

American National Standard

**AUTO GLASS
SAFETY COUNCIL™**

*Automotive Glass Replacement Safety
Standard™ (AGRSS)*

AGRSS

Automotive Glass Replacement Safety Standard™

ANSI/AGSC/AGRSS 004-2018



This is a preview of "ANSI/AGSC/AGRSS 004-...". [Click here to purchase the full version from the ANSI store.](#)

ANSI/AGSC/AGRSS

004-2018

Revision of

ANSI/AGSC/AGRSS 003-2015

American National Standard
Automotive Glass
Replacement Safety Standard™
(AGRSS)

Secretariat

Auto Glass Safety Council™

Approved August 23, 2018

American National Standards Institute, Inc.

American National Standard

Approval of an American National Standard requires review by ANSI that the requirements for due process, consensus, and other criteria for approval have been met by the standards developer.

Consensus is established when, in the judgement of the ANSI Board of Standards Review, substantial agreement has been reached by directly and materially affected interests. Substantial agreement means much more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that a concerted effort be made towards their resolution.

The use of American National Standards is completely voluntary; their existence does not in any respect preclude anyone, whether he has approved the standards or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standards.

The American National Standards Institute does not develop standards and will in no circumstances give an interpretation of any American National Standard. Moreover, no person shall have the right or authority to issue an interpretation of an American National Standard in the name of the American National Standards Institute. Requests for interpretations should be addressed to the secretariat or sponsor whose name appears on the title page of this standard.

CAUTION NOTICE: This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken periodically to reaffirm, revise, or withdraw this standard. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute

Published by

**Auto Glass Safety Council (AGSC)
20 PGA Drive, Suite 201, Stafford, VA 22554**

Copyright © 2018 by Auto Glass Safety Council (AGSC)
All rights reserved.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without prior written permission of the publisher.

Printed in the United States of America

Contents

	Page
Foreword	ii
Introduction	iv
1 Scope and Purpose	1
2 Normative References	1
3 Definitions and Acronyms	2
3.1 ADAS	2
3.2 Adhesive Bonding System	2
3.3 AGR	2
3.4 Anti-Pinch Mechanism	2
3.5 ARG	2
3.6 Butyl Sealant	2
3.7 Equivalent Retention System	2
3.8 Final Exam	3
3.9 Full Cut	3
3.10 Initialize	3
3.11 Minimum Drive-Away Strength	3
3.12 Minimum Drive-Away Time	3
3.13 OE	3
3.14 OEM	3
3.15 Polysulfide Adhesive	3
3.16 Polyurethane Adhesive	3
3.17 Primer	3
3.18 Private Labeler	3
3.19 Recalibration	3
3.20 Retention System	3
3.21 Those Engaged in Automotive Glass Replacement	4
4 Vehicle Assessment before Replacement	4
5 Selection of Glass and Retention Systems	4
6 Installation Standards – Adhesive Bonded	5
7 Installation Standards – Rubber Gasket	6
8 Additional Requirements	7
9 Education	9
Annex	
A Bibliography	10

Foreword (This foreword is not part of American National Standard ANSI/AGSC/AGRSS 004-2018.)

The Automotive Glass Replacement Safety Standard™ (AGRSS) was created and is continuously maintained by the Auto Glass Safety Council working under the auspices of the American National Standards Institute (ANSI). AGSC also serves as secretariat for the standard.

The AGRSS Standard represents the windshield replacement industry's best practices as compiled under ANSI guidelines by a balanced committee of windshield replacement practitioners, suppliers and other interested parties.

This standard contains an industry consensus of recommended terminology, definitions, processes, and procedures. These recommendations reflect the expertise of the AGSC AGRSS Standards Committee members who hold a combined experience of hundreds of years and many thousands of actual windshield replacements.

This standard contains one annex. Annex A is informative and is not considered part of this standard.

AGSC welcomes proposals for amendments to any portion of this Standard. These proposals should be in writing and sent to the address below and accompanied by a statement of the rationale for the proposal along with the proponent's complete contact information. All proposals will be referred to the AGSC AGRSS Standards Committee for consideration. Submit proposals to: AGSC/AGRSS Standards Committee, 20 PGA Drive, Suite 201, Stafford, VA 22554 or by email to info@agsc.org.

This standard was developed, processed and approved for submittal to ANSI by the AGRSS Standards Committee of the Auto Glass Safety Council. Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the AGRSS Standards Committee had the following members:

Bob Beranek, Chair, AGSC AGRSS Standards Committee
(Automotive Glass Consultants)

<i>Organization Representative</i>	<i>Name of Representative</i>
ABRA Auto Body & Glass	Mitch Becker
AGRR Magazine	Debra Levy
American AutoGlass Administrators.....	Steven Rossetti
Arrow Auto Glass	Charlie Turiello
Auto GlassMasters, LLC	Terry Dennis
Auto One Glass & Accessories	Ronald Overbeck
Beveridge Enterprises	Keith Beveridge
Binswanger Glass	John McGee
Bostik, Inc.	Steve Steinman
Burco, Inc.	Bill Castleberry
Carlex Glass, America.....	Rod Watson
Century Glass.....	Randy Wright
City Auto Glass.....	Mike Schenian
DINOL U.S. Inc.....	Joe Renzi
Don's Mobile Glass	Jacques Navant
Dow Automotive Systems	Steve Allison
eDirect Glass.....	Maria Iorio
Equalizer Industries, Inc.	Gilbert Gutierrez
Excel Auto Glass	Scott Owens
Glass Doctor.....	Thomas Patterson
Glasspro, Inc.	Jeff Olive
Independent Glass Association.....	Gary Hart
J Bull Associates, LLC.....	Jeff Bull
JP Consulting	Jean Pero
LYNX Services	Paul McFarland
Mainstreet Computers, Inc.	Mark Haeck

<i>Organization Represented</i>	<i>Name of Representative</i>
Mygrant Glass	Paul Anaya
Mitchell (NAGS) International.....	Bud Oliver
Orion Registrar, Inc.	Penny Ouellette
Pilkington North America, Inc.	Bill George
Richardson Glass Services	Gene Nichols
Safelite	Glen Moses
Serf Midwest, Inc.	Mark Formentini
Shat R Proof Corporation	Ted Andersen
SIKA Corporation	Mike Rea
Stockton Auto Glass.....	Mario Saenz
TechnaGlass, Inc.	Troy Mason
Technical Autoglass Consultants	Russ Corsi
Tiny & Sons Glass Co.	Peter Brown
Windshield Centers	Chuck Bibbiano

Introduction

(This introduction is not part of American National Standard ANSI/AGSC/AGRSS 004-2018.)

The Auto Glass Safety Council™ (AGSC) was founded in the late 1990s when professionals from windshield manufacturers, car makers, adhesive companies, and auto glass retailers came together with the goal of defining auto glass safety. This group began the process of establishing a safety standard for the auto glass industry.

By 1999, AGSC had developed the Auto Glass Replacement Safety Standard™ (AGRSS) in partnership with the American National Standards Institute. Since that time, many safety-conscious auto glass retailers have voluntarily agreed to follow the AGRSS Standard, giving the consumer an increased level of safety. The AGSC has provided the necessary standard for auto glass retailers to follow to make sure all precautions are taken to ensure driver and passenger safety.

Prior to the formation of the AGSC, the auto glass replacement industry had no standard for windshield installation. There was no consensus in the industry regarding proper installation methods. Unfortunately, this resulted in lives lost and serious injuries that could have been prevented. The lack of responsibility for providing a proper windshield replacement has also exposed many auto glass shops and their insurance providers to legal actions from unsuspecting automobile passengers who thought their glass replacement was performed correctly and safely.

The AGRSS Standard addresses six critical areas relative to the installation process, including:

- Vehicle assessment;
- Selection of glass and retention systems;
- Installation standards for adhesive bonded glass;
- Installation standards for rubber gasket set glass, as well as additional requirements for all other glass in a vehicle; and
- Continuing education for auto glass technicians.

The AGRSS Standard is continuously monitored by AGSC and the industry.

American National Standard Automotive Glass Replacement Safety Standard™ (AGRSS)

1 Scope and purpose

1.1 Scope

An automotive glass replacement safety standard addressing procedures, education and product performance for motor vehicles falling within the guidelines of FMVSS 212/208.

1.2 Purpose

1.2.1 To improve the performance and practices of industry technicians and raise their level of professionalism.

1.2.2 To guide the industry in auto glass replacement procedures that meet the pertinent Federal Motor Vehicle Safety Standard requirements.

1.2.3 To provide guidelines and objectives for groups that supply products, education, and training for the industry.

1.2.4 To promote public awareness of the need for safe installation procedures, which will reduce the risk of personal injury and/or death from traffic accidents.

1.2.5 To provide a comprehensive automotive glass replacement standard.

1.2.6 To achieve a higher degree of consistency among installation practices.

1.2.7 To create an automotive glass installation benchmark for anyone engaged in the replacement of automotive glass.

2 Normative References

The following standards contain provisions which, through reference in this text,