

NGA GLASS CONFERENCE™ MILWAUKEE

AUGUST 6-8, 2024

NGA

NATIONAL GLASS ASSOCIATION with GANA



Certification Program Update



Administered By:

AMS, Inc.

205 West Main St., P.O. Box 730
Sackets Harbor, New York 13685

E-mail: staff@amscert.com

Phone: (315) 646-2234

Website: www.amscert.com



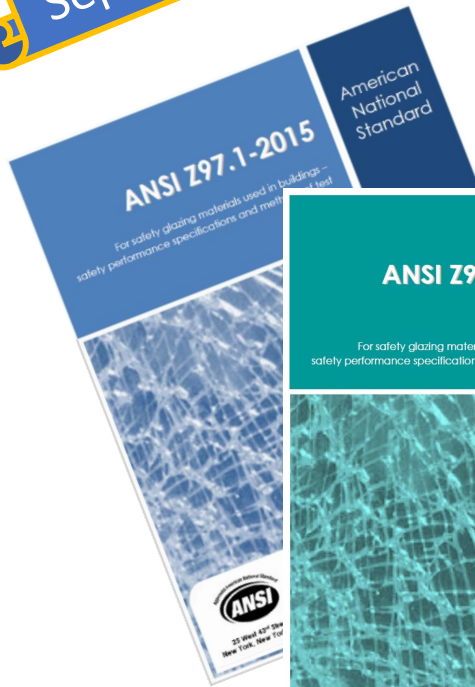
August 2024

ANSI Z97.1
Published
September 2015
Reaffirmed
September 2020



CPS 16 CFR 1201

CAN/CGSB – 12.1-
2022
Published
February 2022



ANSI Z97.1-2015 (R2020)
For safety glazing materials used in buildings – safety performance specifications and methods of test

American National Standard

Thank You!
ASC 297
Complimentary member copy

Glazing Industry Secretariat Committee
1945 Old Colquhoun Road, Suite 700,
Vienna, VA 22180

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.



Safety Glazing Materials Used in Buildings

CAN CGSB – Committee on Glass

- Marg Webb (FGIA retired) remains Chair
- Committee working on:
 - CAN/CGSB 12.1 - Safety Glazing (in process) – working to maintain harmonization with Z97.1
 - Proposed Draft version to go out for “60-day Public Review” in August/Sept 2024
 - CAN/CGSB 12.8 - Insulating (Summer ‘24 standard will be circulated for Glass committee review, with a goal for early Fall ‘24 compiled comments distributed to appropriate task groups)
 - CAN/CGSB 12.20 - Structural Design of Glass in Buildings (in process)
- All standards must be published Spring 2026.

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).

16 CFR 1201.1(a)(6) (enhanced display)

page 1 of 13

§ 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)

(Lindsey Merryman, Kayla Natividad, Ilona Schmidt)

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

OFFICERS

Chair – Kent

Vice Chair – **Open**

Secretary* – Julia Schimmelpenningh

- *Appointed by secretariat
- Subject to approval by majority vote of CB (Chair & Vice-Chair)

STEERING COMMITTEE

(Rick Wright, Urmilla Sowell, John Kent, Julia Schimmelpenningh)

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

CONSENSUS BODY

(The Committee – 30 Members)

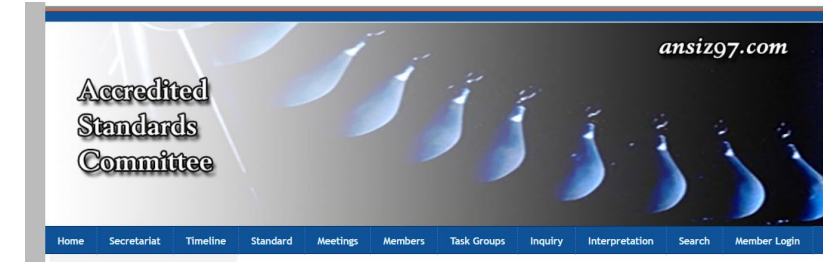
- ❖ Voting on the standard
- ❖ Maintaining the standard
- ❖ Adopting policies
- ❖ Other matters

ASC Z97 Committee Update

ANSI Z97.1-2015 (R2020)

- **June 6th, 2024 - Full Committee**

- A. Request volunteers for vice chair (looking to fill following audit)
- B. Plan forward –
 1. Task Group activities have begun
 2. Review DRAFT full standard at next meeting to determine reaffirmation or moderate revise
 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. Durometer and geometry determination of head form progressing
 3. ASTM reference vs language in std. (Urmilla Sowell – NGA)
 1. Partial initiation prior to drafting – unable to complete until final version is determined
 4. Misc. Issues (Scott Norville – GI)
 1. Calculations and conversions reviewed and submitted



- **Committee is out of balance– looking for a non-fabricator member for balance**

Actively soliciting non “Fabricator/Distributor” members

Next Committee Call – September 26, 2024

Contact Us – www.sgcc.org or email SGCC@amscert.com

Certification Testing Standards - ANSI Z97.1-2015(R2020), CPSC 16 CFR 1201, *CAN/CGSB 12.1-2022

- **Next Meeting** – SGCC® 2024 Annual Certification Committee Meeting **August 19-21 in Clayton, New York**
 - Jon Griggs with Guardian has been appointed Certification Committee Vice Chairman
 - If interested in joining the SGCC Board of Directors, the application is available on our website- <https://www.sgcc.org/contact-us>
- **Administrative Activity** –
 - **Audits** – L24 (Last Half of 2024) Issued July '24, audits continue to be completed both 30% Virtually (Remote) and In person 70% (Physical)
 - **Anonymous Testing Results & Failure Rates (Industrywide)** – To be made viewable, in real time, via CIP (Certification Information Portal)
 - **Coated Glass** – Continue to collect and report testing results
 - **New Laminated Glass Certification Changes** – Live as of July 1, 2024
 - **Certified Products Directory** – Issued in July '24, electronic only

IGCC®/IGMA® Certification Activities

Contact Us – www.igcc.org or email IGCC@amscert.com

Certification Testing Standards – ASTM E2190 – 2019

- **Next Meeting** – IGCC® 2025 Spring Certification Committee Meeting May 5-7, 2025 location TBD
- **IGCC/IGMA and IGMAC** – Normalized Procedural Guide sent to Committees for comment.
- **Administrative Activity** –
 - **Advanced Testing (RAC) Subcommittee** – IGCC Approved Expanding RAC fabrication through Licensing
 - **Guidelines & Equivalency Subcommittee** –
 - Focus on “Clarify, Simplify, Revamp” of Procedural Guide
 - Continue to finalize testing/certification of Multi-Cavity units
 - Reevaluate guidelines related to allowable IGU component changes (i.e. bonding surface)
- **Subcommittee Activity** –
 - **Advanced Testing (RAC) Subcommittee** – Continue to Collect Correlation Data
 - **Guidelines & Equivalency Subcommittee** – Multiple Airspace Units (Triples IGUs)
 - **Laboratory Subcommittee** – Gas Content Measurement (ASTM), Testing Capacity, Lab Manual Updates (Thermal Breakage, Retention of Units)



Rapid Assessment Chamber Update

August 2024

THE GOAL OF RAC

Test IG units to determine if defects are present (workmanship, materials, design, other) in 14 Days or less.

ASTM Draft Standard – for RAC

- Document currently being used by the labs to test with the RAC
- Initially Proposed to ASTM 4/18/2023
- Work Item #86079 Assigned
- Second Round of Balloting Closed 3/11/2024
- Discussion at April 24' ASTM Conference determined:
 - Maximum Tolerance for UV Output
 - Further Descriptive Language of RAC Apparatus
 - Removal of Patent Reference
- Test Method has been revised and submitted to ASTM for 3rd Subcommittee Ballot.

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INTERNATIONAL Designation: TBD

Date: Draft 2, 2023-05-18
 To: Subcommittee E06.22
 Tech Contact: Matt Waldren – (waldrenmc@pella.com)
 Work Item #: WK 86079
 Ballot Action: New Standard, Test Method for Insulating Glass Unit Performance Using the Rapid Assessment Chamber (RAC)

Rationale: This standard is a new proposed test method developed in consideration of ASTM E2188, Standard Test Method for Insulating Glass Unit Performance. The new standard is intended to provide for a quicker evaluation of insulating glass unit performance.

Test Method for Insulating Glass Unit Performance Using the Rapid Assessment Chamber (RAC)¹

This is a working document and ~~standard~~ has not been published.

1. Scope

1.1 This test method covers procedures for testing the performance of preassembled permanently sealed insulating glass units.

1.2 This test method is applicable only to insulating glass units that are constructed with glass.

1.3 This test method is applicable to both double-glazed and triple-glazed (inner lite of glass or plastic) insulating glass units.

1.4 The unit construction used in this test method contains dimensions that are an essential component of the test. Different types of glass, different glass thicknesses, and different cavity sizes may affect the test results.

1.5 This test method is not applicable to insulating glass units containing a spandrel glass coating due to testing limitations.

1.6 The values stated in SI units are to be regarded as standard. The values given in parentheses are for information only.

1.7 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:²

C162 Terminology of Glass and Glass Products

C717 Terminology of Building Seals and Sealants

C1036 Specification for Flat Glass

E631 Terminology of Building Constructions

E546 Test Method for Frost/Dew Point of Sealed Insulating Glass Units

E2188 Standard Test Method for Insulating Glass Unit Performance

E2189 Standard Test Method for Testing Resistance to Fogging in Insulating Glass Units

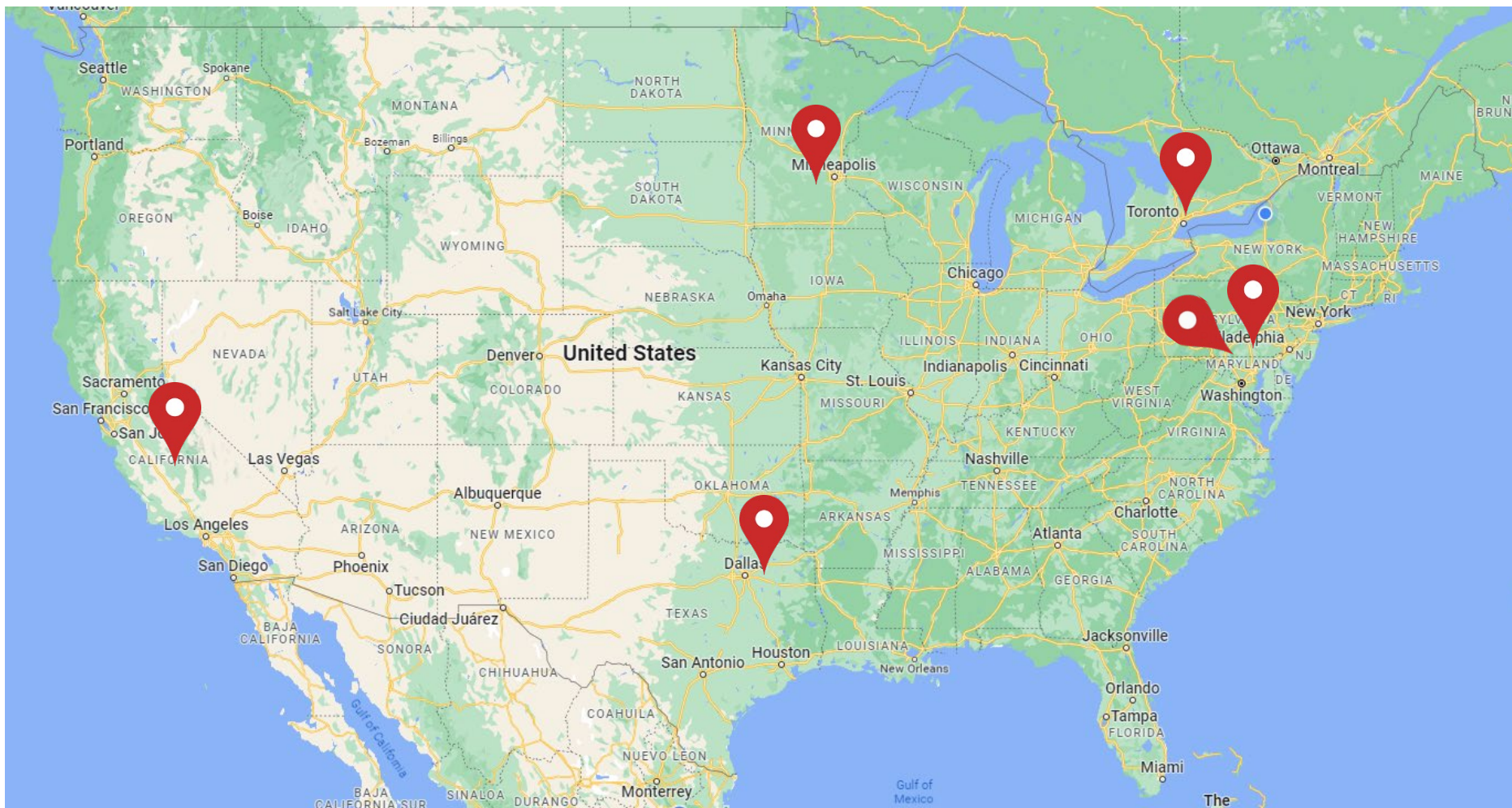
E2190 Specification for Insulating Glass Unit Performance and Evaluation

E2649 Standard Test Method for Determining Argon Concentration in Sealed Insulating Glass Units Using Spark Emission Spectroscopy

¹ This new test method is under the jurisdiction of ASTM Committee E06 on Performance of Buildings and is the direct responsibility of Subcommittee E06.22 on Durability Performance of Building Constructions.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

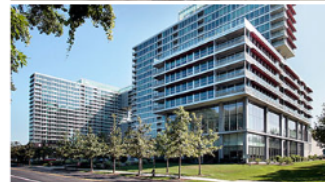
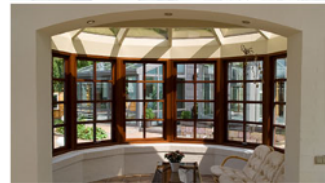
Installation Map: IGCC/IGMA Approved Laboratories



- Molimo York, PA
- Intertek York, PA
- Intertek Plano, TX
- Intertek Fridley, MN
- Intertek Fresno, CA
- CAN-BEST
Brampton, ON

- 11 Chambers Delivered In 2023
- Anticipate 10 additional chambers delivered and operational by end of 2024

If you have interest in purchasing / receiving an RAC contact: **Mitch Majewski (mmajewski@amscert.com)**



Founded in 1977

Independent and impartial administration of accelerated laboratory testing and plant inspections to assure continuing quality product performance.

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Provisional Certification with the Rapid Assessment Chamber (RAC)

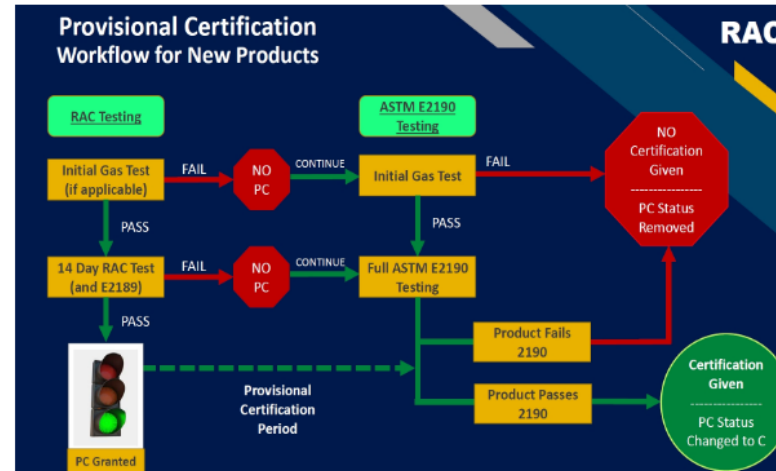
Steps to Certification

Certified Product Search

Join Our Mailing List

The goal of RAC

Test IG Units to determine if defects are present (workmanship, design, materials, other) in 14 days or less.



Reference Material

[2023.01.25 IGCC Rapid Assessment Chamber \(RAC\) and Provisional Certification \(PC\) Memo](#)

[ID-303 Provisional Certification - CN IG1010](#)

[ID-287 FAQ: IGCC Rapid Assessment Chamber \(RAC\) and Provisional Certification \(PC\)](#)

To purchase a RAC please contact IGCC@amscert.com

<https://igcc.org/provisional-certification.aspx>

Correlation Testing Results By Set

IGCC's Provisional Certification			
RAC Testing By Set		2190 Testing By Set	
# Fabricated	47 Sets	# Fabricated	47 Sets
Completed Both RAC & 2190 Testing: 19 Sets*			
Passed Both RAC & 2190	10	17/18 Sets	
Failed Both RAC and 2190	7		
Passed RAC but failed 2190	1	1/18 Sets	
Failed RAC but Passed 2190	0		
			94% Correlation

*1 Test Set was Atypical and not counted

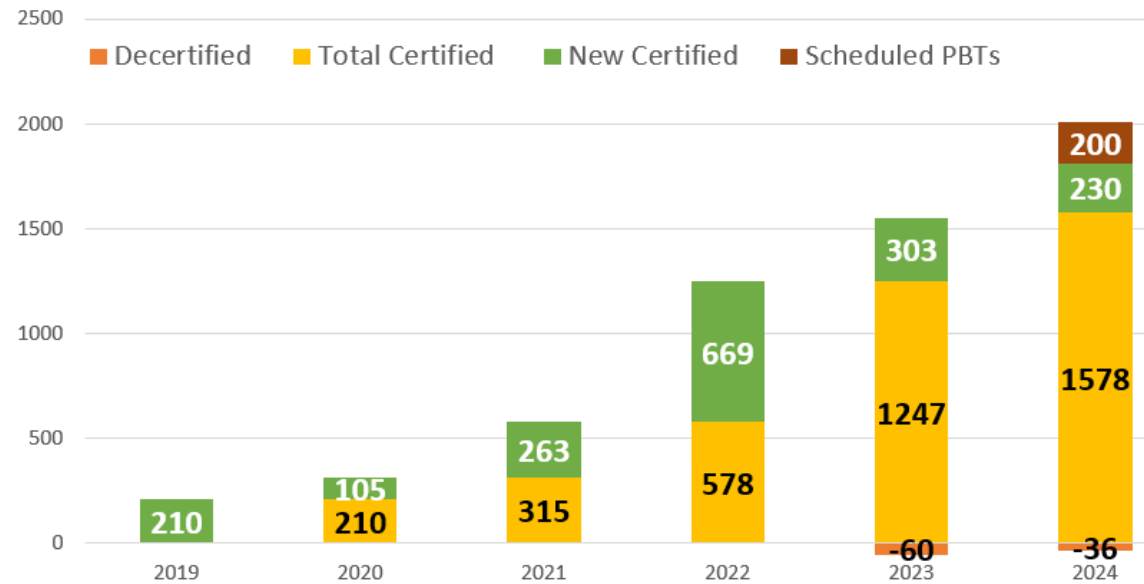
**These numbers are based on data that is in the early stages of collection, all information provided is preliminary, and no final determination of correlation can be made at this time.



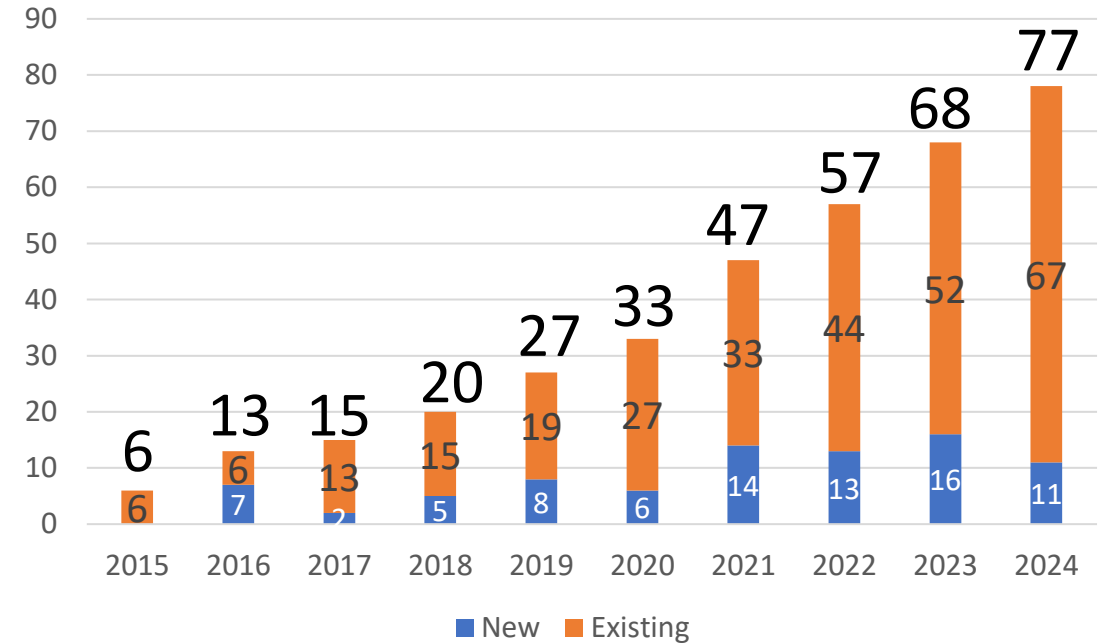
Architectural Glass
& Metal Technician
CERTIFICATION PROGRAM



Certified or Scheduled for PBT



NACC Certified Glazing Contractors



- Continued steady growth (1767 currently certified)
- Recertification of 2020 Certified Glaziers in 2024
- **Live TESTING** at **Glassbuild** in September!
- **11 New** NACC Certified Contractors YTD
- **77 Total** NACC Certified Contractors
- **1231+ projects** with NACC in specifications YTD 2024 according to Dodge Construction Analytics