Materials Technology	Des Moines, IA	11/2/2021	6/11/1999	9/29/2021	A2LA #1479.02	20	12/1/2015
PRI Construction Materials Technologies	Tampa, FL	11/18/2021	5/19/2017	9/29/2021	IAS TL-189	18	4/19/2017
Molimo	York, PA	6/7/2021	3/27/2019	9/29/2021	IAS TL-678	11	3/26/2019

11a – SGCC Laboratory Turn Around Time

We continue to monitor and collect Program data. Is there a way that we can provide Fabricators with this information to help future planning?

Lab	# Tested 2022	Avg TAT 2022	Max 2022	Min 2022	# CAPA 2022	Rank
A	145	12	26	2	13	1
B	383	16	43	0	5	1
C	66	18	40	4	2	1
D	220	21	64	1	8	2
E	152	23	68	1	1	2
F	54	29	75	8	1	2
G	479	29	96	0	6	2
H	248	32	83	7	5	3
I	44	38	89	1	4	3
J	222	38	77	1	5	3
K	107	41	85	0	1	3
L	131	44	98	2	0	3
M	48	46	73	5	3	3
N	578	46	100	6	17	3
O	123	47	94	0	9	3
P	273	56	156	10	6	3
Q	126	59	117	9	5	3
R	38	117	217	10	8	4

Average TAT (Days) per lab per year

Date: Lab Rec vs. Report Rec

SGCC Lab Manual states 'no later than 30 days'

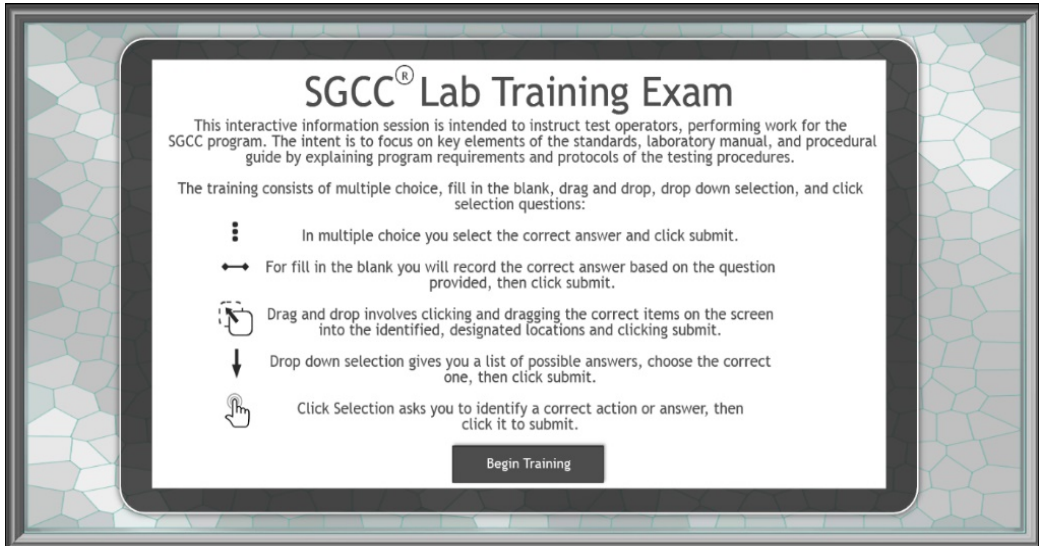
>=30 days

Avg TAT Days	Rating
0-20	1
21-30	2
31-60	3
>60	4

Question: Would SGCC Fabricators like to have a report like this posted to the SGCC Public website (or CIP) every month?

11b –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.*



Important Feedback from Technicians:

Technician 1: "Very useful test"

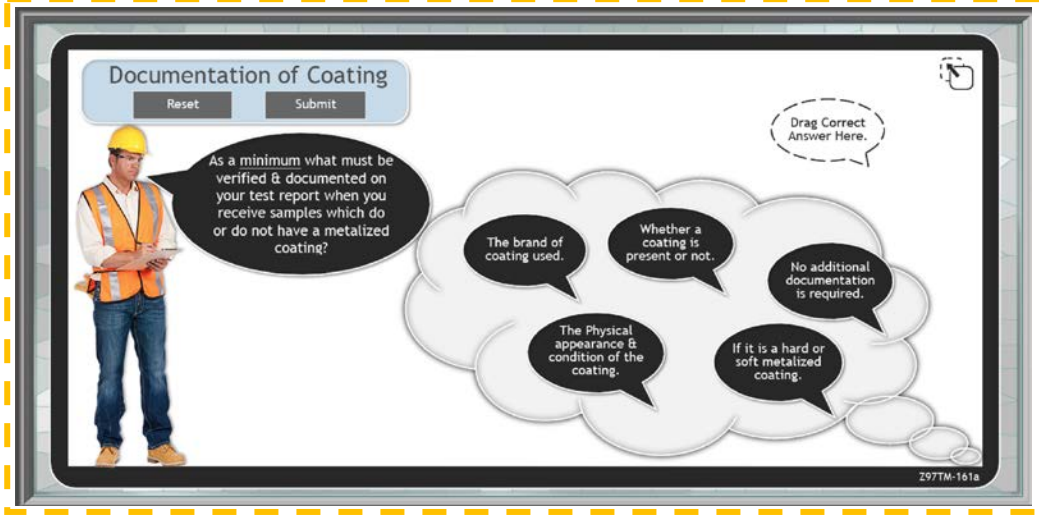
Technician 2: "If any question was answered incorrectly, the "wrong answer" prompted the exact area where the answer can be located and to have that refresher is very nice!"

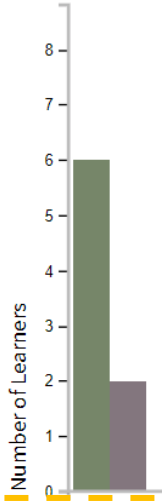
Technician 3: "I believe there should be a segment about the new Coating specs that we need to document on reports and the SRFs."

Lab Personnel to Complete the Exam	
2019	35
2020	51
2021	53
2022 YTD	8

11b –SGCC Interactive Lab Training

What's New for the 2022 Release?



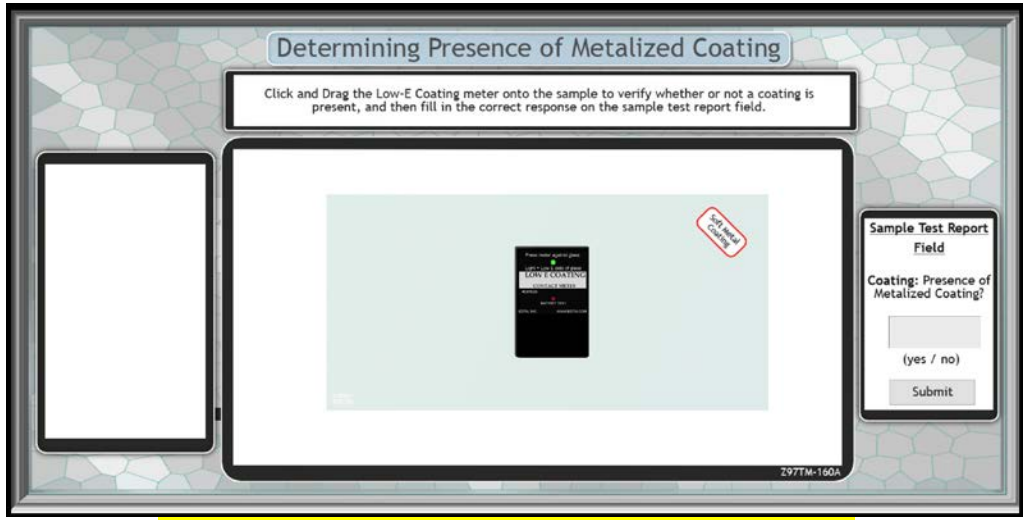


The lab training allows us to clarify details annually.

Do we need additional clarification to labs?

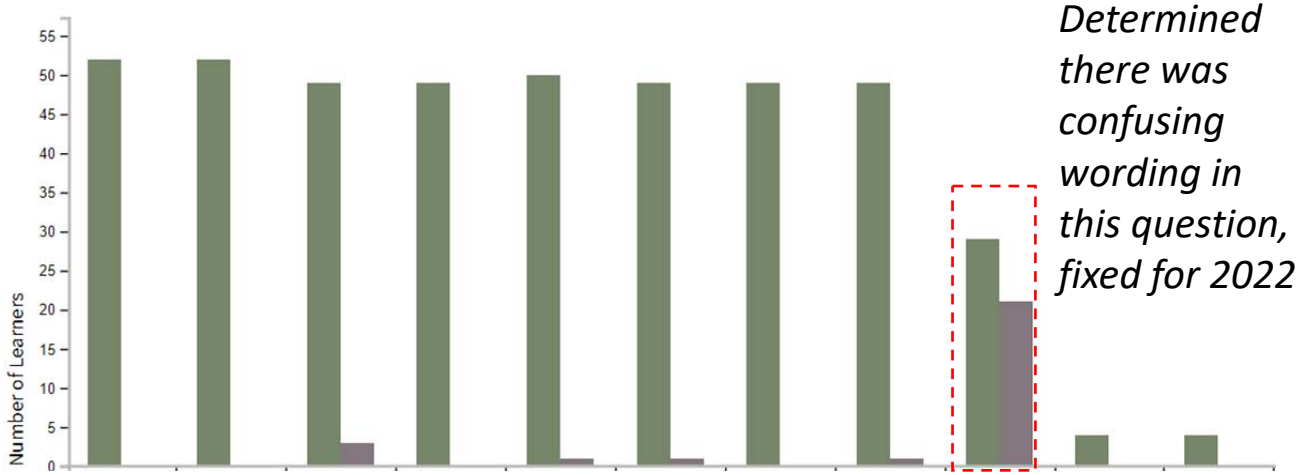
Results analyzed for each question

85 % said they would recommend to a colleague



Questions on laboratory testing and reporting requirements for coated glass.

Measurements with ANSI Z97.1 and ASTM C1036



Determined there was confusing wording in this question, fixed for 2022

11c – Lab Manual & QA Production Testing Guidance Document

Topic 1: Minimum sample size for Center Punch production testing of tempered glass.

Laboratory and Inspection Subcommittee discussed the minimum dimensions based on surface area of sample and exclusion area surface area but advised against SGCC setting a minimum acceptable size.

Subcommittee Recommendation:

SGCC should not define the minimum sample size for Center Punch testing. Using a "minimum" size not representative of real-world safety products, is not the intent of SGCC's Production Testing requirements.

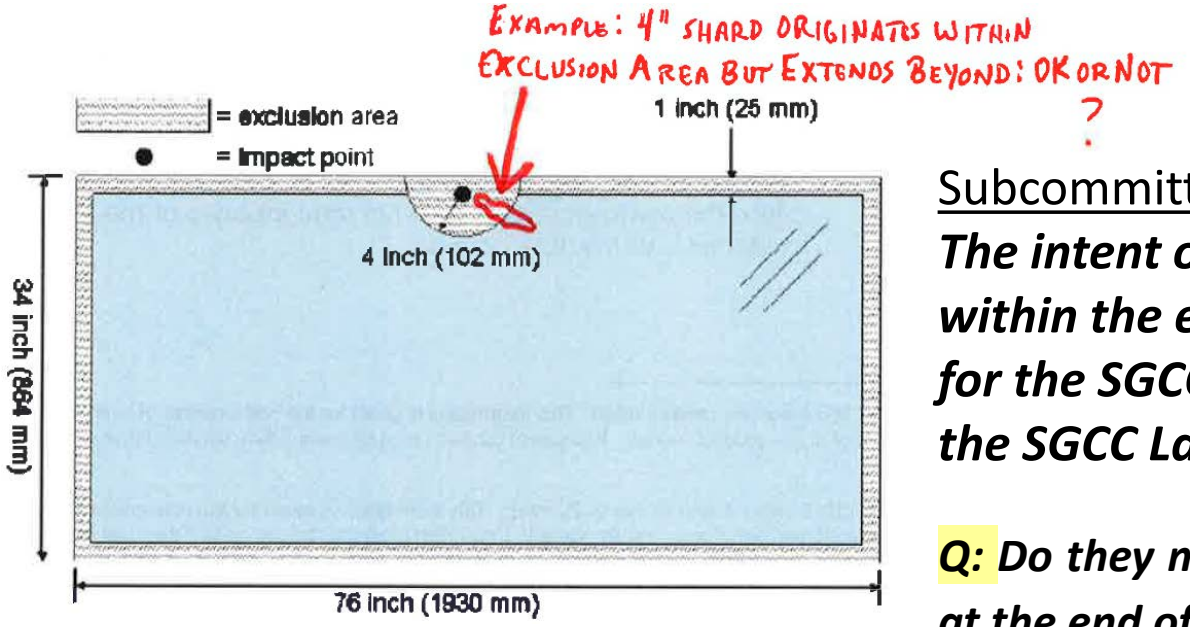
Guidance Document Modification:

Specimen size – ~~is~~ Test sample(s) should be representative of normal production, at the discretion of the fabricator.

Continued Next Slide

11c – Lab Manual & QA Production Testing Guidance Document

Topic 2: Evaluating shards from Center Punch testing partially in the exclusion area



It appears the intent of the 4 inches in the exclusion area was to accommodate a 4-inch shard ("No one particle shall be longer than 4 inches" -Ansi Z97.1-2015)

Subcommittee Recommendation:

The intent of the exclusion area is not excluded particles partially within the exclusion area. Recommend adding note to the Guidance for the SGCC Quality Assurance Production Testing and new item to the SGCC Laboratory Manual.

Q: Do they measure the full size of the shard? Or just the part that starts at the end of the exclusion zone

Q: Does this apply to just "long shards" or also the 10 largest particles?

Proposed Wording:

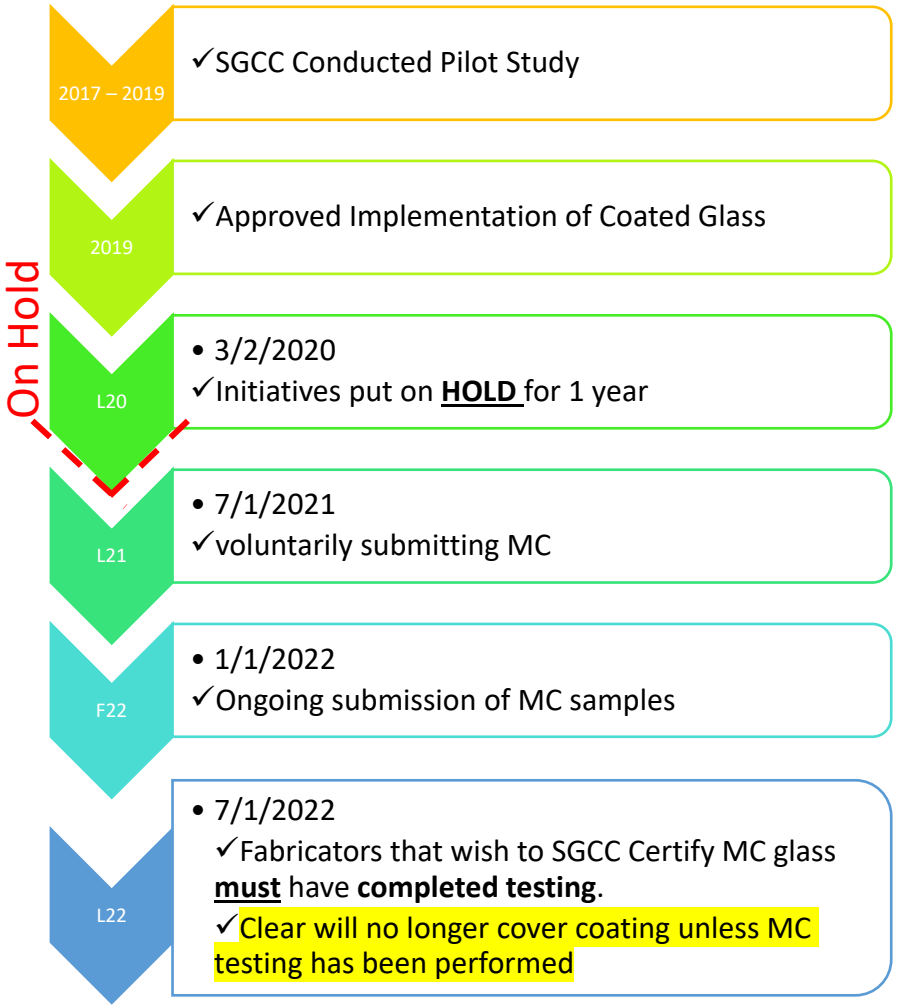
"When selecting particles for evaluation, if any portion of a particle is outside the exclusion area, the entire particle would be considered for evaluation."

Motion
1st: Rick Wright
2nd: Jeff Haberer
Vote: UA
12/0/0 **Pass**

Agenda #11c: Motion to approve proposed wording for Topics 1 & 2.

12 – Coated Glass – Tempered Transparent Glass (TTG)

Coated Glass Timeline – Mandatory as of 7/1/2022



New Guideline: 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.

Type of Glass	MCHC (Metalized Coating Hard Coat)	MCSC (Metalized Coating Soft Coat)	Total Coated	Total TTG (inc. MC)
Total Tested	219	628	847	7678
Total Failure	8	34	42	198
	3.7%	5.4%	5.0%	2.6%

*Results Between 1/4/2021 - 9/15/2022

Propose:
Continue to monitor. Suggest 2 Full years of data.

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*

Open Participants Meeting & 2021 Minutes:

AGENDA / MINUTES
SGCC ANNUAL PARTICIPANTS MEETING
Tuesday, October 4th, 2022 @ 5:00PM Eastern
Margaritaville Resort Orlando
Kissimmee, FL 34747

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

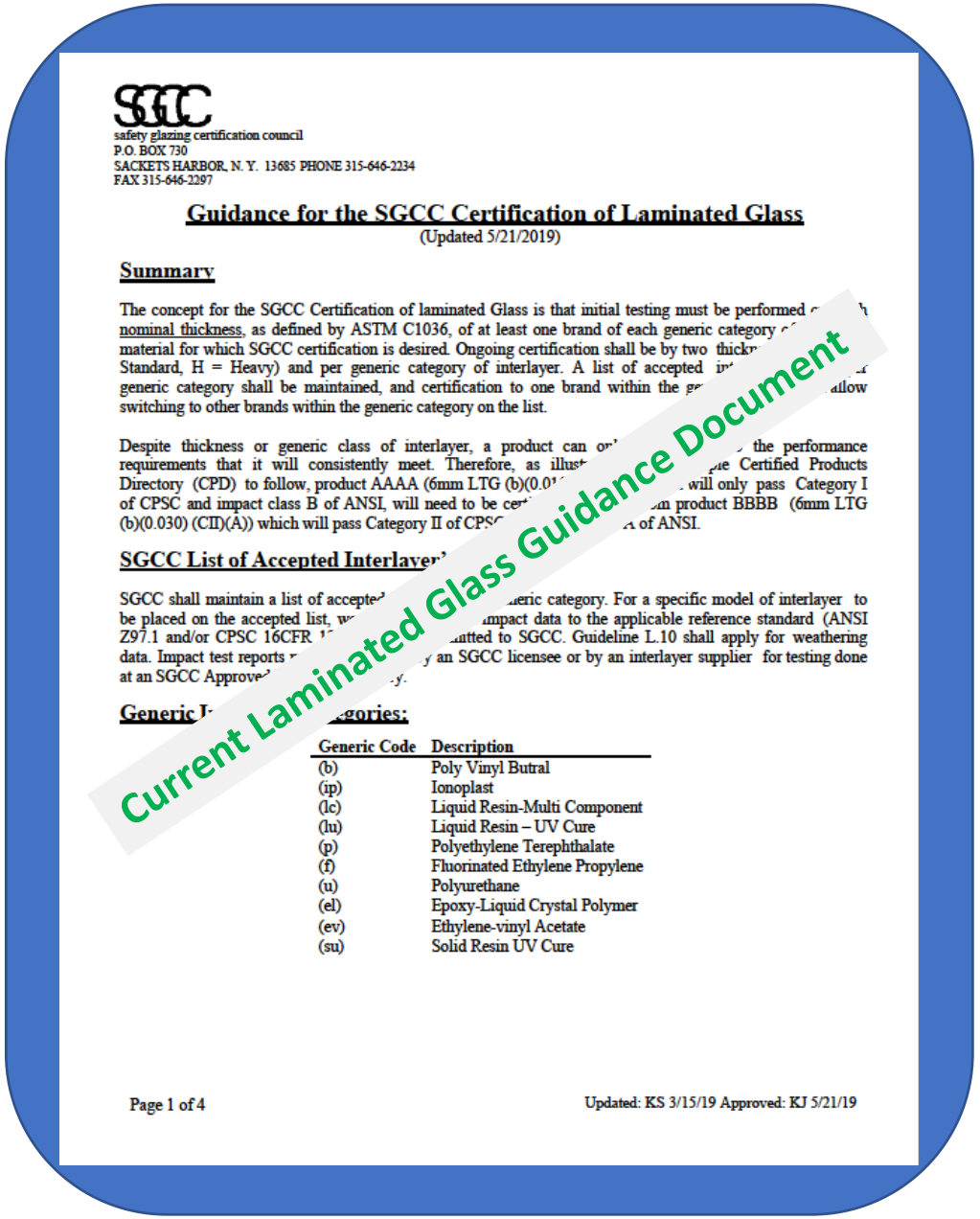
9. ~~Program Testing Results Review~~
10. ~~ANSI Z97.1, CPSC, CAN/CGSB 12.1~~
11. ~~Testing Laboratories~~
    a. ~~Laboratory Approval Status~~
    b. ~~IA Training Update~~
    c. ~~(M) SGCC Lab Manual~~
13. ~~Coated Glass~~
14. Laminated Glass – Day 2
    a. (M) Laminated Guidance Material
    b. Accepted Interlayer List
15. Testing Obligations
16. New Technology
17. Old/New Business
18. Next Meeting

13 – 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
Brian Louks - Viracon	Michelle Phan - Cardinal
Tim Moore – W. A. Wilson Inc.	Mark Cody – Cardinal
Jeff Haberer - Trulite	Urmilla Sowell – NGA
Robert Carlson – Tristar Glass	

13. Laminated Glass
    a. (M) Review *Guidance for the SGCC Certification of Laminated Glass*
    b. Accepted Interlayer List

13a – Laminated Glass



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

Guidance for the SGCC Certification of Laminated Glass
(Updated 5/21/2019)

Summary

The concept for the SGCC Certification of laminated Glass is that initial testing must be performed … nominal thickness, as defined by ASTM C1036, of at least one brand of each generic category … material for which SGCC certification is desired. Ongoing certification shall be by two thick… Standard, H = Heavy) and per generic category of interlayer. A list of accepted in… generic category shall be maintained, and certification to one brand within the ge… allow switching to other brands within the generic category on the list.

Despite thickness or generic class of interlayer, a product can or… the performance requirements that it will consistently meet. Therefore, as illust… ue Certified Products Directory (CPD) to follow, product AAAA (6mm LTG (b)(0.0… will only pass Category I of CPSC and impact class B of ANSI, will need to be cer… n product BBBB (6mm LTG (b)(0.030) (CII)(A)) which will pass Category II of CPS… A of ANSI.

SGCC List of Accepted Interlayer…

SGCC shall maintain a list of accepte… eric category. For a specific model of interlayer to be placed on the accepted list, w… mpact data to the applicable reference standard (ANSI Z97.1 and/or CPSC 16CFR …) shall be submitted to SGCC. Guideline L.10 shall apply for weathering data. Impact test reports … an SGCC licensee or by an interlayer supplier for testing done at an SGCC Approve… y.

Generic I… egories:

Generic Code	Description
(b)	Poly Vinyl Butral
(ip)	Ionoplast
(lc)	Liquid Resin-Multi Component
(lu)	Liquid Resin – UV Cure
(p)	Polyethylene Terephthalate
(f)	Fluorinated Ethylene Propylene
(u)	Polyurethane
(el)	Epoxy-Liquid Crystal Polymer
(ev)	Ethylene-vinyl Acetate
(su)	Solid Resin UV Cure

Page 1 of 4

Updated: KS 3/15/19 Approved: KJ 5/21/19

Current Laminated Glass Guidance Document

Review *Guidance for the SGCC Certification of Laminated Glass*

Link to Laminated Glass Hand-out

Adobe Acrobat Document

Notes/Discussion Regarding: *C13a Guidance for the SGCC Cert of Lami Glass 2022-10-05 Proposal*

13b – Accepted 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 Z97.1-2009 or 2015 and Indoor use only must be tested to ANSI Z97.1-2015 weathering data.

L.1 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 interlayers must have weathering test data on file. Outdoor use may be tested to ANSI Z97.1-2009 or 2015 and Indoor use only must be tested to ANSI Z97.1-2015 weathering data. All Indoor use only products must submit Indoor Use Only Weathering requirements to ANSI Z97.1-2015 by 12/31/2016 to maintain approval on this list. Interlayer suppliers not providing weathering data to SGCC by 12/31/16, will no longer be available for manufacturers to use in SGCC certified products. (7/1/16).

Generic Code & Description

(b) Poly Vinyl Butral	(lu) Liquid Resin - UV Cure	(f) Fluorinated Ethylene Propylene	(lc) Liquid Resin-Multi Component	(p) Polyethylene Terephthalate	(ev) Ethylene-Vinyl Acetate
(ip) Ionoplast	(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	✓
		Eastman Chemical Company	Saflex FlySafe 3D	(.060)	✓
		Kuraray	Trosifol Clear & Decorative	Clear (B200&B500), UltraClear, UltraClear XT, HR (HR100), Brilliant Colors/Tints	✓
		Kuraray	Trosifol Specialties	SentryGlas Expressions, Extra Stiff (B130), SC Monolayer (B100), Solar R40 (B900)	✓
		Chang Chun	Winlite	(0.015)	✓
		Sekisui S-Lec	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)	✓
		Anhui Wanwei Bisheng Co., Ltd.	Bisn®	(0.030)	✓
		Zhejiang Decent New Material Co., Ltd.	Architectural PVB	(0.030)	✓
(u)	Polyurethane	SWM International	ArgoBond®	ST-6050 (0.050)	✓
(ip)	Ionoplast	Kuraray	Trosifol SentryGlas®	(0.035)	✓
		Kuraray	Trosifol SentryGlas® Xtra™	(0.035)	✓
(lu)	Liquid Resin - UV Cure	Bestroom Co. Ltd.	UVLAM	(0.040)	✓
		H.B. Fuller- Kommerling	Kodilan GS-LED	(.040)	✓
		ALLNEX	UVEKOL	(0.040)	✓
(ev)	Ethylene-Vinyl Acetate	Interlayer Solutions, inc.	EVALAYER	(0.015)	✓
		Folienwerk Wolfen GmbH	Evguard® - 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 Gaoren Electronic New Material Co.,Ltd - 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)	✓

Continue page 2

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	Seeory Interlayer	(0.030)	✓

L.1 Certification to one brand within the generic category will allow switching to other brands within the generic category on the list.

The List Continues to grow

https://www.sgcc.org/laminated-glass

14 – Testing Obligations

SGCC Testing Obligations

1. **Third Party Certification Testing** – ANSI Z97.1 2X per year - **Destructive**

30% of current plants have reoccurring failures
49% of current plants have had a failure in the last 4 years

	Number of samples	Size of samples	Frequency or test
Initial/Prototype	Standard driven	Standard driven	One time
Ongoing	Reduce?	Reduce?	Skip test based on QA issues or no failures

2. **In House – Production Testing**
   a. Tempered – First of each product thickness per shift - **Destructive**
   b. Laminated – Weekly - **Destructive**

(Same – number, size, frequency … but also non-destructive)

- Could a non-destructive test be identified/developed - Currently no form of non-destructive solution for Laminated glass
- Any adjustment should be based on data/rational
- Explore possible non-destructive solutions that NGA may be aware of.

15 – New Technology

THEN / NOW

Auditor App

<u>Leveraging Technology – Auditor APP</u>

- Processing ~1012 Plant Audits – direct connection with AMS database and Auditors.
- Provides access to real time data including CAPAs and product history, and contact information

Creates efficiencies within the certification process. By reducing delays in transmitting information. This also ties into the CIP by providing information faster.

Old Business

Requested to modify the wording for the current SGCC Guideline G.4 to be more inline with the GICC code wording:

Motion to accept the revised wording for the G.4 Guideline as written below.

G.4
For insulating glass units (multi-pane assemblies) to be considered safety glazing material, each lite in the construction must be of safety glazing material.

Motion
1st: Jeff Haberer
2nd: Bernie Herron
Vote: UA
11/0/0 **Pass**

New Business

17 – Next Meeting 2023

Proposed target date:

September 12th – 13th 2023

Clayton, New York

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