

AS 4557—2004
(Incorporating Amendment Nos 1 and 2)

AS 4557—2004

Australian Standard[®]

Domestic outdoor gas barbecues



This Australian Standard® was prepared by Committee AG-001, Gas Appliances. It was approved on behalf of the Council of Standards Australia on 25 May 2004. This Standard was published on 4 August 2004.

The following are represented on Committee AG-001:

- AGA (Network Operators)
 - AGA Certification Services
 - Appliance and Component Testing
 - Australian Liquefied Petroleum Gas Association
 - CSIRO Energy Technology
 - Committee AG-001-03
 - Consumers Federation of Australia
 - Energy Retailers Association of Australia
 - Gas Appliance Manufacturers Association of Australia
 - Gas Technical Regulators Committee
-

This Standard was issued in draft form for comment as DR 03538.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

AS 4557—2004
(Incorporating Amendment Nos 1 and 2)

Australian Standard[®]

Domestic outdoor gas barbecues

Originated as AG 107—1975.
Previous edition AS 4557—2001/AG 107—2001.
Revised and designated as AS 4557—2004.
Reissued incorporating Amendment No. 1 (May 2009).
Reissued incorporating Amendment No. 2 (June 2012).

COPYRIGHT

© Standards Australia Limited

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 6194 1

PREFACE

This Standard was prepared by the Standards Australia Working Group AG-001-00-08, Barbecues, under the responsibility of Standards Australia Committee AG-001, Gas Appliances to supersede AS 4557/AG 107—2001, *Domestic outdoor gas barbecues*.

This Standard incorporates Amendment No. 1 (May 2009) and Amendment No. 2 (June 2012). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with uniform minimum requirements for the safety, performance and use of domestic outdoor gas barbecues.

This Standard should not be regarded as a design specification or as an instruction manual.

In its preparation, consideration has been given to—

- (a) continuity of satisfactory operation;
- (b) the prevention of fire hazards, and explosions;
- (c) the prevention of injury to persons or property;
- (d) gas rules and regulations now in force; and
- (e) relevant International Standards.

The principal differences between this edition and AS 4557/AG 107—2001, are:

- (i) Appliance gas piping connection requirements.
- (ii) Device to shut off or reduce gas flow requirements.
- (iii) Requirements for dismantling, replacement and reassembly by the user.
- (iv) Provision of hose assembly.
- (v) Changes to permanent markings.
- (vi) Changes to instructions requirements.
- (vii) Changes to gas leakage requirements.
- (viii) Changes to warning labels requirements.
- (ix) Changes related to outdoor areas.

AS 5601/AG 601, *Gas Installations* provides essential requirements and basic standards for gas installations.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND DEFINITIONS	
1.1 SCOPE.....	5
1.2 DEFINITIONS.....	5
SECTION 2 DESIGN AND CONSTRUCTION	
2.1 GENERAL.....	14
2.2 MATERIALS AND STANDARDS	17
2.3 ELECTRICAL REQUIREMENTS	18
2.4 APPLIANCE GAS PIPING CONNECTION REQUIREMENTS	19
2.5 MAINTENANCE REQUIREMENTS	20
2.6 PRESSURE REGULATORS	21
2.7 GAS CONTROLS.....	21
2.8 IGNITION, PILOTS AND MAIN BURNERS.....	22
2.9 MARKINGS	23
2.10 INSTRUCTIONS.....	25
SECTION 3 PRELIMINARY TESTS FOR LINE GASES	
3.1 GENERAL REQUIREMENTS.....	28
3.2 PREPARATION FOR TESTING	28
3.3 GAS LEAKAGE.....	29
3.4 GAS CONSUMPTION.....	29
3.5 GAS PRESSURE REGULATORS	30
3.6 IGNITION AND SAFETY SHUT OFF SYSTEMS.....	30
SECTION 4 TESTS USING LIMIT CONDITIONS	
4.1 GENERAL.....	32
4.2 CO/CO ₂ RATIO LIMITS OF ANY BURNER—OVERLOAD.....	32
4.3 IGNITION AT MAXIMUM AND MINIMUM LIMITING CONDITIONS	32
4.4 FLAME STABILITY WHEN CHANGING SETTING	32
4.5 CO/CO ₂ RATIO LIMITS OF ANY INDEPENDENT SURFACE COMBUSTION BURNER - UNDERLOAD.....	33
4.6 CO/CO ₂ RATIO LIMITS FOR PERMANENT PILOTS - OVERLOAD.....	33
4.7 FLAME CHARACTERISTICS MAXIMUM AND MINIMUM LIMITING CONDITIONS	33
4.8 DELAYED IGNITION AT MAXIMUM AND MINIMUM LIMITING CONDITIONS	33
4.9 NOISE OF EXTINCTION.....	33
4.10 UNBURNT GAS RELEASE FROM BURNER SYSTEM	33
4.11 BURNER INTERFERENCE AT IGNITION OR DURING COMBUSTION.....	33
4.12 IGNITION AT TURNDOWN GAS CONSUMPTION	33
SECTION 5 PERFORMANCE TESTS	
5.1 TEMPERATURE HAZARDS	34
5.2 HEAT RESISTANCE	36
5.3 STRENGTH AND STABILITY	37
5.4 FLAME STABILITY TO DRAUGHT	37
5.5 RESISTANCE TO DOOR OPERATION	37
5.6 COOKING PERFORMANCE	37

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-