

AMECA Automotive Safety Glazing Certification Process



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Automotive Safety Glazing Certification Process



<i>Automotive Manufacturers Equipment Compliance Agency, Inc.</i> 250 Englar Rd., Suite 1 Westminster, MD 20057 Tel. No. +202-898-0145 Fax No. +202-898.0148 E-Mail: info@ameca.org	Prepared by	Sign.	KMW
		Name	Kevin Wolford
		Designation	Executive Director
Copy status CONTROLLED / <u>UNCONTROLLED</u>	Approved by	Sign.	<i>Troy Walker</i>
		Name	Troy Walker
		Designation	Technical Director
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Introduction

The Automotive Manufacturers Equipment Compliance Agency, Inc. (AMECA) is an independent 3rd party safety registration organization. AMECA was incorporated in late 1994 to continue providing the same Safety Equipment Services to the states that the American Association of Motor Vehicle Administrators, (AAMVA) had provided since 1967. As with AAMVA, AMECA has individual signed agreements with various states for providing equipment compliance services as their Agent. AMECA is the only organization with agreements to provide listing of state regulated safety products in the United States.

The ISO Program will be in addition to state regulations. States do not require ISO-certification.

AMECA Equipment Certification Program is a centralized one-stop program that notifies government, industry and the general public about items of motor vehicle safety equipment that have been tested by an AMECA-accredited laboratory and Certified to applicable United States standards.

We serve the national and international automotive industry, the standards-setting community, numerous state governments, as well as some foreign governments. We protect the motoring public from substandard and untraceable parts. We provide support to the police officer in identifying non-compliant, illegal and unsafe equipment.

AMECA operates a comprehensive management system and a detailed Quality Policy to ensure a high standard of service and safety of personnel at all times.

All items submitted through the AMECA program must be properly marked and identified. Each item is completely traceable to the manufacturer, to the testing laboratory and the test data by AMECA.

Items in AMECA's ISO-Certification Program will be freely available by request or at the AMECA website.

AMECA maintains close and regular communication with its accredited laboratories and conducts periodic physical audits of the laboratory as well as providing them with current standards and regulatory information.

Many state laws regulating automotive safety equipment were promulgated by the Vehicle Equipment Safety Commission (VESC) of the Vehicle Equipment Safety interstate compact. VESC regulations continue to be used by the states. AMECA has all signed agreements pertaining to operation of the VESC. AMECA is the custodian of the VESC files. A complete list of VESC regulations is available at VESC.org.

Automotive Manufacturers Equipment Compliance Agency, Inc. History and Track Record.

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The Equipment Compliance Program currently conducted by AMECA has its roots in state safety regulations, with some records and data going back to the 1950's. AMECA keeps extensive historical records, including all test data regarding the Equipment Compliance Program. AMECA has never undergone any legal actions regarding its Equipment Compliance activities.

AMECA staff members voluntarily participate on various consensus standards committees such as Society of Automotive Engineers (SAE) committees on lighting, brakes, emergency lighting and sirens, and the American National Standards Institute, (ANSI) Z26.1 committee on glazing materials.

AMECA provides certification services based on OEM, United States FMVSS standards, SAE Standards and VESC Standards.

AMECA and its personnel are not engaged in any activities that may conflict with their independence of judgment and integrity in relation to their certification services.

AMECA is solely engaged in the audit and certification of products and its legal identity is limited to certification of products only and not a consultancy or any other services, which may create any conflict of interest.

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The Certification Process

1. Manufacturer Factory Approval

Prior to ANY parts being approved AMECA will conduct a thorough on site review of the manufacturers quality system, access to OEM/SAE and FMVSS standards, inventory tracking, quality verification and geometric dimensioning and tolerancing capabilities.

Each factory, each part, stands on its own.

Items must be tested prior to inclusion to the AMECA Program.

2. Manufacturer Part Approval

All safety glazing must meet FMVSS 205/205A. However, there may be additional tests required by the vehicle type and glazing application. Different vehicles may have very different design and service requirements. This scheme will attempt to provide as much information as possible on the testing requirements. During application process, the manufacturer and AMECA must agree on a set of standards to which a product will be tested to.

3. Part Certification/Vehicle Fit

After the factory is approved, the manufacturer may submit individual parts for certification from that factory only.

Each part is tested to relevant OEM, SAE and or FMVSS standards. In addition, products are tested for fit, finish, electrical compatibility and material selection. Products must be marked to FMVSS/SAE standards including country and date of manufacture. If all tests are passed a company may apply the AMECA Certification Sticker.



To be included in the AMECA Registry of Certified products all products must:

- Must use the AMECA Certification Sticker
- Be barcoded and with individual serial numbers
- Part Numbers/Serial numbers must be sent to AMECA
- Use at least 3 OE samples for the initial part design

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4. Maintaining Quality

After factory and part approval is completed, each part is checked by a market audit by purchasing the part from a retailer. Any damage to the product from shipping and handling is noted. Factories are also regularly audited by AMECA.

AMECA has an open compliant process where anyone can file a complaint if they believe the part does not meet standards—including cosmetic requirements.

AMECA random market audit and complaint program can lead to the delisting of parts. The delisted parts will also be available on the AMECA website. AMECA has an appeal process for manufacturers to ensure that the process is conducted impartially.

5. Warranty

AMECA does not warrant parts. Parts warranty's are between the buyer and seller and can vary by state and jurisdictions involved.

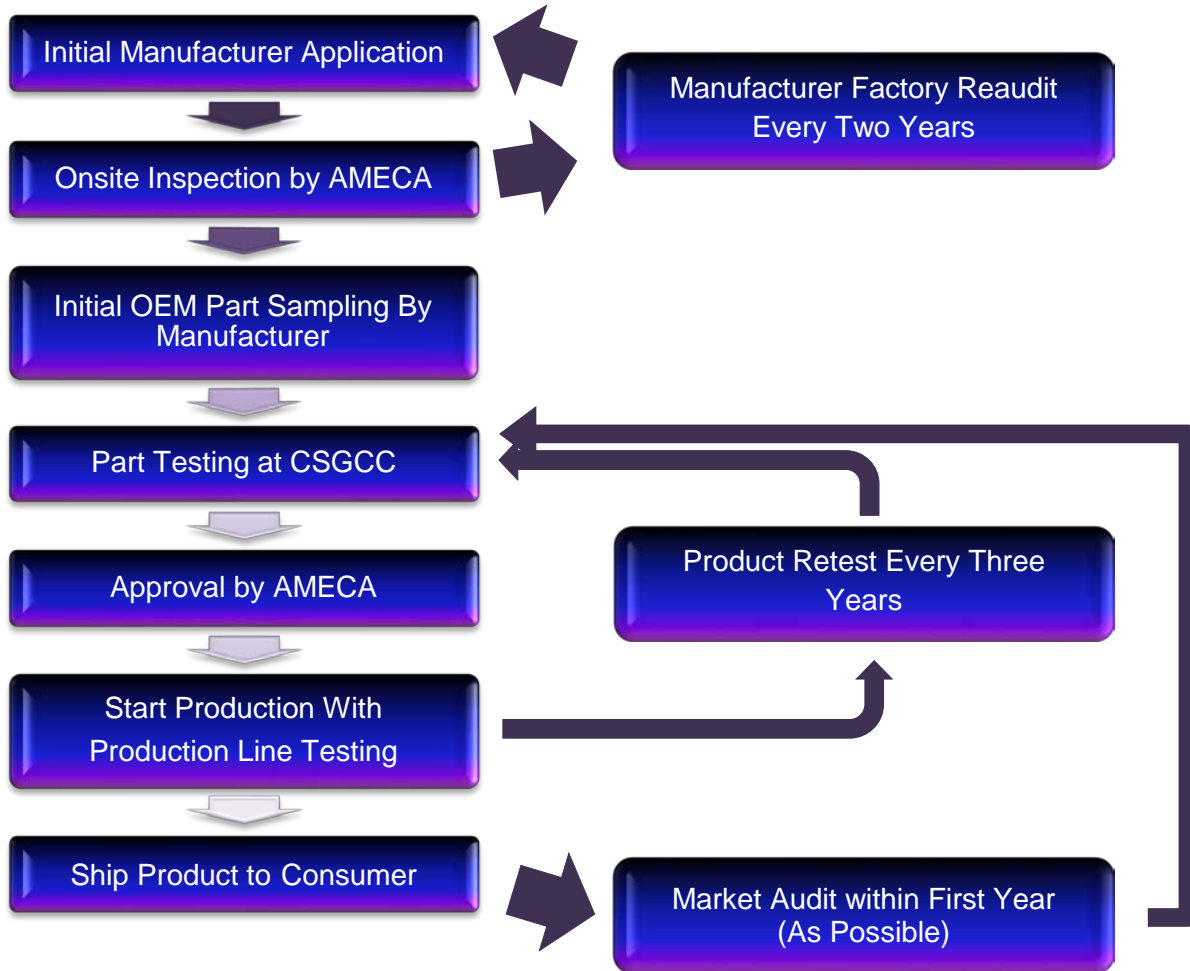
AMECA manufacturers are responsible for ensuring that the product to displaying the AMECA Certified Logo conforms to the necessary standards. AMECA is certifying to that parts meet standards.

6. Program Cost

Manufacturers are charged \$2500, plus expenses, for each facility inspection fee. Each individual product costs \$350 for each certification. Testing fee's are separate.

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Program Flow Chart



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Certification Program Details

1. This document is the ISO-17067 Certification Scheme for materials to comply with the ISO-17065 certification process. This program is intended for replacement exterior automotive safety glazing products.
 - 1.1. AMECA will be operating a Type 4 Certification Scheme. AMECA Personnel will periodically conduct an onsite inspection each manufacturer that they have updated documents, procedures, access to OEM information and material specifications as necessary.

Each manufacturing location will stand on its own.

 - 1.1.1. Manufacturers will provide the following information for the first facility which will be manufacturing parts.
 - 1.1.2. Copy of ISO-9001/IATF-16949 (ISO/TS 16949) Certificate issued by a Management System Certification Body accredited to ISO/IEC 17021-1 by an IAF-MLA Signatory Accreditation Body.
 - a. AMECA will NOT be conducting an ISO-9001/IATF-16949 (ISO/TS 16949) audit. Merely that the audit in place is adequate.
 - 1.1.3. AMECA Glazing Manufacturer form
 - 1.1.4. List of standards available to company. For SAE Standards having access to current year SAE Handbook is sufficient.
 - 1.1.5. Manufacturers will provide the following information for all products requesting certification.
 - 1.1.6. AMECA Application Form, F-22
 - 1.1.7. Testing According to SAE Original dimensional drawings and final measured results
 - 1.1.8. Tests to FMVSS/SAE/OEM as applicable
 - 1.1.9. Knowledge of SAE J1739 Potential Failure Mode and Effects Analysis in Design (Design FMEA), Potential Failure Mode and Effects Analysis in Manufacturing and Assembly Processes (Process FMEA) or equivalent
 - 1.2. Certified products may use the "AMECA Certified" Logo on their products or packaging as per F28 AMECA Certification and Licensing Agreement . See Appendix A
 - 1.3. Our scope will be replacement automotive safety glazing products. (17067 S6.5.1a)

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2. Normative References/Standards (17067 S6.5.1 b)

Manufacturers will be responsible to ensure that all relevant standards are met for their products to ensure a safe and reliable product. In many instances, OEM references may go far beyond what is required by either FMVSS or SAE.

If there is a conflict between an FMVSS standard and a SAE Standard, FMVSS always prevails.

Not every item will use every standard. However, AMECA will ONLY be certifying glazing to FMVSS 205 or 205a. Manufacturers are required to have access to SAE and OEM specifications as necessary.

Laboratories are required to maintain ISO-17025 certification for any tests performed.

Below are some of the standards which a manufacturer may need. This is not a complete list but a list of some of the standards which may be required.

FMVSS 205

FMVSS 205a

ANSI Z26.1 1996

Correctness to OEM Fit, Finish and Geometric Dimensioning and Tolerance standards

SAE J100 Class "A" Vehicle Glazing Shade Bands

SAE J216 Motor Vehicle Glazing--Electrical Circuits

SAE J381 Windshield Defrosting Systems Test Procedure and Performance Requirements--Trucks, Buses, and Multipurpose Vehicles

SAE J673 Automotive Safety Glazing Materials

SAE J902 Passenger Car Windshield Demisting and Defrosting Systems

SAE J903 Passenger Car Windshield Wiper Systems

SAE J1100 Motor Vehicle Dimensions

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SAE J1555 Recommended Practice for Optimizing Automobile Damageability and Reparability

SAE J1648 Protective Coatings for Fasteners

SAE J1691 Plastic Motor Vehicle Safety Glazing--Tolerances and Fabrication

SAE J1739 Potential Failure Mode and Effects Analysis in Design (Design FMEA), Potential Failure Mode and Effects Analysis in Manufacturing and Assembly Processes (Process FMEA)

SAE J1796 Spectral Transmission Test

SAE J1944 Truck and Bus Multipurpose Vehicle Windshield Washer

SAE J2081 Test Procedure for Determining the Resistance of Safety-Glazing Materials, of Which One Surface is Plastic, to Simulated Weathering

SAE J2134 Luminous Reflectance in Safety Glazing Materials for Road Vehicles

SAE J2568 Intrusion Resistance of Safety Glazing Systems for Road Vehicles

SAE J2937 Linear Impact Procedure for Occupant Ejection Protection

SAE J3097 (In progress) Standard for Safety Glazing Materials for Glazing Motor Vehicles and Motor Vehicle Equipment Operating on Land Highways

USCAR 1-2 Salt Spray Testing and Evaluation of Fastener Finishes

3. Terms and Definitions

3.1. FMVSS: Federal Motor Vehicle Standard. FMVSS 205 is 49 CFR 571.205

3.2. CFR: Code of Federal Regulations

3.3. SAE: Society of Automotive Engineers

3.4. Scheme Owner: Automotive Manufacturers Equipment Compliance Agency Inc. (AMECA)

3.5. Scheme Type: 4

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3.6. **Glazing Certification:** The Term Glazing Certification shall mean safety glazing and fit and fitment testing Conducted by an AMECA Accredited laboratory according to FMVSS 205 and relevant SAE/OEM standards. Included certification shall include verification of item fit and finish per vehicle application.

3.7. **China Building Material Academy:** In this document China Building Material Academy shall mean China Safety Glass Certification Center; China Building Materials Academy Guanzhuang, Beijing, 100024 P.R. China.

3.8. **Sample:** Sample means representative production part to be tested. Products resampled for annual testing verification will be the same part number and must be visually identical to originally tested product.

4. **Object of Product Certification**

4.1. AMECA's certification program will give confidence to consumers that the products not only perform well but fit correctly.

5. **Product Certification Scheme (ISO 17067 S5, 17067 S6.5.1c)**

5.1. **Selection:** Products will be selected from initial production run prior to release. Once performance has been verified the product may be released.

5.2. **Surveillance:** AMECA surveillance policy is contained in QP09 S4.5.

5.3. **Decision on Certification:** All decisions on certification will come from AMECA. Manufacturers may appeal under AMECA's appeal process. As detailed in AMECA's Quality Manual Section 7.6 (S17067 S6.5.1m)

6. **Operation of AMECA Safety Glazing Product Certification Scheme (ISO-17067 S6)**

6.1. This section details how AMECA will operate the certification scheme

6.2. AMECA Will operate a product certification system. The system will include the current document.

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- 6.3.** Details on AMECA and the operation of the scheme
- 6.3.1.** AMECA is the scheme owner and the scheme was created for the sole use of AMECA's client companies
- 6.3.2.** The glazing product certification scheme will operate in AMECA's Product Certification System.
- 6.3.3.** AMECA is a Maryland company with an office in the District of Columbia.
- 6.3.4.** AMECA takes full responsibility of all certification decisions based on approved laboratory tests.
- 6.3.5.** Maintenance and guidance of the AMECA Product Certification Program are found in the AMECA Quality Control Manual.
- 6.3.6.** This scheme will operate under the procedures contained in this document and referenced sections of the AMECA Quality Control Manual.
- 6.3.7.** The scheme's documentation is contained in it's in this document and the AMECA Quality Control Manual to which it refers to.
- 6.3.8.** This document has been developed by engineers trained in both automotive testing, manufacturing and ISO certification processes.
- 6.3.9.** Confidentiality is covered by AMECA document PY-02 Confidentially Policy.
- 6.3.10.** AMECA will minimize risk by only accepting reports from known and AMECA Accredited laboratories and from manufacturers who have undergone an onsite audit by AMECA or A2LA.
- 6.3.11.** AMECA has significant liability insurance and financial reserves. We also have a succession plan.
- 6.3.12.** AMECA has been in operation for over 20 years. The ISO certification will not will not be an additional expense. We will only expand personnel after a well demonstrated need.
- 6.4.** **AMECA Product Certification Scheme Development**

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- 6.4.1.** AMECA's Product Certification Scheme was developed to promote automotive safety.
- 6.4.2.** AMECA makes the following assumptions: are that manufacturers want to make compliant products, that consumers care and that oversight is absolutely necessary. AMECA may be introduced to significant liability issues which will need to be carefully managed by signed agreements.
- 6.4.3.** AMECA has the support of testing laboratories.
- 6.4.4.** Scheme Principals
- a.** AMECA is the owner of this certification
 - b.** AMECA will make all final certification decisions based on test reports from AMECA accredited laboratories.
 - c.** The funding of the program will come from certification fee's and manufacturer/laboratory inspection fees
 - d.** Laboratories are reevaluated approximately every two years. Scheme is reviewed every year with reviewing of standards in the first quarter. Any standards changes may necessitate changes in the scheme.
- 6.4.5.** The scheme and select forms will be published on AMECA's website.
- 6.5. Scheme Content (17067 S6.5.1)**
- 6.5.1. General Information**
- a.** This scheme covers automotive safety glazing products
 - b.** Products are evaluated by 4 criteria See AMECA Quality Manual 7.2.1 for more information
 - 6.5.1.b.1.** Testing Performance to FMVSS, OEM or SAE Standards as applicable
 - 6.5.1.b.2.** Fit and Finish
 - 6.5.1.b.3.** Material Selection
 - 6.5.1.b.4.** Conformity to OEM specifications
 - 6.5.1.b.4.1.** Item dimensions must be within the range of the tested OEM devices

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- c. This is a Type 4 Certification system.
 - 6.5.1.c.1. Initial Product selection will be at the manufacturers discretion
 - 6.5.1.c.2. Determination of Characterizes for certification are defined in 6.5.1
 - 6.5.1.c.3. AMECA will review all data from the laboratories.
 - 6.5.1.c.4. AMECA will make the decision on certification
 - 6.5.1.c.5. AMECA will issue a certificate of conformity (see Appendix A)
 - 6.5.1.c.6. The usage and rights of manufacturers for the Certificate of Conformity is found in the AMECA Quality Manual Section on the
- d. Other Requirements
- e. AMECA only acts as a certification body.
- f. AMECA currently has no Mutual Recognition Agreements
- g. Methods and procedures are detailed in the AMECA Quality Manual and Procedures
- h. Information Supplied to AMECA by Manufacturer
 - 6.5.1.h.1. Manufacturers must have a complete set of standards and reference documents detailed in Section 2
 - 6.5.1.h.1.1. Manufactures must have the ability to conduct production line quality testing.
 - 6.5.1.h.2. Manufacturers must be certified to ISO-9001/IATF-16949 (ISO/TS 16949) certificate issued by a Management System Certification Body accredited to ISO/IEC 17021-1 by an IAF-MLA Signatory Accreditation Body.
 - 6.5.1.h.3. No design changes are permitted for release prior to review
 - 6.5.1.h.4. All Manufacturers will have an on-site review by AMECA or its representative prior to initial certification of any product. Re-audit is every two years.
- i. AMECA will issue a certificate of conformity which states the product and standard to which it was tested.

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- j. Conformity mark usage is contained in AMECA F28 AMECA Certification and Licensing Agreement.
 - k. AMECA Owns the mark associated with this certification plan.
 - l. Resource requirements are detailed in the AMECA Quality Manual and subreferenced policy, procedure and form documents
 - m. Results will be reported by email and publishing on the AMECA website. Manufacturers will receive certification document (Appendix A)
 - n. Non-conformities are handled according to AMECA QP10, Certificate Issue, Suspension and Withdrawal
 - o. Surveillance: AMECA's Surveillance policy is in AMECA QP10, Certificate Issue, Suspension and Withdrawal
 - p. The scheme, quality manual and Policy documents will be on the AMECA website.
 - q. All certified products will be updated to the ameca.org website
 - r. AMECA is both the Certification Body and Scheme Owner
 - s. Certification General Conditions are contained in document QP10 Certificate Issue, Suspension and Withdrawal
 - t. Complaints are verified using process in AMECA QP07, Complaints and Appeals
 - u. Clients may refer to the certification scheme as per form F28 AMECA Certification and Licensing Agreement
 - v. Records are held in accordance to AMECA QP02, Control of Records
- 6.5.2. Sampling:** If redesigning an OEM glazing a minimum of 3 OE windscreens must be used for the initial design.
- 6.5.3. Sample:** Sample means representative production part to be tested. Products resampled for annual testing verification will be the same part number and must be visually identical to originally tested product.

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- 6.5.4. Prior Testing:** Tests, up to the three year limit, performed by an AMECA Certified laboratory is acceptable for certification.
- 6.5.5. Outsourcing:** Test labs may outsource testing if witnessed by trained personnel. Testing laboratories are responsible for all testing and results done by outsourced facilities. Prior approval of outsourced test and facility is required by AMECA.
- 6.5.6. Complaints and Appeals** AMECA will follow QP07, Complaints and Appeals for handling those matters.
- 6.5.7. Licensing and Control of Use of “AMECA Certified” Logo:** AMECA’s licensing policy is in document F28 AMECA Certification and Licensing Agreement
- 6.5.8. Surveillance:** AMECA surveillance policy is contained in QP09 S4.5.
- 6.5.9. Non-Conforming Products:** Information about non-conforming products is contained AMECA Quality Manual Section 7.11
- 6.5.10. Reporting to Scheme Owner:** AMECA is the scheme owner. No external reporting is required
- 6.5.11. Subcontracting Operations:** AMECA Form F11 covers the subcontracting agreement for program evaluation
- 6.5.12. Marketing:** Companies are allowed to use the AMECA Certified Mark as per licensing agreement F28 AMECA Certification and Licensing Agreement
- 6.5.13. Fraudulent Claim of Certification.** Any use of the AMECA Certified Mark or AMECA logo by parties not under the agreement is a violation of U.S and foreign trademark laws. Parties will be first notified by email and certified letter of the infraction. Companies will be given 30 days to respond and/or remove all references to AMECA and the AMECA Certification process.
- AMECA will initiate legal action as appropriate to Companies who do not comply or respond to our request within the time period will. Further information is in F28 AMECA Certification and Licensing Agreement S39.
- 6.6. Maintenance and Improvement of the Scheme.**

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- 6.6.1. Review of Scheme Operation.** During AMECA’s impartiality meeting customer feedback will be summarized to the committee. AMECA will also openly solicit input from stake holders and industries regarding any potential expansion of certification activities. AMECA will also benchmark, as much as possible, existing certification systems in the same areas.
- 6.6.2. Changes to Specified Requirements.** AMECA monitors the daily federal register for any standards changes. AMECA is also on several SAE Committees for which we offer certification. Additionally, the first quarter of each year AMECA will check for updates as per Quality Manual 4.2.4.
- 6.6.3. Other Changes.** It is intended that the AMECA Certification scheme be a “Living Document” and will change over time as standards, needs and the market changes. Changes will only be done after agreement by AMECA management, test labs and proposed industry customers.
- 6.7. Scheme Documentation.** All necessary information for the AMECA Safety Glazing Certification Scheme is in this document and subreferenced AMECA quality documents.
- 6.8. Loss of Accreditation.** In the event that AMECA loses it’s accreditation as a Certification Body AMECA will inform all customers via email or regular mail within 7 days. Manufacturers must cease usage of AMECA logo within 30 days.
- 7. Subreferenced Documents**
- 7.1.** AMECA QP10, Certificate Issue, Suspension and Withdrawal
- 7.2.** AMECA QP09, surveillance policy is contained in QP09
- 7.3.** QP07, Complaints and Appeals
- 7.4.** AMECA QP02, Control of Records
- 7.5. AMECA F28 AMECA Certification and Licensing Agreement.**



*AUTOMOTIVE MANUFACTURERS EQUIPMENT
COMPLIANCE AGENCY, INC.*

AMECA CERTIFICATE OF EQUIPMENT COMPLIANCE

250 Englar Rd., #1 Westminster, MD 21157

TELEPHONE: (202) 898-0145 · FAX: (202) 898-0148 · WWW.AMECA.ORG

This Certificate verifies that the item described below has been tested by an accredited laboratory and has been found to be in compliance with the jurisdictional standard(s) listed below where applicable. The issuance of this AMECA Certificate of Equipment Compliance does not denote or imply any endorsement or recommendation of the item described below.

Certificate Number: 2xxxxxxx

Test Report Date: November 21, 2016

Certification Date: September 7, 2017

Expiration Date: January 1, 2020

*Applicant: Acme Engineering
123 Main Street
Warner, CA, 201708*

ITEM: "abc-123" - (Item Description)

Use: On (make, model and year as much as possible)

Jurisdictional Compliance Standard(S)

Identical To: United States FMVSS or SAE as applicable

Markings: (Identification markings)

Test Lab: (Lab which conducts testing.)

Report Number: (supplied by lab)

Executive Director

"AMECA"; "AMECA Edge Code" (for automotive brake friction material); and the AMECA Logo are trademarks registered with the US Patent & Trademark Office and with the US Department of Homeland Security - Customs and Border Patrol. These trademarks are solely owned by Automotive Manufacturers Equipment Compliance Agency, Inc. and may not be used without the express written permission of AMECA.

Appendix A

AMECA Certified Logo.

