



safety glazing certification council

P.O. BOX 730

SACKETS HARBOR, N. Y. 13685

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MINUTES OF NINETY-SIXTH MEETING OF THE CERTIFICATION COMMITTEE MEETING September 12<sup>th</sup> - 13<sup>th</sup>, 2023 Hybrid – Paris Las Vegas NV

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

Table with 4 columns: Member Name, Name, Date 9/12/2023, Date 9/13/2023. Lists various companies and their representatives with attendance status for two dates.

Members by Virtue of Being a Director

Table with 4 columns: Member Name, Name, Date 9/12/2023, Date 9/13/2023. Lists public interest members and their attendance status, including a total votes row.

Guests

Date and Present

		<b>9/12/2023</b>	<b>9/13/2023</b>
ArentFox Schiff LLP	David McHugh	Present	Present
GCI Consultants	Dan Johnson	Virtual	Absent
China Testing & Certification International Group Co.,Ltd.	ZuoPresentin Ding	Present	Present
Intertek	Kenny White	Present	Present
Intertek	Chris Chang	Virtual	Virtual
Intertek	Virgal Mickley	Virtual	Virtual
National Glass Association	Urmilla Sowell	Present	Present
ODL, Inc.	Lee Ash	Virtual	Virtual

**Administrative Staff**

		<b>Date and Present</b>	
		<b>9/12/2023</b>	<b>9/13/2023</b>
AMS, Inc.	John Kent	Virtual	Virtual
AMS, Inc.	Terry Schaefer	Present	Present
AMS, Inc.	Katrina Stafford	Present	Present
AMS, Inc.	Kristin Best	Present	Present
AMS, Inc.	James Shannon	Present	Present
AMS, Inc.	Sara Connor	Virtual	Virtual
AMS, Inc.	Tonya Cumoletti	Virtual	Virtual
AMS, Inc.	Lindsay Bova	Virtual	Virtual
	<b>Persons Present</b>	24	23
	<b>Total Attendance (including Virtual)</b>	47	42

## MOTIONS

Agenda Item #	Ref #	Motion/Second	Motion	Vote A/N/A	P/F
5 Minutes	9.12.23.1	June Willcott / Michelle Phan	Approve the minutes from the October 4 <sup>th</sup> – 5 <sup>th</sup> 2022 meeting.	UA	P
12a Laboratory	9.12.23.2	June Willcott / Bill Nugent	Re-approve the list of SGCC approved testing laboratories as presented for another 2-year period contingent on continued performance and compliance to SGCC requirements.	UA	P
12c SGCC Lab Manual	9.12.23.3	Mark Hutchinson / Rick Wright	<p>Approved the Lab Manual changes (in blue) as presented below:</p> <ul style="list-style-type: none"> <li><i>Added to C.10 Product Failure: Example photo shown, photos should include a form of reference scale (e.g., ruler, tape measure, forensic ruler, etc.)</i></li> <li><b>D.9 Laboratory Technician training</b> – Per the minutes 10.3.18.3 of the Certification Committee meeting, it is mandated that any technicians <i>either signing SGCC test reports (excluding Professional Engineer (P.E.)), or performing SGCC testing</i>, are required to take and pass annually (Passing requirements = 100%) the SGCC Laboratory Interactive Animation training exam. Implementation of these changes were effective 1/1/2020.</li> </ul>	UA	P
13 Laminated Safety Glass	9.13.23.1	June Willcott /Michelle Phan	Approved to allow existing certified laminated product report(s) to be utilized for reconfiguration under the new laminated certification guidelines regardless of age of the report provided that all necessary information is reported.	UA	P
13 Laminated Safety Glass	9.13.23.2	Rick Wright / Michelle Phan	Approved implementation of laminated glass certification as outlined with the <i>Guidance for the SGCC Certification of Laminated Glass_2023-03-23 rev May 2023. (Attachment A)</i>	UA	P

## ASSIGNMENTS & DISCUSSIONS (Action Items)

No./Topic	Assigned	Details	Due Date
2		Reviewed and determined quorum	
3 Legal Report	David McHugh	David McHugh, legal counsel for SGCC, reviewed the anti-trust Guidelines and legal report with participants at the meeting and allowed time for further questions and discussion.	
6 Committee Structure	AMS	<p>Need to adjust the committee structures removing Elaine and updating Chairs.</p> <p><b>Time &amp; Place</b> – Rick Wright as Chair, add Julia Schimmelpenningh as a member</p> <p><b>Marketing</b> – Julia S. as Chair, add Urmilla Sowell, Kyle Zink, Mark Hutchinson as members</p> <p><b>Lab &amp; QA Inspection</b> – Add Kenny White, Adina Dobre as members</p>	ASAP

11	Program Testing Results	Agreed to display program testing results review within the CIP (restricted access / behind username and password). Need to include appropriate explanation/disclaimer on what users can and cannot do with the information and how it aligns with SGCC's purpose.  Review charts and appropriate wording with the Board before making it available in the CIP.	ASAP
12c	AMS/ Lab SC	Schedule Laboratory Subcommittee meeting to discuss: <ul style="list-style-type: none"> <li>• SGCC specimen breakage,</li> <li>• Additional ways to track and notify Staff and Licensee of glass tracking.</li> <li>• Measuring interlayer thickness</li> <li>• New laminated glass changes and how this will affect testing facilities (i.e. Glass Kind tracking and recording).</li> </ul>	
13	AMS	Updated <i>Guidance for the SGCC Certification of Laminated Glass_2023-03-23</i> document to include 0.075in and 0.090in within <u>Table 3: Typical Interlayer Nominal Thickness</u> .	
14	AMS	Continue collecting Coated Glass testing results. Present Coated Glass failure by type (Hard Coat vs. Soft Coat).	Lab SC & AMS
	Guest Speaker	Request a presentation on VIG.	Next Annual Meeting
	All	<b><u>2024 Meeting</u></b> Week of August 19 <sup>th</sup> Clayton, New York	
	All	<b><u>2025 Meeting</u></b> Fort Worth, TX Date TBD	

**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 Pacific
2. Voting Rights and Responsibilities
3. Legal Counsel's Report – David McHugh
4. Guest Speaker – Softsolution CulletScanner
5. (M) Review and Approval of Previous Meeting Minutes
6. Committee Structure
7. Board of Directors Report – June Willcott
8. Administrative Report
9. Quick Action Sub-Committee Report

#### **Topics**

##### **ADDED GICC Update – Urmilla Sowell**

10. ANSI Z97.1, CPSC, CAN/CGSB 12.1
11. Program Testing Results Review
12. Testing Laboratories
  - a. (M) Laboratory Status
  - b. IA Training Update

- c. (M) SGCC Lab Manual – END Day 1 4:54pm Pacific
- 13. (M) Laminated Safety Glass – Update – **END OF DAY 1**
- 14. Coated Glass
- 15. City of LA
- 16. VIG
- 17. Old/New Business
- 18. Next Meeting - Adjourned Day 2 – 9:50am Pacific

# 2023 SGCC® Fall Certification Committee Meeting

September 12<sup>th</sup>-13<sup>th</sup>, 2023



# Schedule

## Day 1 – Tuesday September 12<sup>th</sup>

1:00 – 5:00pm (Pacific) SGCC Certification Committee Meeting

5:00 – 5:15pm (Pacific) SGCC Participants Meeting

6:00 – 8:00pm (Pacific) In Person Reception

## Day 2 – Wednesday September 13<sup>th</sup>

7:30am – 8:00am (Pacific) Light Breakfast Provided

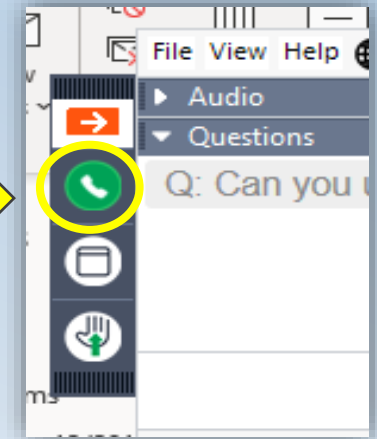
8:00am – 12:00pm (Pacific) SGCC Certification Committee Meeting

# SGCC Board - GoToWebinar

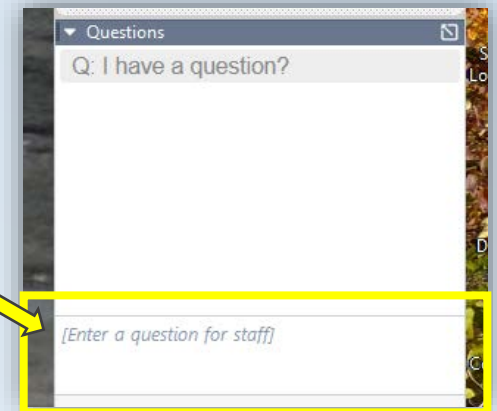
Once the meeting begins, we will ask everyone to **Mute** themselves.

How to ask a question?

1. **Unmute** yourself and speak accordingly.



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



To Open the Control Panel



Open/Close Control Panel

Mute / Unmute

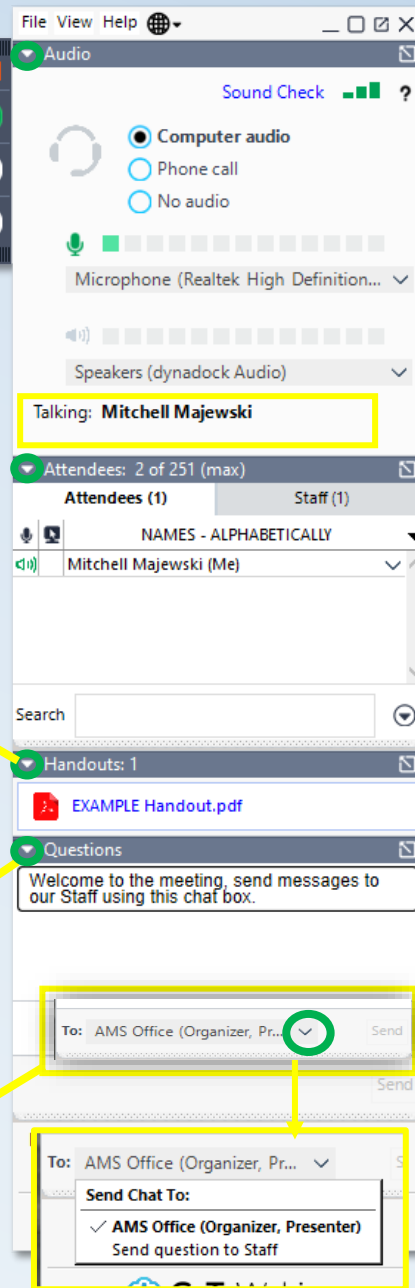
Toggle Fullscreen

"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





# Hybrid Meeting Ground Rules

- 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 permitted for In-Person & Board Virtual 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

# 1 – Call to Order and Agenda – SGCC Certification Committee

**BY DIRECTION OF:** MARK HUTCHINSON, acting Chair  
for 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. Legal Counsel's Report
4. Cullet Scanner by Softsolution – Nate Huffman
5. (M) Review and Approval of Previous Meeting Minutes
6. Committee Structure
7. Board of Directors Report
8. Administrative Report
9. Quick Action Sub-Committee Report

## Topics

10. ANSI Z97.1, CPSC, CAN/CGSB 12.1
11. Program Testing Results Review
12. Testing Laboratories
  - a. (M) Laboratory Approval Status
  - b. IA Training Update
  - c. (M) SGCC Lab Manual
13. Laminated Safety Glass - Update
14. Coated Glass
15. City of LA
16. VIG
17. Old/New Business
18. Next Meeting

# 1. Staff Introductions

*Great things in business are never done by one person, they're done by a team of people" – Steve Jobs*



**John Kent**  
SGCC Administrative Manager



**Terry Schaefer**  
Vice President  
Co-Administrative Manager  
[Tschaefer@amscert.com](mailto:Tschaefer@amscert.com)



**Katrina Stafford**  
AMS Quality Management  
System  
SGCC Committee  
[kstafford@amscert.com](mailto:kstafford@amscert.com)



**Kristin Best**  
Program Manager  
[kbest@amscert.com](mailto:kbest@amscert.com)



**Kelly Jenness**  
Auditor Coordinator  
[kelly@amscert.com](mailto:kelly@amscert.com)



**Ken Potter**  
Software Development  
[kpotter@amscert.com](mailto:kpotter@amscert.com)



**Sara Connor**  
Day to Day  
Program Coordination  
[sconnor@amscert.com](mailto:sconnor@amscert.com)



**Tonya Cumoletti**  
Day to Day  
Program Coordination  
[tcumoletti@amscert.com](mailto:tcumoletti@amscert.com)



**Lindsay Bova**  
Day to Day  
Program Coordination  
[lbova@amscert.com](mailto:lbova@amscert.com)



**Olivia Aubin**  
Audits & Lab Liaison  
Interactive Animation  
[oaubin@amscert.com](mailto:oaubin@amscert.com)



**Mitch Majewski**  
Interactive Animation  
Software Development  
[mmajewski@amscert.com](mailto:mmajewski@amscert.com)

# 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

# 3 – Legal Report

## SGCC Antitrust Compliance Program 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](#)



# Presenter Nate Huffman – Softsolutions



Administrative Management Systems, Inc.  
Administrative Office



Adobe Acrobat  
Document



[Link to CulletScanner Presentation](#)



Standard / Equipment	Title	Production Test	Suitable Alternate For	Requirements When Testing to This Standard
<b>Optical Scanner</b>	See Manufactures Specifications	See Manufactures Specifications	Evaluation of ANSI Z97.1 Center Punch Fragmentation Test tempered glass	<ul style="list-style-type: none"> <li>- Follow ANSI Z97.1 - 15 (R2020) section 5.2 Fragmentation Procedure (or suitable alternative)</li> <li>- Scanner to be used in place of sections 5.2.3 &amp; 5.2.4</li> </ul>
EN 12600	Glass in Building Impact Test Method and classification of flat glass	Pendulum test	ANSI Z97.1 Impact Test Laminated or tempered glass	<ul style="list-style-type: none"> <li>- Test up to 3 drop heights (Class 1,2,3)</li> <li>- Only for testing 34 x 76"</li> <li>- Penetration force is 25 N instead of 18 N</li> <li>- No Center Punch test on tempered sample if breakage doesn't occur</li> <li>- No particle weight determination</li> </ul>
EN 12150	Glass in Building - Thermally Toughened Soda Lime Silicate Safety Glass	Fragmentation Test (Section 8)	ANSI Z97.1 Center Punch Fragmentation Test tempered glass	<ul style="list-style-type: none"> <li>- Test for Thermally Toughened Soda Lime Silicate Safety Glass</li> <li>- Size of specimen tested may be at discretion of participant</li> <li>- Particle evaluation is number of particles in 50mmx 50mm mask</li> </ul>
EN 14179	Glass in building - Heat soaked thermally toughened soda lime silicate safety glass	Fragmentation Test (Section 10)	ANSI Z97.1 Center Punch Fragmentation Test tempered glass	<ul style="list-style-type: none"> <li>- Test for Heat soaked thermally toughened soda lime silicate safety glass</li> <li>- Strike specimen 1" from edge</li> </ul>
GANA TD-101	Standard Test Method for Center Punch Frag. of Fully Tempered Flat Glass	Fragmentation Test	ANSI Z97.1 Center Punch Fragmentation Test tempered glass	<ul style="list-style-type: none"> <li>- Curbing is not optional as stated in this standard</li> <li>- Adhesive tape is written to be equivalent of curbing in this standard</li> </ul>
NOM-146-SCFI-2016	Glass products-safety glass used in construction-specifications and test methods	Section 7.3	ANSI Z97.1 Center Punch Fragmentation Test tempered glass	<ul style="list-style-type: none"> <li>- Testing can be done on a single sample, size at discretion of participant</li> <li>- Strike should be 1" from glass edge, with 8" D exclusion area, and 1" perimeter exclusion area</li> <li>- 10 largest particles or written evaluation method</li> </ul>
		Section 7.5	ANSI Z97.1 Impact Test Laminated or tempered glass	<ul style="list-style-type: none"> <li>- Level 1 (Type B) &amp; Level 2 (Type A)</li> <li>- 4lb force should be applied when evaluating tears</li> <li>- Particle Evaluation to be done as per ANSI Z97.1</li> </ul>

Tempered



[Link to SD-211 – Guidance for the SGCC Quality Assurance Production Testing](#)

October 2021 Certification Committee Meeting  
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 document.

# 5- Approval of 2022 Meeting Minutes



## 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 29 <sup>th</sup> – 30 <sup>th</sup> , 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: <u>Topic 1: Specimen size – is Test sample(s) should be representative of normal production, at the discretion of the fabricator.</u> <u>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.</u>	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 ( <u>dual pane or multi-pane assemblies</u> ) must be of safety glazing material.	UA	P

# 5- Approval of 2022 Meeting Minutes



## Assignments

**Proposed Motion:**  
 Motion to approve the minutes from the October 4<sup>th</sup> – 5<sup>th</sup>, 2022 meeting

**Motion**  
 1<sup>st</sup>: June Willcott  
 2<sup>nd</sup>: Michelle Phan  
 Vote: UA Pass



Adobe Acrobat Document

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). <ul style="list-style-type: none"> <li>failure by % failure rate</li> <li>Boil and Impact failure rates separate.</li> </ul>	
9 Testing Results	AMS	Future Ideas: <ul style="list-style-type: none"> <li>Per company, per plant compared to the rest of the industry.</li> <li>MC details - Can we display the Coated Glass failure by thickness in chart form</li> <li>Product historical performance</li> <li>Additional Lami information</li> <li>Other...</li> </ul>	
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: <ol style="list-style-type: none"> <li>to further clarify the "All Personnel performing SGCC testing" and the intent of what this means.</li> <li>Implementation to the new version of CAN/CGSB 12.1-2022</li> </ol>	
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 the Sub Committee on a path forward: <ul style="list-style-type: none"> <li>Intent to try and make a single document for All Laminated Certification.</li> <li>Survey the Laminated Glass industry on the 'thinnest laminated makeup'</li> </ul>	
	All	Next Meeting Clayton NY September 12-13, 2023	



# 6 - Committee Structure



# 6 - Committee Structure



**Green** – Changes from Meeting

SGCC Board of Directors		President: June Willcott
Staff Contact: Terry Schaefer		
Scope: The overall affairs of the Council shall be managed by its Board of Directors.		
Members		
<u>Public Interest</u>		<u>Business Community</u>
June Willcott - President		Rick Wright - Vice President
<del>Elaine Rodman</del> – Treasurer <b>OPEN</b>		Mark Hutchinson
Peter Weismantle		Jeff Haberer - Secretary
William Nugent		Mark Cody
Patrick Loughran		Brian Louks

Sub Committee: Certification Committee		Chair: Mark Cody
Staff Contact: Kristin Best		Vice Chair: ?
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
Staff Contact: Katrina Stafford		Vice Chair: ?
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		Patrick Loughran

Sub Committee: Time and Place		Chair: <del>Elaine Rodman</del> <b>Rick Wright</b>
Staff Contact: Kelly Jenness		
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		
<del>Rick Wright</del>		<b>Julia Schimmelpenningh</b>

# 6 - Committee Structure



Sub Committee: Marketing		Chair: Open- Julia Schimmelpenningh
Staff Contact: Terry Schaefer		
Scope: Formulate and maintain SGCC marketing plan, and website, and any other promotional activity that may arise.		
Members: Sub-Committee of the Board		
Rick Wright - OBE	June Willcott – Public Interest	
Mark Cody - Cardinal	Urmilla Sowell - NGA	
Peter Weismantle – Public Interest	Kyle Zink – Midwest Glass Fabricators, Inc.	
	Mark Hutchinson – Intigral, Inc.	

Sub Committee: Laboratory and QA Inspection		Chair: Michelle Phan - Cardinal
Staff Contact: Katrina Stafford		
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.	Kenny White - Interek	
	Adina Dobre – Intigral, Inc.	

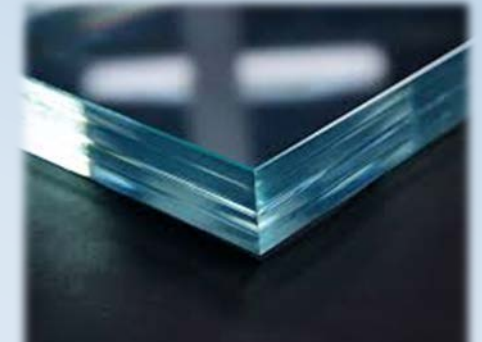
Sub Committee: Nominating	Chair: Rick Wright	Public Interest Member: Peter Weismantle
Staff Contact: Kristin Best		
Scope: The Nominating sub committee is a subcommittee of the Board and appointed by the President to research and present a slate of SGCC Board nominees and officers for the annual SGCC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

Sub Committee: Laminated Glass Review		Chair: Rick Wright - OBE
Staff Contact: Kristin Best		
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		

# 7 – 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. Laminated Safety Glass



# 8 – Administrative Report

## Certified Products Directory (CPD)

January – Hard copy printed and mailed, electronic copy distribution

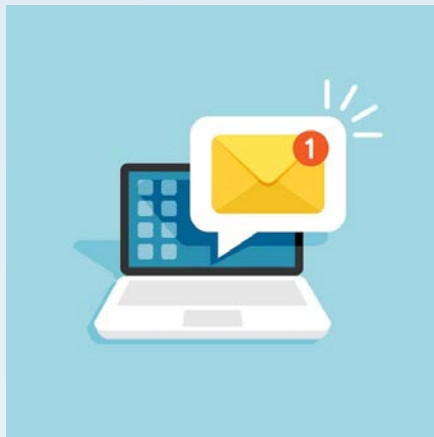
July – Electronic copy distribution

January Hard Copies Mailed	Electronic Copies Distributed		Subscription List (E-mail & Physical Addresses)
	January	July	
100*	1805	1848	2379

\*Approved for 2023 due to unforeseen printing company issues.

## ADMINISTRATIVE ACTIVITY

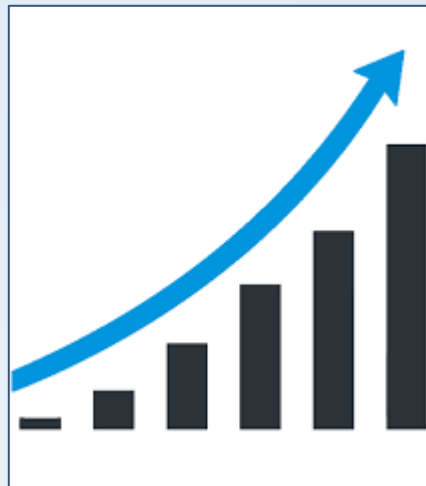
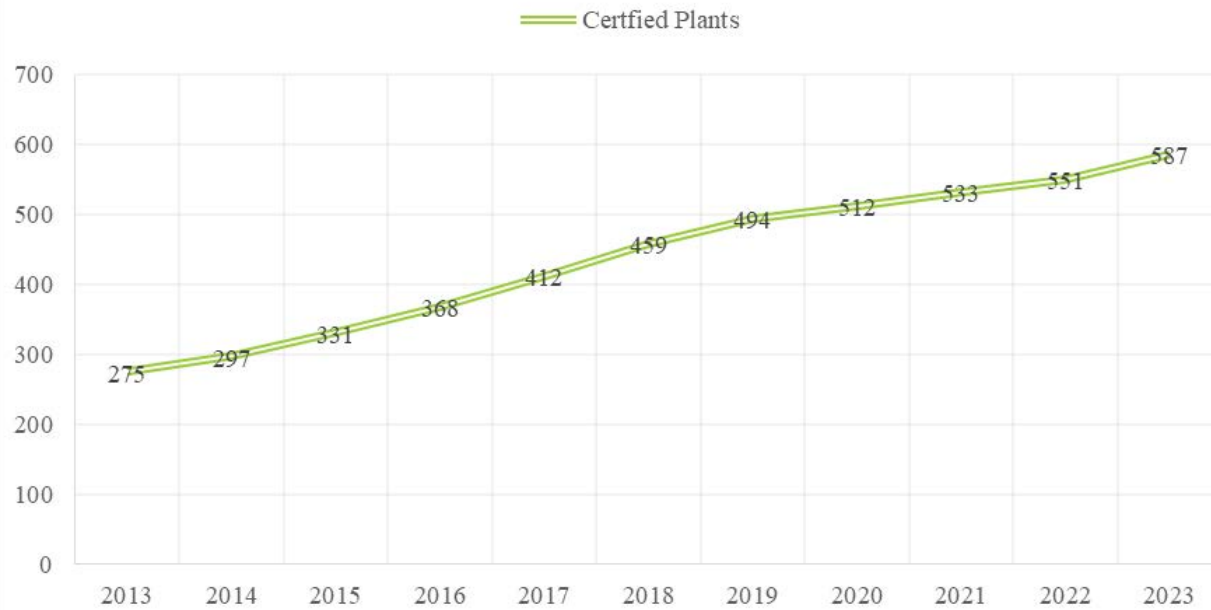
October 2022	Memo CAN/CGSB 12.1-2022 Label Changes
January 2023	January 2023 Certified Products Directory
February 2023	Auditor Conference Training
March 2023	Memo CAN/CGSB 12.1-2022 Label Changes REMINDER
April 2023	L23 Invoices
July 2023	Auditor Conference Training
July 2023	Fall Meeting Announcement
July 2023	July 2023 Certified Products Directory
August 2023	2023 IA Training Release
September 2023	SGCC Test Fee Schedule
October 2023	F24 Invoices



*Are our emails reaching you?*

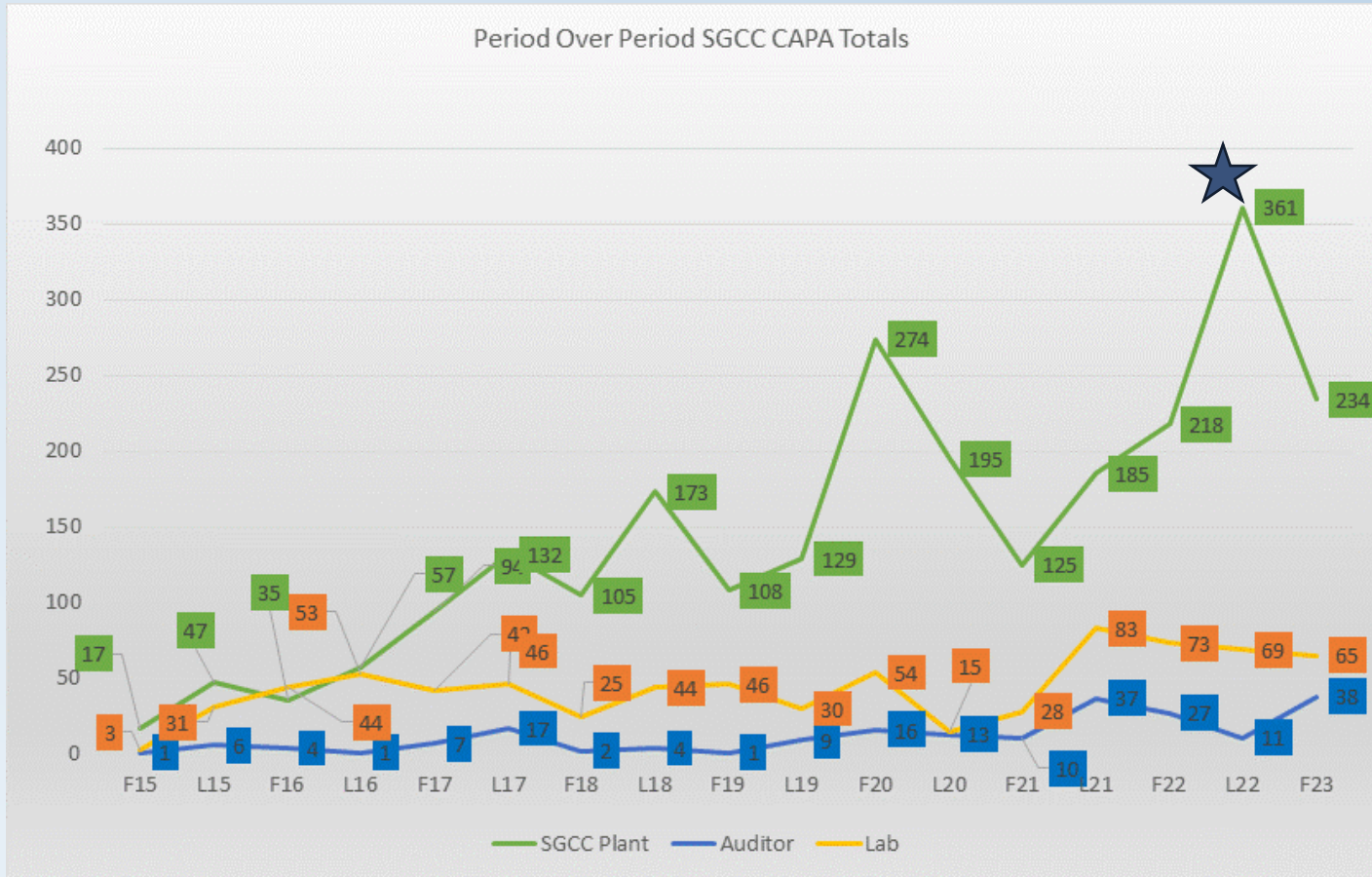
# 8 – Administrative Report

## NUMBER OF CERTIFIED PLANTS



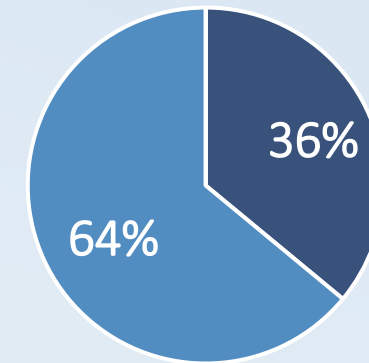
	2017 As of Sept	2018 As of Sept	2019 As of Sept	2020 As of Sept	2021 As of Sept	2022 As of Sept	2023 As of Aug
No. of Plants	412	459	494	512	533	551	587
% increase in Plants	+12%	+11%	+8%	+4%	+4%	+3%	+7%
Offshore Plants	111	141	155	162	183	184	189
% increase in Offshore Plants	+6%	+27%	+10%	+5%	+13%	+1%	+3%
No. of Licensees	283	335	376	399	416	437	458
Total Certified Products	2646	2837	3008	3197	3265	3339	3515
% increase in Certified Products	+15%	+7%	+6%	+4%	+2%	+2%	+5%
Products ANSI ONLY	0	0	1	1	1	1	1
Products CPSC ONLY	0	0	0	0	0	0	0
Products COMPOSITE	1340	1420	1390	1401	1378	1356	1418
Products COMP+CAN	1306	1417	1617	1795	1886	1982	2096
Plants COMP+CAN	175	197	238	266	291	317	325

# 8 – Administrative Report



We encourage Audit feedback!

F23 Audits Completed Remote vs. Physical



■ Remote (200) ■ Physical Audit (351)

★ L22 – increase in the number of new plants, 30% of plant Quality CAPAs were “New” Fabricators

# 9 – 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.		
<u>Members</u>		
SGCC President		June Willcott
Certification Committee Chair		Mark Cody
Public Interest		Patrick Loughran

## *COMPLAINTS AND/OR APPEALING A CERTIFIED PRODUCT (11/03/2015)*

*Negative feedback, from any source, on any aspect of the certification program or program administration that requires a response will be deemed a Complaint that requires a response. A complaint that challenges the conformance of any safety glazing product to program requirements shall be deemed an Appeal, whether by a licensee or by a consumer or other third party. Complaints or Appeals must be in writing and are first handled by the Administrator following the below procedure:*

.....

*Determinations by the Administrator can be contested and if they are, the matter will be sent to the SGCC Quick Action Committee for determination. If the Quick Action Committee's determination is contested, then the matter is sent to the Certification Committee for final determination and resolution. No further appeal is permitted from the decision of the Certification Committee.*



# 9 – Quick Action Sub-Committee Report



Date	Issue	Outcome
1/2023	<p>Fabricator requested SGCC to create a proprietary designation of laminated glass interlayer, initially (pr1), where all public listing information would show the generic interlayer in the SGCC certified product as (pr1). SGCC would know the specifics of the interlayer used and validate it's use during SGCC inspections. The (pr1) designation would be certified separately from other generic categories and tested initially and regularly. Should other proprietary designations be requested, (pr2) (pr3) ... would be used.</p>	<p>This motion was approved by the quick action committee. And the new interlayer designation was added to the January Certified Products Directory (CPD).</p>
2/2023	<p>Since last meeting, SGCC received a request for SGCC Laboratory Approval from Blackwater Testing Lab of West Palm Beach, Florida. This request was reviewed and approved by the SGCC Quick Action Sub-Committee.</p>	<p>This request was reviewed and approved by the SGCC Quick Action Sub-Committee. And the Testing Laboratory was added to the SGCC Approved Testing Laboratories list.</p>
2/2024	<p>Fabricator stated the routine and retest failures, resulting in decertification of his product, were based upon incorrect max. allowable weight calculations made by the laboratory.</p>	<p>Lab personnel reviewed the ANSI specification and the revised factor, new calculations were completed, which determined that the specimen passed, and an amended report was issued to client. Certification was reinstated. Lab has corrected its calculation procedure and replaced the revised factor with the original and correct factor. This was then verified during the SGCC Lab audit conducted on 3/14/2023</p>

# Glazing Industry Code Committee Update

September 12, 2023

SGCC

Las Vegas, NV

Urmilla Sowell

NGA

# GICC Proposal G8-22

- Fire-resistance rated glazing should be equal with other materials, such as concrete and masonry, used to enclose interior exit stairways in high rise buildings.
- Fire-resistance rated glass walls complying with the impact requirements of CPSC 16 CFR 1201, Cat. II or ANSI Z97.1, Class A are now deemed to comply with the damage resistance requirements of IBC Sections 403.2.2.1 and 403.2.2.2.
- **\*\* UNANIMOUSLY ADOPTED \*\***

# Proposal S128-22

- Require Environmental Product Declarations (EPDs) for glass (and other construction materials) as a condition of getting building permits.
- EPDs are not related to safe building construction.
- **\*\* DEFEATED \*\***

# GICC Proposal S229-22

- Triple glazed units (TGUUs) used in hazardous locations with safety glazing in the inboard and outboard panes, but not in the center pane.
- This proposal clarifies that, in the absence of a specific exception, all glass panes used in hazardous locations must be safety glazing.
- IBC Section 2406.1 will be changed to read:

**All glass in glazed areas, including glass mirrors, single panes of glass, laminated glass and all panes in multi-pane glass assemblies in hazardous locations as defined in 2406.4 shall comply with Sections 2406.1.1 through 2406.1.4.**

- **\*\* UNANIMOUSLY ADOPTED \*\***

# Proposal S231-22

- Section 2406.4.3 of the IBC exempts outboard panes in multi-pane window assemblies from the application of safety glazing requirements IF they are located 25' or more above grade.
- This proposal reduces the 25' trigger in Section 2406.4.3 to 8' above grade - a height out of the reach of human impact - because safety glazing is designed to minimize "cutting and piercing injuries" from human impact. It is not designed to keep people from falling out of buildings.
- IBC Section 2406.4.3 will be changed to read:  
  
**Outboard panes in insulating glass units or multiple glazing [shall not require safety glazing] where the bottom exposed edge of the glass is 8 feet (2438 mm) or more above any grade or walking surface adjacent to the glass exterior.**

• **\* ADOPTED \***

# Proposal S234-22



This proposal requires glass floors that do NOT comply with ASTM 2751, to have their design approved by the AHJ as an alternate method of construction.

**\* ADOPTED \***

# GICC Proposal S235-22

- This proposal provides objective data for the design of glass guards to meet a "factor of safety of four."
- Section 2407.1.1 will be changed to read:

**Glass handrails and guards and their support systems shall be designed to withstand the loads specified in Section 1607.9. Calculated stresses in glass elements of handrails and guards due to these loads shall be limited to a maximum of 3,000 psi (20.7 MPa) for heat strengthened glass and 6,000 psi (41.4 MPa) for fully tempered glass.**

- **\*\* UNANIMOUSLY ADOPTED \*\***



# School Security

## NGA Advocacy One-Pager for Legislators *School Security: Windows and Doors Respond First*

- Advocate for federal funding for security glazing in high-risk areas of schools
- ASTM F3561 Standard Test Method for Forced-Entry-Resistance of Systems after Simulated Active Shooter Attack serves as the minimum industry-accepted standard for security windows and doors for schools.

## NGA Sponsored Architectural Record Webinar *The Power of Protective Glass and Glazing*- Nearly 700 architects participated

**IBC Code Proposals:** NGA Code Consultants drafted proposals for security glazing in high-risk public buildings. Working in cooperation with door hardware industry and window film industry (IWFA).

## AIA presentation for architects *Security Glazing for Schools*

## Glass Magazine

- [Ideabook: Glass the Protector](#)
- [Article: School Security Glazing FAQs](#)
- [Article: California Middle School Showcases Indoor/Outdoor Learning Spaces...](#)
- [Blog: Supporting School Security Requires Education and Available, Tested Products](#)
- [Blog: School Safety and Security is Another Way Glass Can Save the World](#)

## NGA Technical Papers and Manuals:

- [School Security](#)
- [Security Glazing](#)
- [Laminated Glazing Reference Manual](#)
- [Protective Glazing Manual](#)

## NGA Thirsty Thursday on-demand recording- *Security Glazing for Schools*

**NGA** NATIONAL GLASS ASSOCIATION with GANA | **ADVOCACY**

### School Security: Windows and Doors Respond First

**The request:**

- Support H.R. 887: Securing Our Students Act, allocating additional funds to schools for bullet-resistant doors and windows.
- Endorse the use of H.R. 887 funds for security windows and doors for high-risk areas in schools that meet, at a minimum, the new ASTM standard on active shooter attack.

**The issues:**  
From 1970 to 2022, there were:

- 2634 incidents of school shooting, defined as shots fired on school property.
- 394 active shooter incidents, defined as the shooter killing and/or wounding victims, either targeted or random, during a continuous episode of violence on K-12 school property.
- 786 deaths and 2224 injuries from these incidents.

Active shooter events in schools are becoming more frequent. In 2020 and 2021, there were 190 active shooter events in schools despite many schools holding fewer in-person school days during the pandemic.

**The strategy:**  
In active shooter events, windows and doors can be the first line of defense, slowing down an attacker when installed as security glazing resistant to forced entry, allowing more time for schools to enact emergency plans and for first responders to arrive.

**ASTM F3561 Standard Test Method for Forced-Entry-Resistance of Systems after Simulated Active Shooter Attack** serves as the minimum industry-accepted standard for security windows and doors for schools.

High risk areas of school buildings include entrance lobbies, corridor classroom windows and cafeterias.

Window and door solutions - glass can be part of the school's security plan as the "first element of surprise."

- Glass in a security window or door looks like a typical window but can slow down or deter an active shooter's entry into the building.
- Windows and doors can be a first line of defense and allow for line of sight, allowing school personnel and first responders to see impending danger.
- Security windows and doors can assist in creating secure spaces in classrooms and throughout the building.
- Translucent glass can provide privacy and allow light to enter while selectively blocking line of sight of attackers.
- Windows and doors can be designed for forced entry resistance, bullet-resistance, or both.
- Retrofit options are readily available to replace existing windows and doors.
- Security windows and doors can create a secure environment for teachers and students without imposing visible barriers.
- Security windows and doors provide passive protection, even during power outages.

Students in classrooms with natural daylight score 7-30% higher in math and reading and have lower rates of absenteeism.



Year	Instances
2015	118
2016	133
2017	155
2018	188
2019-2021	278

The average length of active shooter events is 8 minutes; the shortest time is 90 seconds. Response times for first responders average 3 minutes, so some active shooter events are over even before first responders arrive.

Common locations for active shooters to begin the attack are entrance/exit areas and cafeterias.

There are no building codes or mandates for school security. In comparison, every building is subject to fire codes because of (relatively smaller numbers of) historic deaths in building fires. Since the adoption and enforcement of the fire codes, the number of deaths from fires has dramatically decreased.



National Glass Association (NGA) combined with the Glass Association of North America (GANA) in 2016 to create the largest trade association serving our industry. We develop standards, create technical resources, and promote and advocate for glass in the built environment. Learn more at [glass.org/about-us/about-us](#). For further information on windows and doors for school security, please feel free to contact NGA Technical Staff at [technical@ngaglass.org](mailto:technical@ngaglass.org).

New school security requirements are being considered at the Federal level and in many states.



# Building Security Legislation- Federal



*These Acts are all proposed- not laws yet.*

- **H.R. 887: Securing Our Students Act**, allocating funds to schools for bullet-resistant doors and windows.
- **H.R. 2483, S.1083: School Security Enhancement Act**, implementing infrastructure for school safety reinforcement, including bullet-resistant doors and windows.
- **H.R. 2592: Safe Schools Act** permitting schools to use remaining pandemic funding on school security measures, including building hardening.
- **H.R. 3618: Safer Schools Act of 2023** establishing a grant program to encourage schools to conduct independent facility risk assessment and make hard security improvements.
- **H.R. 2491, S. 1107: SAFE School Act** establishing grants for securing doors through external passcodes, internal locks, peepholes, bulletproof glass or ballistic film, automatic door locking mechanisms, and access control doors.
- **H.R. 5049, S. 2608: Rebuild America's Schools Act of 2023** providing funding to ensure the building envelopes and interiors of public school facilities protect occupants from natural elements and human threats and are structurally sound and secure.

New school security requirements are being considered at the Federal level and in many states.



# Building Security Legislation- State



- Tennessee law requiring public schools to install a **clear, bullet-resistant or entry-resistant film** on the glass panel of each exterior entry or basement level window.
- Texas School Districts Subchapter CC. Commissioner's Rules Concerning School Facilities:  
Ground-level windows near exterior doors shall be constructed or modified such that the glass cannot be easily broken and allow an intruder to enter through the window frame (for example, using **forced entry-resistant film**).

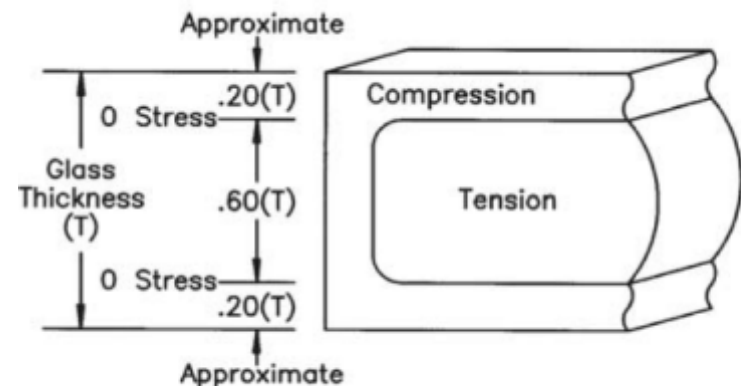
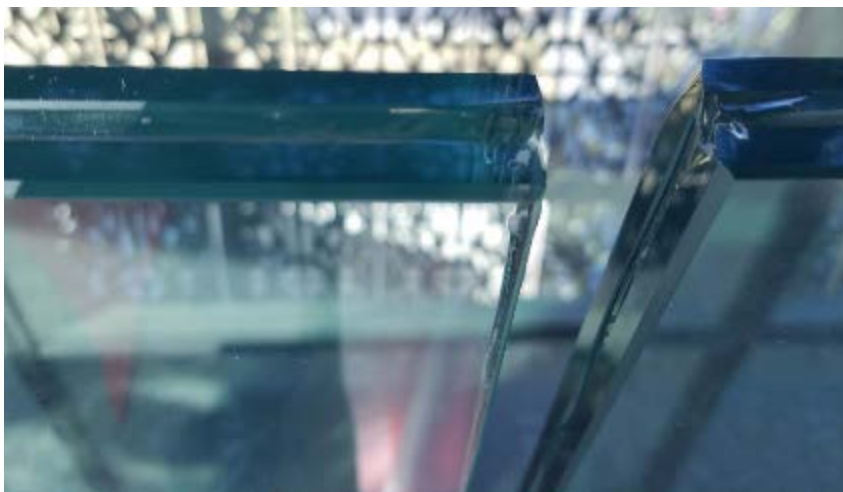
*These Acts are all laws at the State level.*



Frameless Shower  
Enclosure Design and  
Installation Manual

- Managing expectations
- Designing the shower
- Measuring
- Installing
- Maintenance/Cleaning
- Troubleshooting
- Safety

# NGA Study: Test Procedure for Edge Grinding of Laminates Post-Tempering



**Heat-Treated Glass Compression and Tension Zones**

- ASTM C1048: fabrication techniques that alter the glass surface, thickness or edge shall be performed prior to heat treating to avoid a reduction in glass strength
- ASTM C1172: fabrication techniques should be performed prior to heat treatment
- NGA GTP *Heat-treated Laminated Glass Exposed Edges*
- NGA GTP *The Importance of Fabrication Prior to Heat-Treatment*

Does post-tempering edge grinding actually reduce laminate strength?

What depth of post-tempering edge grinding preserves laminate strength?

Interested in participating? Email Urmilla Sowell-  
usowell@glass.org

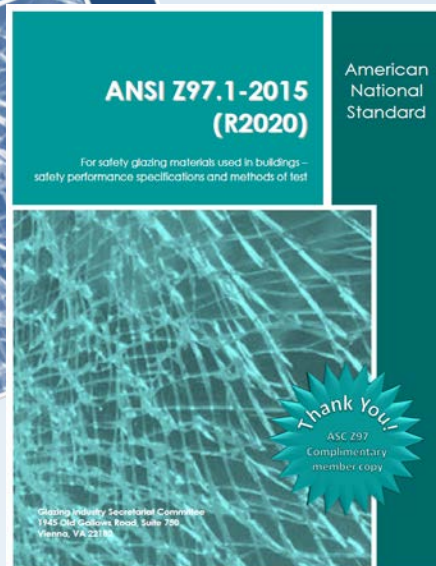


ANSI Z97.1  
Published  
September 2015  
Reaffirmed  
September 2020



CPSC 16 CFR 1201

CAN/CGSB – 12.1-  
2022  
Published  
February 2022



## PART 1201—SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS

### Subpart A—The Standard

- Sec.
- 1201.1 Scope, application and findings.
  - 1201.2 Definitions.
  - 1201.3 General requirements.
  - 1201.4 Test procedures.
  - 1201.5 Certification and labeling requirements.
  - 1201.6 Prohibited stockpiling.
  - 1201.7 Effective date.



# 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, proposing further limitations.
- Funds available to support future glass standard development (3yrs to update)
  - \$1B towards 12.20 Structural glass in buildings, 12.8 Insulating and 12.1 Safety glass
- CAN/CGSB 12.1 (Safety Glass) **revised** in 2022
  - No substantive changes, but enough for a revision

\*\* As a result, SGCC requires a labeling change

Mandatory Jan. 1, 2024

CAN/CGSB-12.1-2022

Supersedes CAN/CGSB-12.1-2017

## 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

# 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>.



# 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)

## CONSENSUS BODY (The Committee – 28 Members)

- ❖ Voting on the standard
- ❖ Maintaining the standard
  - ❖ Adopting policies
  - ❖ Other matters

## STEERING COMMITTEE (Wright, Sowell, Kent, Schimmelpenningh)

- Propose standards
- TI's
- Overall supervision
- Establish general policies
- Adopting & implementing procedure
- Membership review
- Financial responsibility
- Propose Task Groups Schedule

## SECRETARIAT (GISC) (Haberer, Merryman, Schmidt)

- Apply for accreditation
- Oversee consensus body for compliance
- Maintain roster
- Provide secretary
- Submitting standards to ANSI
- Secretariat submits budget to SC

## OFFICERS

Chari – Kent  
Vice Chair – Open

- Appointed by secretariat
- Subject to approval by majority vote of CB

# ASC Z97 Committee Update

## ANSI Z97.1-2015 (R2020)

### o June 21<sup>st</sup>, 2023, Full committee

A. Request volunteers for vice chair

B. Plan forward –

1. Task Group activities have begun

2. Likely will not be ready for revisions before 2025 (likely reaffirmation)

3. Target 2030 significant revisions

C. Task Groups formed & Scopes Drafted

1. Test Method and/or Specification – (Ilona Schmidt – Corning)

1. Proposing new wording to Section 1.3 Limitations to define wire glass (not fire rated)

2. New Alternate Impactor – (Michelle Phan – Cardinal)

a. Looking into bullet/torpedo impactor method

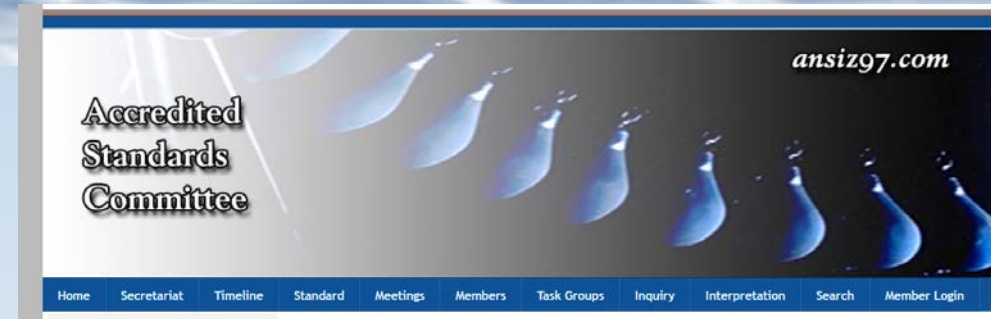
3. ASTM reference vs language in std. (Urmilla Sowell – NGA)

4. Misc. Issues (Scott Norville – GI)

o Committee is out of balance (due to rule change, other) 28 Members

**Actively soliciting non “Fabricator/Distributor” members**

o Next committee call September 27<sup>th</sup>, 2023 at 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

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**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: \_\_\_\_\_

# 11 – Program Testing Results Review



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). <ul style="list-style-type: none"> <li>• failure by % failure rate</li> <li>• Boil and Impact failure rates separate.</li> </ul>
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[SGCC/Charts/ProgramTestResults](#)

### Laminated Failures By Thickness

Failure Codes

NCB - Non Compliant Laminated Boil ✕ |

Would you like to see this data in your Certification Information Portal (CIP)???

[SGCC/Charts/LaminatedFailuresByThickness](#)

### Tempered Failures By Thickness

Failure Codes

NCL - Non Compliant Label ✕ |

Prioritize Future Ideas...

9 Testing Results	AMS	<b>Future Ideas:</b> <ul style="list-style-type: none"> <li>• Per company, per plant compared to the rest of the industry.</li> <li>• MC details - Can we display the Coated Glass failure by thickness in chart form</li> <li>• Product historical performance</li> <li>• Additional Lami information</li> <li>• Other...</li> </ul>	
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[SGCC/Charts/TemperedFailuresByThickness](#)

## Program Testing Results - Historical

Year	Total Specimens Tested (Sets)	Selections (% of total products)				Product Failures (Calendar Year)				Failures														
		Participant %	Inspector %	Total Tempered Products %	Total Laminated Products %	Total Failures		Participant Selected % failure	Inspector Selected % failure	Tempered			Tempered (TTG)			Tempered (TPG)			Laminated Impact			Laminated Boil		
						Total Failures	Total 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
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

Notes:  
 Failure totals for tempered and laminated glass was not recorded until 2005  
 N/A = Not Available

# Program Testing Results

Year	Total Specimens Tested (Sets)	Selections (% of total products)				Product Failures (Calendar Year)						Testing Failures								
		Participant %	Inspector %	Total Tempered Products %	Total Laminated Products %	Total Failures	Total Failures %	Total Testing Failures	Total Testing Failures %	Participant Selected % Failure	Inspector Selected % Failure	Tempered Impact Failures	Tempered Impact % of Total Failures	% of Total Tempered Failure	Tempered TTG Impact Failures	Tempered TTG Impact % of Total Failures	% of TTG Only Failure	Tempered TPG Impact Failures	Tempered TPG Impact % of Total Failures	% of TPG Only Failure
2023	4312	88%	4%	85%	14%	120	3%	88	2.0%	3%	0%	53	44%	1%	44	37%	1%	9	8%	0%
2022	6557	90%	5%	87%	13%	227	3%	182	2.8%	3%	0%	127	56%	2%	90	40%	2%	30	13%	1%
2021	6419	93%	3%	87%	13%	222	3%	163	2.5%	3%	0%	111	50%	2%	83	37%	1%	24	11%	0%
2020	5983	91%	2%	87%	13%	158	3%	113	1.9%	3%	0%	76	48%	1%	61	39%	1%	12	8%	0%
2019	6239	91%	2%	88%	12%	203	3%	136	2.2%	3%	0%	91	45%	2%	65	32%	1%	23	11%	0%
2018	5624	87%	5%	89%	11%	201	4%	125	2.2%	3%	0%	78	39%	2%	45	22%	1%	29	14%	1%

Year	Total Specimens Tested (Sets)	Testing Failures					
		Laminated Impact Failures	Laminated Impact % of Total Failures	Laminated Impact % of Total Lami Products Failure	Laminated Boil Failures	Laminated Boil % of Total Failures	Laminated Boil % of Total Lami Products Failure
2023	4312	13	11%	2%	22	18%	4%
2022	6557	40	18%	5%	15	7%	2%
2021	6419	37	17%	5%	15	7%	2%
2020	5983	28	18%	4%	9	6%	1%
2019	6239	36	18%	5%	9	4%	1%
2018	5624	38	19%	6%	9	4%	1%

**Note:**

Total Failures = Non Compliant, NC Impact, NC Boil, NC Label, NC Thickness Laminated, NC Laminated Interlayer, NC Thickness Tempered, NC Sample Size

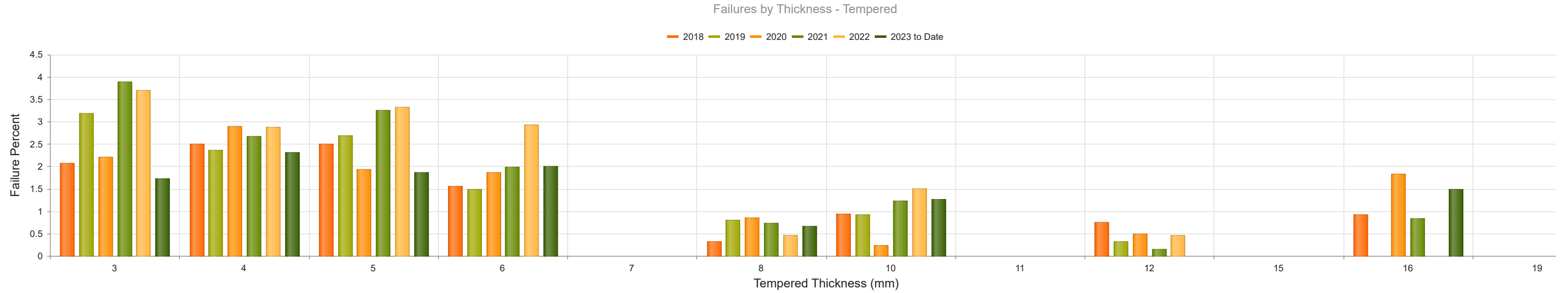
Total Testing Failures = NC Impact, NC Boil

Test Results 2000-2017 are located on the *Program Testing Results - Historical* Table

# Tempered Failures By Thickness

## Failure Codes

NCI - Non Compliant Impact ✕

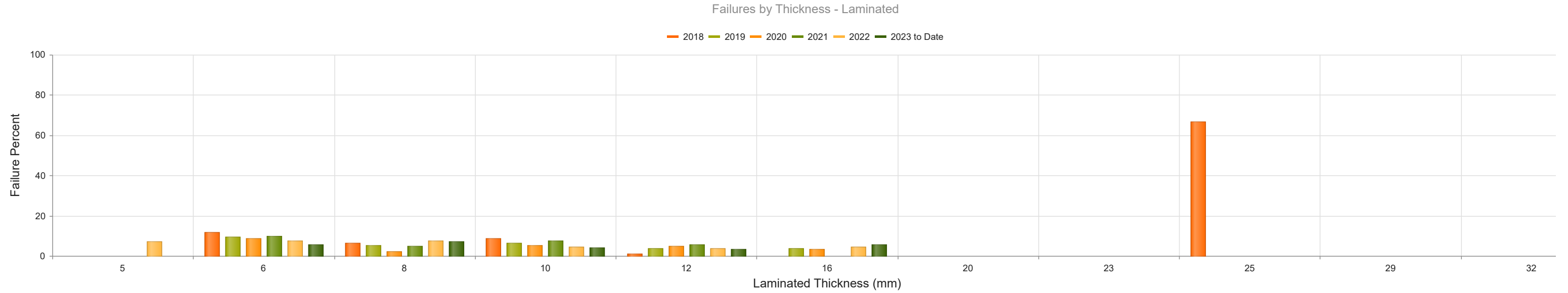


Thickness	3 mm		4 mm		5 mm		6 mm		7 mm		8 mm		10 mm		11 mm		12 mm		15 mm		16 mm		19 mm	
	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested
2023 to Date	7	404	9	389	12	644	14	696	0	2	2	302	8	630	0	0	0	429	0	37	1	67	0	97
2022	25	674	17	589	34	1021	31	1058	0	4	2	428	14	929	0	0	3	659	0	55	0	110	1	170
2021	26	669	16	600	33	1015	20	1009	0	4	3	411	11	890	0	0	1	647	0	53	1	120	0	180
2020	14	635	16	553	18	933	18	965	0	4	3	352	2	833	0	0	3	608	0	51	2	109	0	177
2019	22	690	14	592	27	1004	15	1008	0	6	3	373	8	863	0	0	2	619	0	60	0	99	0	187
2018	14	675	14	561	23	916	14	901	0	4	1	310	7	749	0	1	4	535	0	53	1	108	0	175

# Laminated Failures By Thickness

## Failure Codes

NCB - Non Compliant Laminated Boil  NCI - Non Compliant Impact

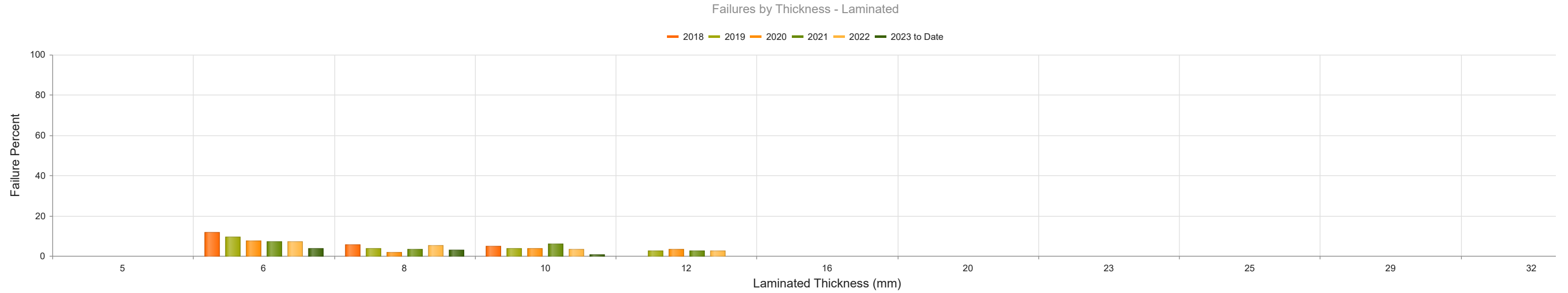


Thickness	5 mm		6 mm		8 mm		10 mm		12 mm		16 mm		20 mm		23 mm		25 mm		29 mm		32 mm	
	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested
2023 to Date	0	7	8	137	17	239	5	116	3	89	2	36	0	0	0	0	0	1	0	0	0	1
2022	1	14	15	197	26	342	7	147	4	108	2	45	0	0	0	0	0	2	0	1	0	2
2021	0	12	20	203	15	308	10	134	7	121	0	35	0	0	0	0	0	4	0	1	0	2
2020	0	12	16	180	7	290	7	128	6	117	1	30	0	0	0	0	0	2	0	1	0	1
2019	0	12	18	190	15	285	7	110	4	108	1	26	0	1	0	0	0	1	0	0	0	0
2018	0	11	19	162	18	270	7	81	1	86	0	18	0	2	0	1	2	3	0	0	0	0

# Laminated Failures By Thickness

## Failure Codes

NCI - Non Compliant Impact ✕



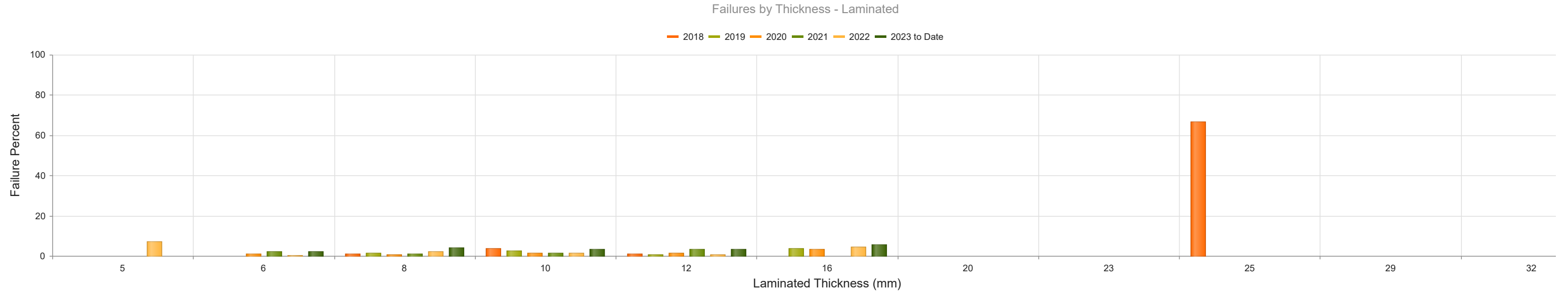
Thickness	5 mm		6 mm		8 mm		10 mm		12 mm		16 mm		20 mm		23 mm		25 mm		29 mm		32 mm	
	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested
2023 to Date	0	7	5	137	7	239	1	116	0	89	0	36	0	0	0	0	0	1	0	0	0	1
2022	0	14	14	197	18	342	5	147	3	108	0	45	0	0	0	0	0	2	0	1	0	2
2021	0	12	15	203	11	308	8	134	3	121	0	35	0	0	0	0	0	4	0	1	0	2
2020	0	12	14	180	5	290	5	128	4	117	0	30	0	0	0	0	0	2	0	1	0	1
2019	0	12	18	190	11	285	4	110	3	108	0	26	0	1	0	0	0	1	0	0	0	0
2018	0	11	19	162	15	270	4	81	0	86	0	18	0	2	0	1	0	3	0	0	0	0



# Laminated Failures By Thickness

## Failure Codes

NCB - Non Compliant Laminated Boil ✕



Thickness	5 mm		6 mm		8 mm		10 mm		12 mm		16 mm		20 mm		23 mm		25 mm		29 mm		32 mm	
	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested	Failures	Tested
2023 to Date	0	7	3	137	10	239	4	117	3	89	2	36	0	0	0	0	0	1	0	0	0	1
2022	1	14	1	197	8	342	2	147	1	108	2	45	0	0	0	0	0	2	0	1	0	2
2021	0	12	5	203	4	308	2	134	4	121	0	35	0	0	0	0	0	4	0	1	0	2
2020	0	12	2	180	2	290	2	128	2	117	1	30	0	0	0	0	0	2	0	1	0	1
2019	0	12	0	190	4	285	3	110	1	108	1	26	0	1	0	0	0	1	0	0	0	0
2018	0	11	0	162	3	270	3	81	1	86	0	18	0	2	0	1	2	3	0	0	0	0

# 12a – SGCC Laboratory Approval Status (Last updated 8/22/2023)



Sub Committee: Laboratory and QA Inspection	Chair: Michelle Phan - Cardinal
Staff Contact: Katrina Stafford	
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.	

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.**

# 12a. Continued

Company	Location	Date of Last Inspection	Date of Initial Approval	Approved by Program CC (date)	Accredited to ISO/IEC 17025 Agency **	Lab Agreement (date)	No. of C Plants
Intertek	Cortland, NY	EST 11/2023	1981	9/29/2021	IAS TL-212	12/10/2015	19
	Fresno, CA	11/2/2022	11/18/1997	9/29/2021	IAS TL-264	11/13/2015	85
	Fridley, MN	4/19/2023	10/6/1992	9/29/2021	IAS TL-285	11/13/2015	27
	Kent, WA	12/12/2022	10/29/2009	9/29/2021	IAS TL-330	11/13/2015	20
	Lithia Springs, GA	5/10/2022	5/17/2012	9/29/2021	IAS TL-338	11/13/2015	28
	Mississauga, ON	11/16/2022	2/20/2015	9/29/2021	IAS TL-273	1/28/2015	41
	Plano, TX	3/8/2023	7/1/2004	9/29/2021	IAS TL-331	11/13/2015	61
	Pittsburgh Springdale, PA	9/22/2022	11/5/2018	9/29/2021	IAS TL-361	7/16/2018	MOVED
	York, PA	6/6/2022	6/30/1985	9/29/2021	IAS TL-144	11/13/2015	64
	Vancouver, BC	9/27/2022	9/19/2017	9/29/2021	IAS TL-274 & SCC#15074	7/24/2017	9
QAI Laboratories	Medley, FL	5/22/2023	10/2/1997	9/29/2021	IAS TL-948	10/19/2015	88
National Certified Testing Laboratories, Inc. ★	Everett, WA	EST 11/2023	10/14/1997	9/29/2021	A2LA #3054.03	10/19/2015	5
	York, PA	EST 11/2023	5/19/2011	9/29/2021	A2LA #3054.01	10/19/2015	17
Bowser-Morner, Inc.	Dayton, OH	3/14/2023	1991	9/29/2021	ANAB #L2444	10/22/2015	19
Construction Consulting Laboratory West	Ontario, CA	8/15/2022	11/19/1997	9/29/2021	IAS TL-226	12/4/2015	32
Element Materials Technology	Des Moines, IA	4/6/2023	6/11/1999	9/29/2021	A2LA #0098.06	12/1/2015	23
PRI Construction Materials Technologies	Tampa, FL	5/30/2023	5/19/2017	9/29/2021	IAS TL-189	4/19/2017	26
Molimo	York, PA	3/20/2023	3/27/2019	9/29/2021	IAS TL-678	3/26/2019	17
Blackwater Technical Services, Inc.	West Palm Beach, FL	10/10/2022	2/13/2023	2/13/2023	AT-2584	9/16/2022	2

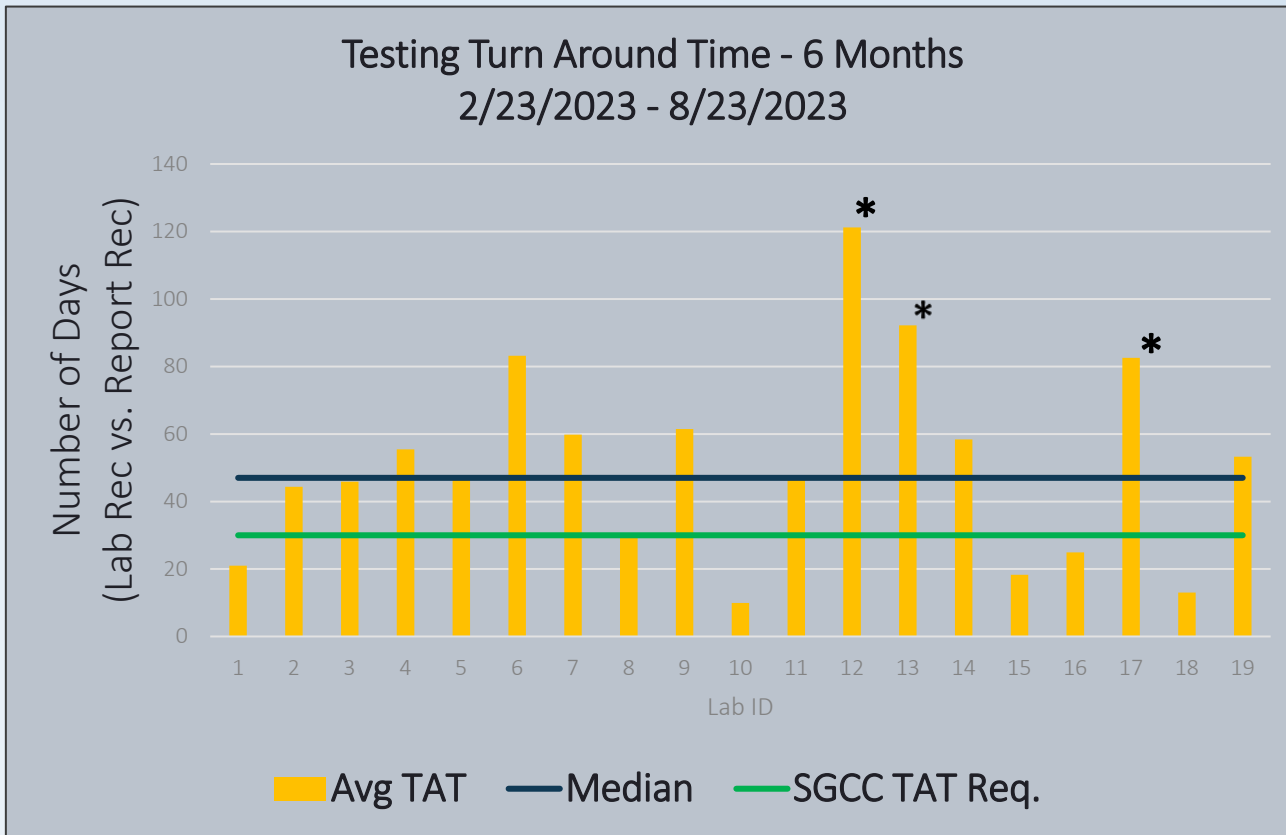
NCTL Purchased By Molimo

Motion  
 1<sup>st</sup>: June Willcott  
 2<sup>nd</sup>: Bill Nugent  
 Vote: UA Pass

~~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

# 12a. Continued

11a	Lab Subcommittee	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
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## Importance of Glass Tracking SGCC Staff – Laboratories – Fabricators

- Accuracy of Turn Around Time
- Confirmation for Fabricators & SGCC Staff
  - Accuracy of Billing
- Prevent Unnecessary Expenses for Clients
  - Streamline Communication

*Labs,  
How do you track shipments?  
When do you verify contents of shipment?*

*Labs, what effects your turn around time most?*

# 12b- 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

Procedure for Measuring Interlayer Thickness

As per section E.4 of the SGCC lab manual, measure the thickness of the plastic interlayer by performing procedure 1, Press the buttons on the left panel in the correct order to fill in the variables and solve the equation at the bottom.

0.000

Overall Thickness - Lito 1 - Lito 2 = Interlayer Thickness Submit

Z97TM-140a

Year	Lab Personnel to Complete the Exam
2019	35
2020	51
2021	53
2022	61
2023 YTD	TBD

\*The 2023 edition of the IA has been provided to personnel involved in SGCC testing as of **8/17/2023**

Participating personnel have noted the exam as a “Very useful test”

The IA training is intentionally updated every year in order to provide the most accurate and up to date information to our technicians.

# 12c – SGCC Lab Manual



11b	Lab SubCommittee	Lab Sub Committee present new wording for the Lab manual: <ol style="list-style-type: none"><li>1. to further clarify the “All Personnel performing SGCC testing” and the intent of what this means.</li><li>2. Implementation to the new version of CAN/CGSB 12.1-2022</li></ol>
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- **A.5 Damaged Specimen** (formerly Instruction G.3) - Any damage to a specimen is to be noted on the Sample Receipt Form(s) (SRF) and the SRF returned to SGCC, immediately. You must state if the specimen was damaged before or after receipt at the laboratory. The laboratory should identify if the specimen(s) are in a condition suitable for testing. When any question exists as to the suitability for test of damaged specimen(s) or the entire set, the laboratory shall notify the administrative office who, in turn, shall seek the direction of the program Licensee. Specimen(s) with any damage (glass or shipping) should only be used as a last resort and only with the authorization of the administrative office. You will be notified within two weeks as to disposition of the damaged specimens. ~~If specimens are damaged at the laboratory due to the fault of the laboratory, the cost of shipping replacement test samples may be at the laboratories expense.~~
- Added to C.10 Product Failure: ~~Example photo shown, photos should include a form of reference scale (e.g., ruler, tape measure, forensic ruler, etc.)~~

# 12c – SGCC Lab Manual Cont.



- **D.9 Laboratory Technician training** – Per the minutes 10.3.18.3 of the Certification Committee meeting, it is mandated that any technicians either signing SGCC test reports (excluding Professional Engineer (P.E.)), or performing SGCC testing, are required to take and pass annually (Passing requirements = 100%) the SGCC Laboratory Interactive Animation training exam. Implementation of these changes were effective 1/1/2020.
- ~~E.9 Glass Kind – Laminated glass is also certified by its base glass Kind (AN= annealed, HS= heat strengthened, FT= tempered, CS= chemical strengthened). See SGCC guideline L.8 for Certification coverage.~~
- All references to CAN/CGSB 12.1 – 2017 were removed and replaced with CAN/CGSB 12.1 - ##### to allow for representation of most recent Standard year.

~~Proposed Motion:~~ Motion to approve Lab Manual changes as presented above.

Motion  
1<sup>st</sup>: Mark Hutchinson  
2<sup>nd</sup>: Rick Wright  
Vote: UA Pass

# 12c – SGCC Lab Manual

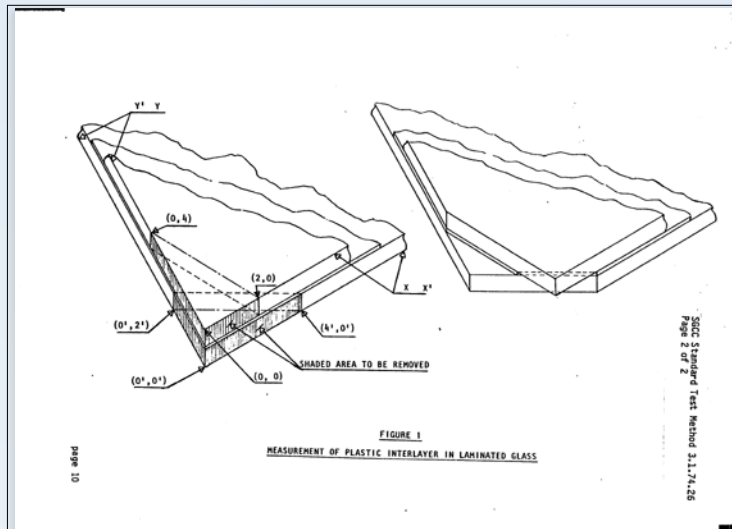


LAB SC  
Discussion

*Testing Labs, which method do you use for verifying interlayer thickness?*

SD-060 SGCC Lab Manual outlines TWO options:

1. Procedure 1 is considered destructive to the specimen; Procedure 1 measurement shall be completed following testing.
2. Procedure 2 is non-destructive and is performed prior to testing.







# End Day 1

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- Virtual Attendees Use **Same** GoToWebinar Link as Today

# 1 – Call to Order and Agenda – SGCC Certification Committee

BY DIRECTION OF: MARK HUTCHINSON, acting Chair  
for 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. Legal Counsel's Report~~
- ~~4. Cullet Scanner by Softsolution – Nate Huffman~~
- ~~5. (M) Review and Approval of Previous Meeting Minutes~~
- ~~6. Committee Structure~~
- ~~7. Board of Directors Report~~
- ~~8. Administrative Report~~
- ~~9. Quick Action Sub-Committee Report~~

## Topics

- ~~10. ANSI Z97.1, CPSC, CAN/CGSB 12.1~~
- ~~11. Program Testing Results Review~~
- ~~12. Testing Laboratories~~
  - ~~a. (M) Laboratory Approval Status~~
  - ~~b. IA Training Update~~
  - ~~c. (M) SGCC Lab Manual~~
13. Laminated Safety Glass - Update
14. Coated Glass
15. City of LA
16. VIG
17. Old/New Business
18. Next Meeting



DAY 2

# 13 – Laminated Safety Glass



Sub Committee: Laminated Glass Review		Chair: Rick Wright - OBE	
Staff Contact: Kristin Best			
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 Safety Glass

Link to DRAFT SD-210

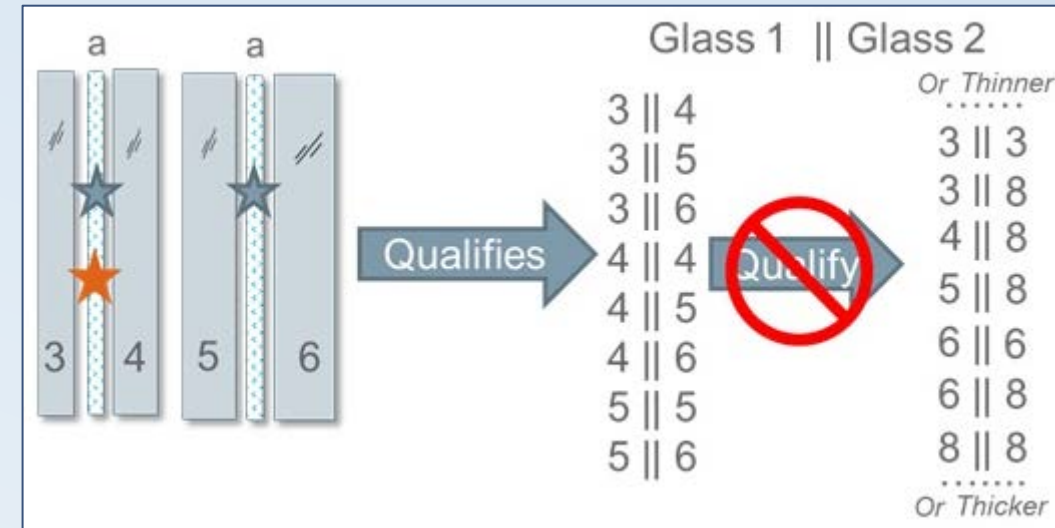
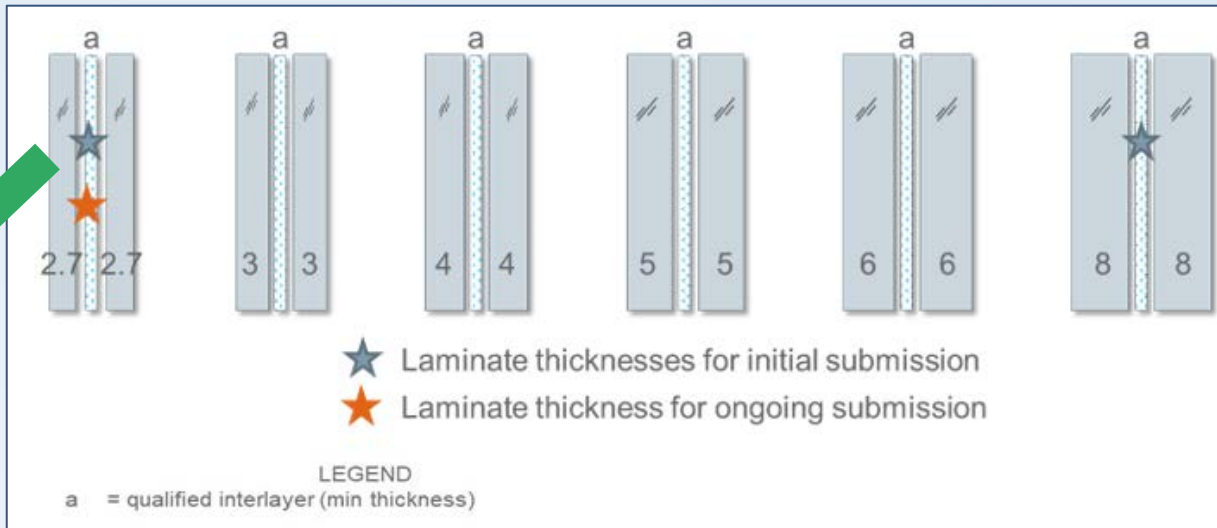
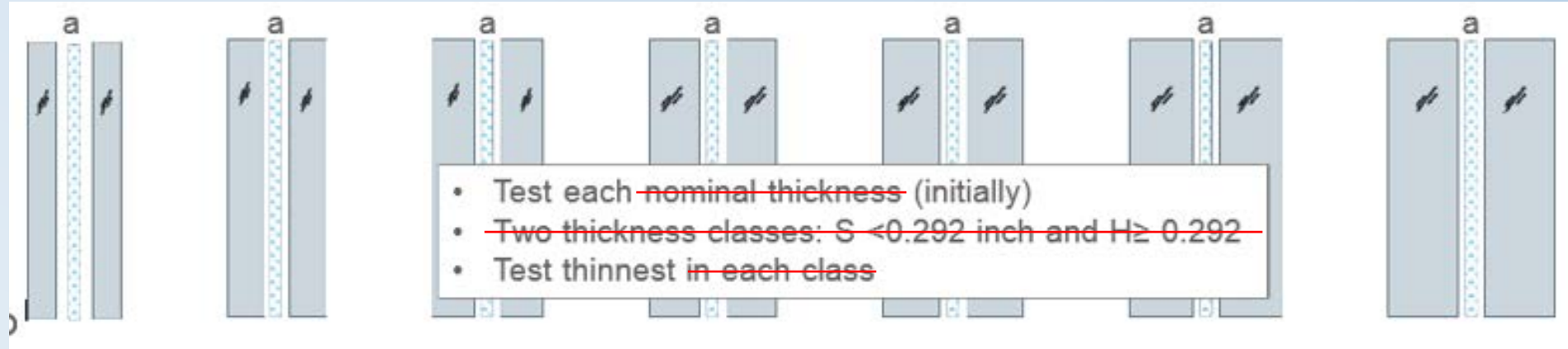
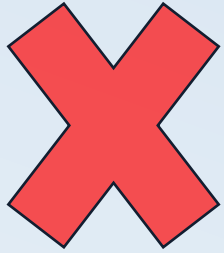


Adobe Acrobat Document



## Proposed Changes (Initial & Ongoing Testing)

- New Type: ~~Laminated Transparent Glass (LTG), Laminated Specialty Product (LSP),~~ LSG (Laminated Safety Glass)



# 13 – Laminated Safety Glass



Product configuration is displayed using **metric glass thickness** of each ply

“glass 1(mm) + glass 2 (mm), Interlayer thickness (mm) and SGCC interlayer designation”

Table 3: Typical Interlayer<sup>†</sup> Nominal Thickness

Metric (mm)	Traditional (in)
0.38	0.015
0.51	0.020
0.64	0.025
0.76	0.030
0.89	0.035
1.14	0.045
1.27	0.050
1.52	0.060

Table 2: Examples of laminated glass abbreviated nomenclature.

Detailed Configuration	Summary Nomenclature mm
3 mm (1/8 inch) glass   0.76 mm (0.030 inch) PVB interlayer   3 mm (1/8 inch) glass	3,3-0.76b
6 mm (1/4 inch) glass   1.52 mm (0.060 inch) TPU interlayer   6 mm (1/4 inch) glass	6,6-1.52u
4 mm (5/32 inch) glass   1.52 mm (0.060 inch) IP interlayer   6 mm (1/4 inch) glass	4,6-1.52ip

# 13 – Laminated Safety Glass



## Listing & Labeling

### Examples of labels:

ABC Glass  
16 CFR 1201 I  
ANSI Z97.1 – 2015  
SGCC AAAA UB

ABC Glass  
Laminated  
16 CFR 1201 II  
ANSI Z97.1 – 2015  
SGCC BBBB UA

ABC Glass  
Plant Code  
16 CFR 1201 II  
ANSI Z97.1 – 2015  
SGCC CCCC UA1



Optional label content: Supplier's Name, distinctive mark, plant location code, glass type as defined in ANSI Z97-15 section 5.1.4 (Type 1,2,3, or 4) or spelled out (Laminated, Tempered, Organic Coated or Plastic), and date of manufacture.

### Indoor Use Only Label Requirement (example)

ABC Glass  
16 CFR 1201 I  
ANSI Z97.1-2015  
SGCC AAAA UB  
INDOOR USE ONLY



### Sample Labels: (Minimum Requirements)

Federal Code (CPSC) designation 16 CFR 1201 – Performance Category (I or II)  
The words "American National Standard Z97.1-2015" or the characters "ANSI Z97.1-2015"  
SGCC number–ANSI Z97 test size classification (U or L) – drop height class (A or B)




- Thickness no longer required on Label for Laminated Products

# 13 – Laminated Safety Glass




## CURRENT PLANT CERTIFICATE

## PROPOSED PLANT CERTIFICATE



safety glazing  
certification council

Administrative Office, AMS, Inc.  
205 West Main Street, PO Box 730  
Sackets Harbor, NY 13685  
Phone: (315) 646-2234  
E-mail: SGCC@amscert.com



ANSI  
ACCREDITED  
ISO/IEC 17065  
Product Certification Body

### ACKNOWLEDGEMENT OF CERTIFICATION

THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE

Plant Name  
Location (City, State)

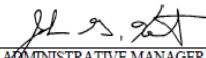
IS A CURRENT LICENSEE AND HAS MET ALL GUIDELINES AND REQUIREMENTS FOR THE SGCC® CERTIFICATION PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCT(S) AS SGCC® CERTIFIED. REPRESENTATIVE SAMPLES OF THE BELOW PRODUCTS HAVE BEEN FOUND TO BE IN COMPLIANCE WITH ANSI Z97.1-2015 AS INDICATED AND CPSC 16 CFR 1201 STANDARDS, KNOWN AS COMPOSITE CERTIFICATION (COMP), OR BOTH STANDARDS WITH CAN/CSG 12.1-2022 KNOWN AS COMP+CAN.

SGCC#	IN	MM	Attributes	INT	Type Code	Max Size	ANSI Class	Test Std
0123	1/4	6			TTG	U	A	COMP+CAN
0124	3/8	10			TTG	U	A	COMP+CAN
0125	3/16	5			TTG	U	A	COMP+CAN
0126	5/16	8			TTG	U	A	COMP+CAN
0127	(H)	8-16+	(b)(A)	(.030)	LTG	U	A	COMP+CAN
0128	(S)	6	(b)(A)	(.030)	LTG	U	A	COMP+CAN
0129	(H)	8	(ip)(A)	(.035)	LTG	U	A	COMP+CAN
0131	(S)	6	(ip)(A)	(.035)	LTG	U	A	COMP+CAN

THIS SGCC® PROGRAM CERTIFICATION IS CURRENT AND IN FULL EFFECT AS OF THIS ISSUE DATE. CERTIFICATION IN THE SGCC® PROGRAM IS SUBJECT TO SEMI-ANNUAL RENEWAL. PLEASE CHECK THE SGCC WEBSITE AT WWW.SGCC.ORG OR THIS OFFICE FOR MOST CURRENT INFORMATION.

Wednesday, August 23, 2023  
DATE OF ISSUE

F23  
CERTIFICATION PERIOD

  
ADMINISTRATIVE MANAGER

SD-13 Last Revised By: TDS 3/28/19 Last Approved By: KS 3/28/19



safety glazing  
certification council

Administrative Office, AMS, Inc.  
205 West Main Street, PO Box 730  
Sackets Harbor, NY 13685  
Phone: (315) 646-2234  
E-mail: SGCC@amscert.com



ANAB  
ACCREDITED  
ISO/IEC 17065  
Product Certification Body

### ACKNOWLEDGEMENT OF CERTIFICATION

THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE

Plant Name  
Location (City, State)

IS A CURRENT LICENSEE AND HAS MET ALL GUIDELINES AND REQUIREMENTS FOR THE SGCC® CERTIFICATION PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCT(S) AS SGCC® CERTIFIED. REPRESENTATIVE SAMPLES OF THE BELOW PRODUCTS HAVE BEEN FOUND TO BE IN COMPLIANCE WITH ANSI Z97.1-2015 AS INDICATED AND CPSC 16 CFR 1201 STANDARDS, KNOWN AS COMPOSITE CERTIFICATION (COMP), OR BOTH STANDARDS WITH CAN/CSG 12.1-2022 KNOWN AS COMP+CAN.

#### Laminated Safety Glass

SGCC#	Min. Conf	Max. Conf	Attributes	Type Code	Kind	Max Size	ANSI Class	Test Std
0127	3,3-0.38	8,8-0.38	(b)	LSG	AN	U	A	COMP+CAN

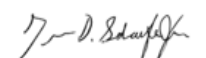
#### Tempered Transparent Glass

SGCC#	IN	MM	Attributes	Type Code	Max. Size	ANSI Class	Test Std
0127			(b)	LSG	U	A	COMP+CAN

THIS SGCC® PROGRAM CERTIFICATION IS CURRENT AND IN FULL EFFECT AS OF THIS ISSUE DATE. CERTIFICATION IN THE SGCC® PROGRAM IS SUBJECT TO SEMI-ANNUAL RENEWAL. PLEASE CHECK THE SGCC WEBSITE AT WWW.SGCC.ORG OR THIS OFFICE FOR MOST CURRENT INFORMATION.

Thursday, August 24, 2023  
DATE OF ISSUE

L23  
CERTIFICATION PERIOD

  
ADMINISTRATIVE MANAGER

SD-13 Last Revised By: TDS 3/28/19 Last Approved By: KS 3/28/19

# 13 – Laminated Safety Glass



## CURRENT CPSC

## PROPOSED CPSC



safety glazing certification council

P.O. BOX 730  
SACKETS HARBOR, N.Y. 13685  
PHONE: 315-846-2234  
FAX: 315-846-2297

### Record of SGCC Compliance Testing

The information contained herein is viewed to be accurate by SGCC, a third party certification agency, as of the indicated date of issue.

1)	<b>Identification of the Product:</b>	0123; (H)* (8-12 mm) LTG U
2)	<b>Citation or Standard to Which the Product is Being Certified:</b>	ANSI Z97.1-2015 CLASS A and CPSC 16 CFR 1201 II
3)	<b>Identification of the Importer or Domestic Manufacturer:</b>	Plant Name Address Phone:
4)	<b>Contact Information for Individual Maintaining Records of Testing:</b>	See 5) below
5)	<b>Date and Place of Manufacture:</b>	Date Available from Manufacturer Plant Name Address Phone:
6)	<b>Date and Place Product was Tested for Compliance:</b>	6/13/2023 PRI Construction Materials Technologies 6412 Badger Dr Tampa, FL 33610 Phone: 813-621-5777 Email: brad.grzybowski@pri-group.com
7)	<b>Identification of Third Party Laboratory:</b>	See 6) above

**For additional information, contact the manufacturer or US Importer directly**

6/13/2023

DATE OF ISSUE

  
ADMINISTRATIVE MANAGER



safety glazing certification council

P.O. BOX 730  
SACKETS HARBOR, N.Y. 13685  
PHONE: 315-846-2234  
FAX: 315-846-2297

### Record of SGCC Compliance Testing

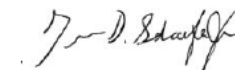
The information contained herein is viewed to be accurate by SGCC, a third party certification agency, as of the indicated date of issue.

1)	<b>Identification of the Product:</b>	0123; <b>Min. Conf. 3,3-0.38 Max Conf. 8,8-0.38</b> LSG U
2)	<b>Citation or Standard to Which the Product is Being Certified:</b>	ANSI Z97.1-2015 CLASS A and CPSC 16 CFR 1201 II
3)	<b>Identification of the Importer or Domestic Manufacturer:</b>	Plant Name Address Phone:
4)	<b>Contact Information for Individual Maintaining Records of Testing:</b>	See 5) below
5)	<b>Date and Place of Manufacture:</b>	Date Available from Manufacturer Plant Name Address Phone:
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**For additional information, contact the manufacturer or US Importer directly**

6/13/2023

DATE OF ISSUE

  
ADMINISTRATIVE MANAGER



# 13 – Laminated Safety Glass

## CURRENT CPD LISTING



January 2023

### Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS	SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS
<b>Wujiang CSG Huadong Architectural Glass Co., LTD ; Suzhou, Jiangsu</b>							<b>Xinyi Group (Glass) Co., Ltd. ; Dongguan, Guangdong Province</b>						
6784	COMPOSITE	3/16		5.0TTG		UA	3085	COMP+CAN	3/16		5.0TTG		UA
6785	COMPOSITE	1/4		6.0TTG		UA	3053	COMP+CAN	1/4		6.0TTG		UA
6786	COMPOSITE	5/16		8.0TTG		UA	4648	COMP+CAN	5/16		8.0TTG		UA
6787	COMPOSITE	3/8		10.0TTG		UA	3054	COMP+CAN	3/8		10.0TTG		UA
6788	COMPOSITE	1/2		12.0TTG		UA	3055	COMP+CAN	*		12.0TTG (4)		UA
6789	COMPOSITE	*		15.0TTG (4)		UA	4179	COMP+CAN	*		15.0TTG (4)		UA
6790	COMPOSITE	(H)		10-16+LTG (b)(A)	(.030)	UA	3489	COMP+CAN	(H)		10-16+LTG (b)(A)	(.030)	UA

## PROPOSED CPD LISTING

### Sample Certified Products Directory (CPD) Listing

SGCC#	TEST STD	MIN CONFIGURATION	MAX CONFIGURATION	TYPE	KIND	MAX SIZE	ANSI CLASS
AAAA	Composite	3,3-0.38(b)	8,8-0.38(b)	LSG	AN	U	B
BBBB	Composite	3,3-0.76 (b)	6,6-0.76(b)	LSG	HS	U	A
CCCC	Composite	5,5-0.89(jg)	8,8-0.89(jg)	LSG	FT	U	A

# 13 – Laminated Safety Glass



## *Lami SGCC Numbers...Old or New???*

### Review of Current Certification

SGCC # 0000 (S) 6 LTG (ip)(A) (.030) U A  
SGCC # 0000 (H) 12 LTG (ip)(A) (.030) U A } SGCC #0000 Min. Conf. 3,3-0.76ip Max. Conf. 6,6-0.76ip (A) U A

SGCC #0000 (H) 12 LTG (ip)(A) (.060) U A → SGCC #0000 6,6-1.52ip (A) U A

- Condense existing certifications
  - New SGCC Number linked to historical data (new labels required with updated labeling requirements)?
- OR
- Allow plant to choose which number(s) will be used – will need to also link historical data?

# 13 – Laminated Safety Glass – Update

WHAT  
NEXT



Certification Period	Plants
Last Half 2023 (L23) & First Half 2024 (F24)	SGCC will contact you to conduct a review of your current laminated certification. Options to consolidate your certification numbers will be given.
Last Half 2024 (L24)	Mandatory to send thinnest and thickest constructions per updated <i>SD-210 Guidance for the SGCC Certification of Laminated Glass</i> .
First Half 2025 (F25)	Ongoing submission of required initial constructions. Fabricators must have completed testing of required constructions to maintain Laminated Certification (By June 30, 2025).
Last Half 2025 (L25) July 1, 2025	Laminated Labeling update Mandatory

# 13 – Laminated Safety Glass



Motion to allow existing certified laminated product report to be utilized for reconfiguration under the new laminated certification guidelines regardless of age of the report provided that all necessary information is reported.

Motion  
1<sup>st</sup>: June Willcott  
2<sup>nd</sup>: Michelle Phan  
Vote: UA Pass

Motion to approve implementation of laminated glass certification as outlined with the *Guidance for the SGCC Certification of Laminated Glass\_2023-03-23 Rev. May 2023*.

Motion  
1<sup>st</sup>: Rick Wright  
2<sup>nd</sup>: Michelle Phan  
Vote: UA Pass

# 13 – Laminated Safety Glass



- 30% of Certified Lami Products use (ip)
- Weathering data on file  $\geq .035\text{in}$  (.089mm)
- 1 Supplier of ip



## Ip-Ionoplast Interlayer Availability

SGCC continues to reach out to Supplier for updates and will work with fabricators still experiencing issues.

- Short Term – Grant Extension
- Long Term – Test using  $\geq .035\text{in}$  (.089mm)

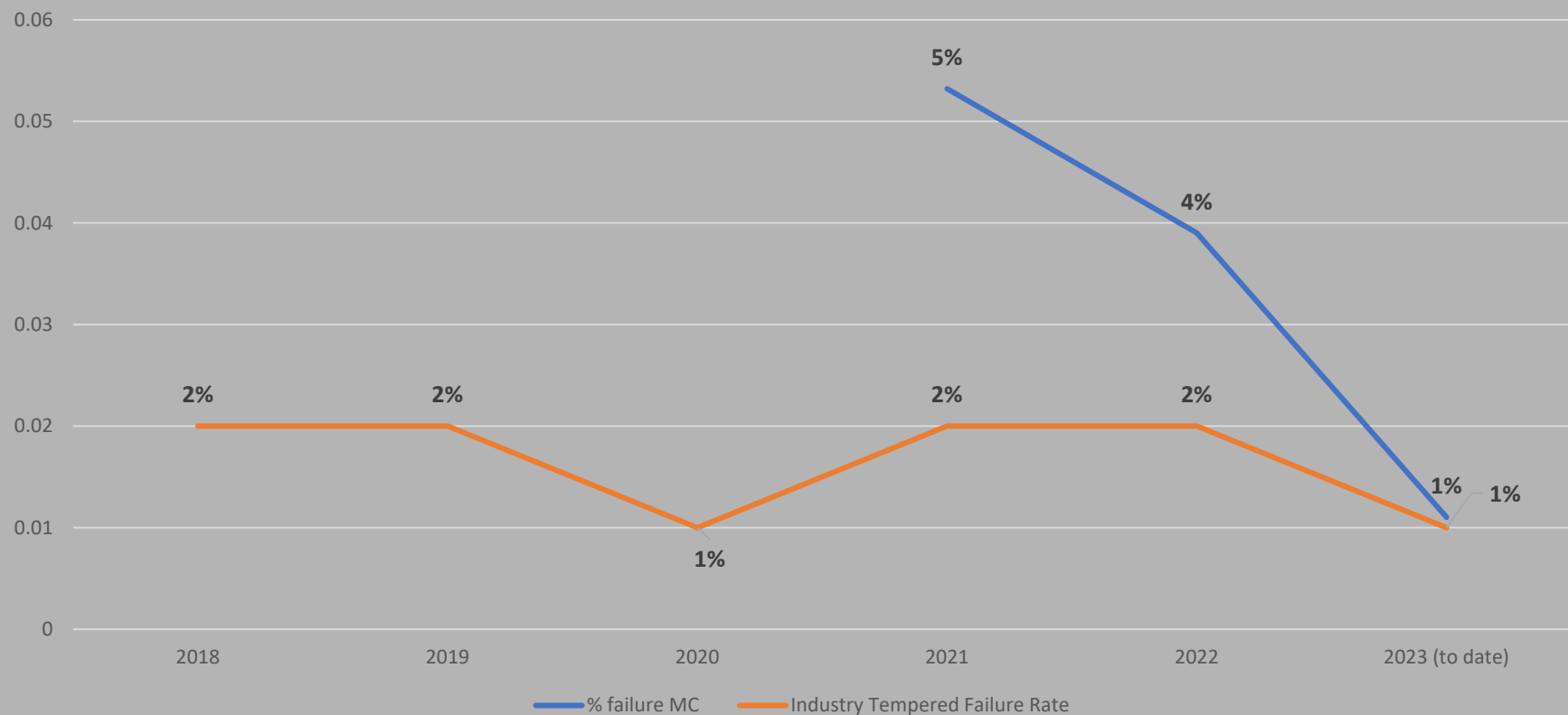
# 14 – Coated Glass



## CERTIFICATION OF TEMPERED COATED GLASS (Added 9/29/2021)

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.

% Failure Rate (Coated vs. All Tempered Failures)



	2021	2022*	2023 (to date)
MC Total Tested	451	889	356
MC Failure	24	35	4

\*Mandatory July 1, 2022

*2 Full Years of Data, is this sufficient?*

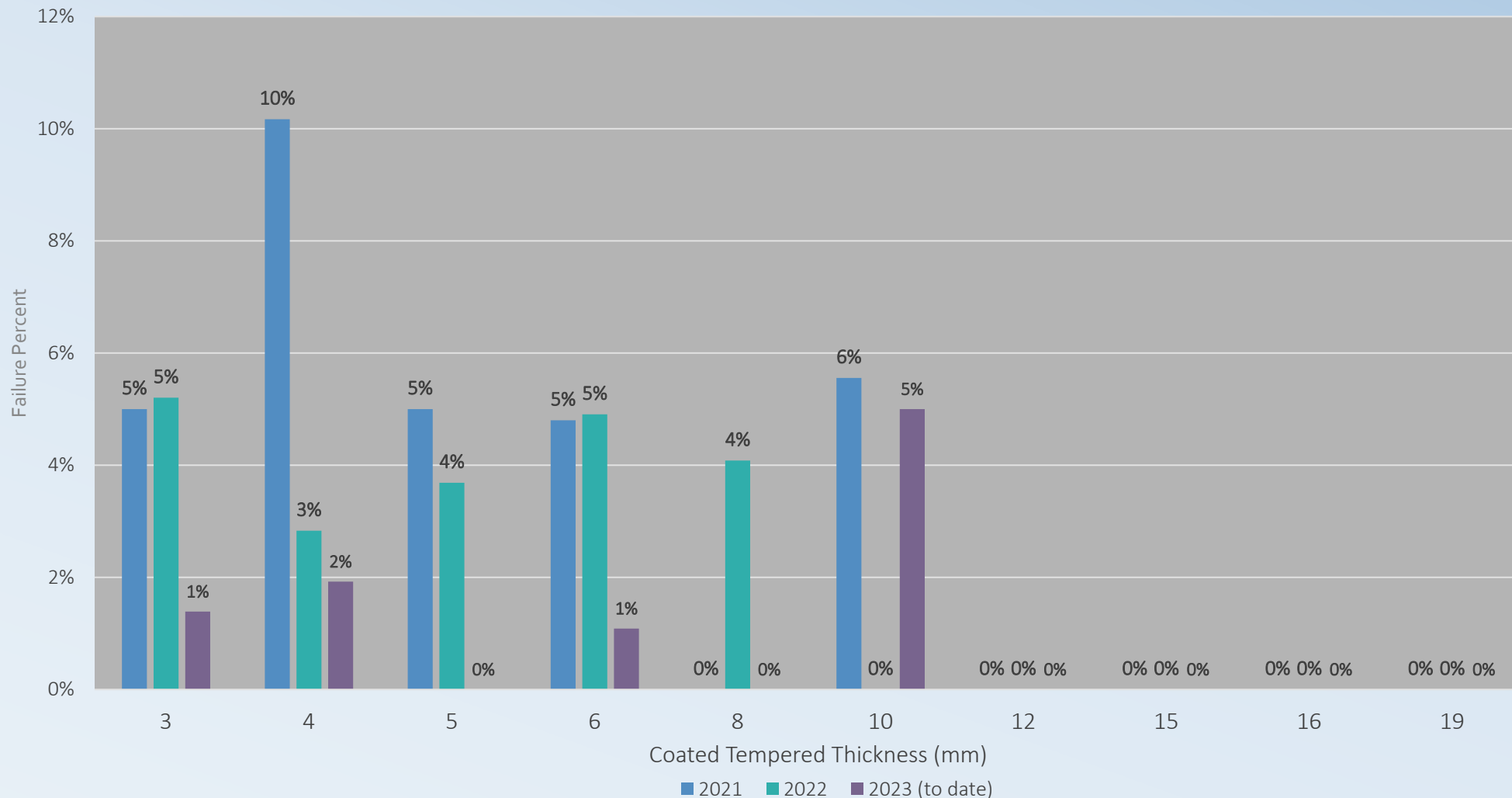
*What direction does SGCC want to go with MC Certification...*

- *Further definition of Coated Glass?*
- *Change of requirements?*
- *Additional data collection?*

# 14 – Coated Glass



MC Coated Glass Failures by Thickness - Tempered



Thickness mm	3	
	Failures	Tested
2023 (to date)	1	72
2022	9	173
2021	5	100

Thickness mm	4	
	Failures	Tested
2023 (to date)	1	52
2022	3	106
2021	6	59

Thickness mm	5	
	Failures	Tested
2023 (to date)	0	82
2022	8	217
2021	6	120

Thickness mm	6	
	Failures	Tested
2023 (to date)	1	92
2022	13	265
2021	6	125

Thickness mm	8	
	Failures	Tested
2023 (to date)	0	28
2022	2	49
2021	0	18

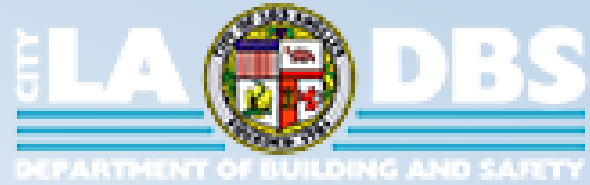
Thickness mm	10	
	Failures	Tested
2023 (to date)	1	20
2022	0	49
2021	1	18

Thickness mm	12	
	Failures	Tested
2023 (to date)	0	8
2022	0	23
2021	0	7

Thickness mm	15	
	Failures	Tested
2023 (to date)	0	2
2022	0	5
2021	0	2

Thickness mm	16	
	Failures	Tested
2023 (to date)	0	0
2022	0	1
2021	0	1

Thickness mm	19	
	Failures	Tested
2023 (to date)	0	0
2022	0	1
2021	0	1



## SGCC holds Certification for City of LA as an “Approved Testing Agency”

- Allows SGCC Licensee to sell their Safety Products within the City of LA
- Generally not enforced, but should it be, SGCC can provide necessary documentation.

### Meeting held Aug. 16, 2023

- Deliberation on City of LA maintaining this list
- May rely on third-party (ANAB Accredited)
- Another meeting TBD, SGCC is attending to monitor developments.



# 16 – VIG



## VACUUM INSULATING GLASS (VIG)

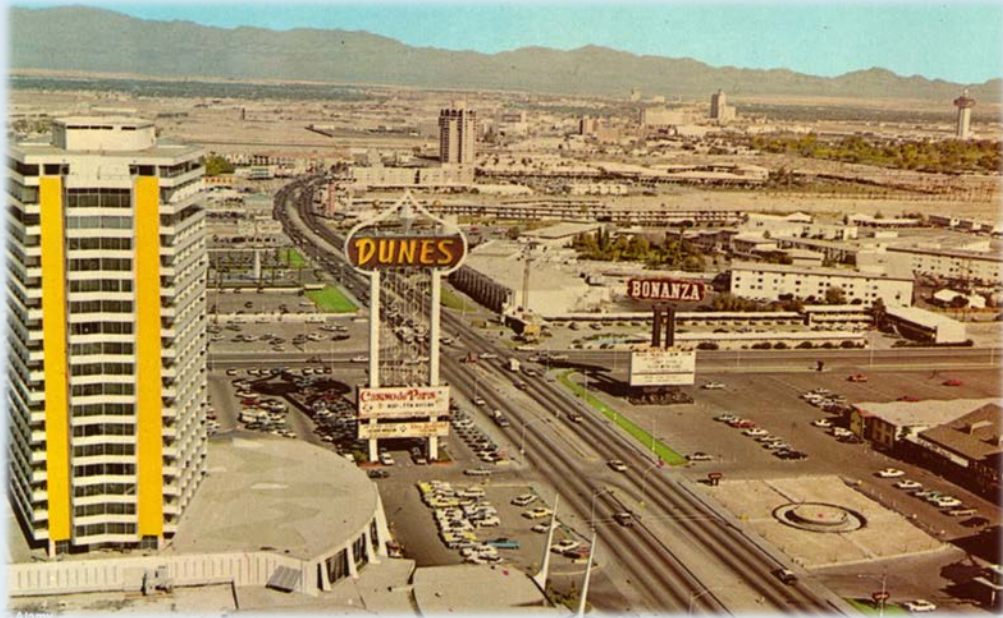
See 2017.10.31 “VIG ANSI Interpretation and Information” memo on [www.sgcc.org](http://www.sgcc.org) (<https://www.sgcc.org/memos>) or contact the SGCC office. VIG Tempered and Laminated are certified to the following types: VIG Tempered (VIGT), VIG Laminated (VIGL) or VIG Tempered Laminated (VITL) are each tested and certified separately. One will not certify the other.

Is VIG the Next “Big Thing”???



- Passing test results in accordance with ANSI Z97.1-2015 and TI’s (TI 2016.0624.001 VIG and TI 2017.0223.001)
- Currently we do not require low-e on test samples, does this need to change?
- VIG Tempered (VIGT), VIG Laminated (VIGL) or VIG Tempered Laminated (VITL) are each tested and certified separately. One will not certify the other.
- VIG must be tested in a “final product”

# 17 – Old/New Business



# 18 – Next Meeting (2024)




Clayton, NY  
1000 Islands Harbor Hotel

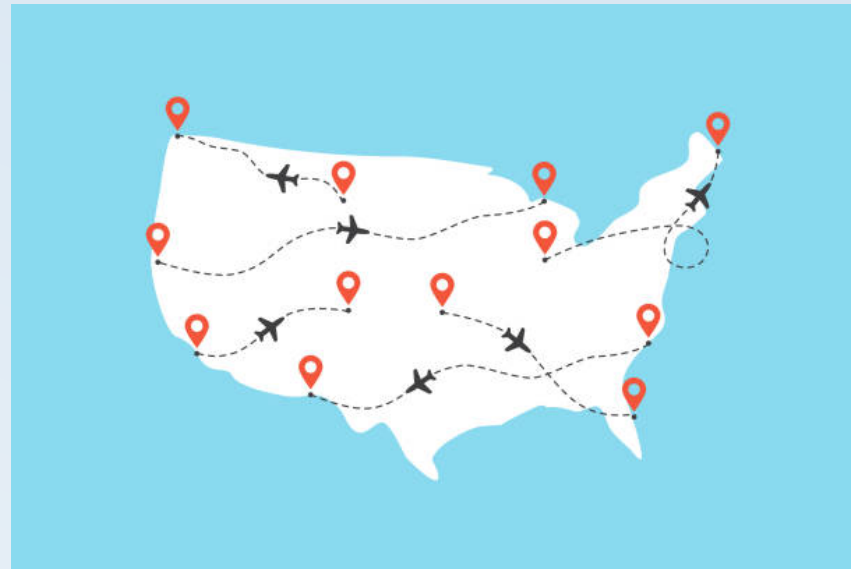
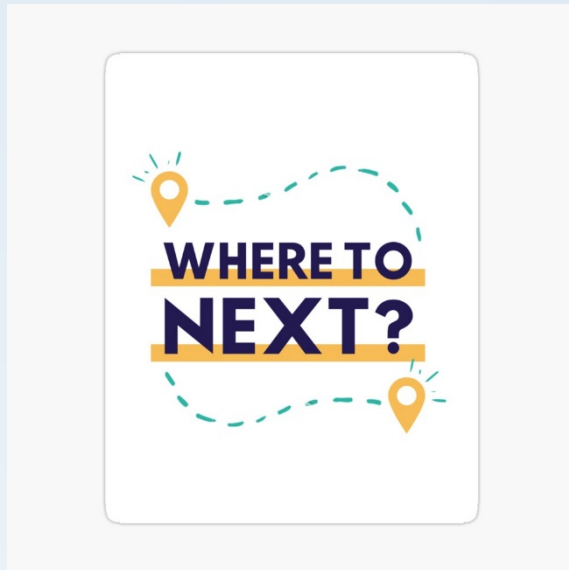
August 19-21, 2024

August							2024
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
				1	2	3	
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	



# 18- Next Meeting (2025)

	City		Vote
1.	Fort Worth, TX		V1: 6
2.	Philadelphia		V1: 4
3.	New Orleans		V1: 2



[Link to Industry Calendar](#)



THANK YOU  
*for your participation*



[www.SGCC.org](http://www.SGCC.org)



[SGCC@amscert.com](mailto:SGCC@amscert.com)



315.646.2234

What Matters to You, Matters to Us –  
We want to hear your Feedback.