

Australian Standard™

**Twin wall metal flues—Gas appliances**

This Australian Standard was prepared by Committee AG-006, Gas Installation Committee. It was approved on behalf of the Council of Standards Australia on 10 January 2005.

This Standard was published on 21 February 2005.

---

The following are represented on Committee AG-006:

AGA Certification Services  
Australian Liquefied Petroleum Gas Association  
Energy Networks Association  
Gas Appliance Manufacturers Association of Australia  
Gas Technical Regulators Committee

---

#### **Keeping Standards up-to-date**

Standards are living documents which 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 Standards may also be withdrawn.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 which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Web Shop at [www.standards.com.au](http://www.standards.com.au) and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

Australian Standards and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at [mail@standards.org.au](mailto:mail@standards.org.au), or write to the Chief Executive, Standards Australia, GPO Box 5420, Sydney, NSW 2001.

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 4567—2005

Twin wall metal flues—Gas appliances

RECONFIRMATION NOTICE

Technical Committee AG-006 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 06 August 2017.

The following are represented on Technical Committee AG-006:

Access Canberra  
Association of Accredited Certification Bodies  
Association of Hydraulic Services Consultants Australia  
Australian Building Codes Board  
Caravan Industry Association of Australia  
Department of Natural Resources and Mines, QLD  
Energy Networks Australia  
Gas Appliance Manufacturers Association of Australia  
Gas Energy Australia  
Gas Technical Regulators Committee  
Gas Utilisation Institute, New Zealand  
LPG Association of New Zealand  
Master Plumbers and Mechanical Services Association of Australia (Victorian)  
Master Plumbers, Gasfitters and Drainlayers New Zealand  
Standards New Zealand  
The Australian Gas Association  
Victorian Building Authority  
Worksafe New Zealand

NOTES

Currently in preview, click buy full vers.

Australian Standard™

**Twin wall metal flues—Gas appliances**

Originally published as AG 605—1975.  
Previous edition AG 605—1994.  
Republished and redesignated as AS 4567—2005.

**COPYRIGHT**

© Standards Australia

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.

Published by Standards Australia, GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 6471 1

## PREFACE

This Standard was reviewed by the Standards Australia Committee, AG-006, Gas Installation Committee, to supersede AG 605—1987, *Approval Requirements For Twin Wall Metal Flues*. The Standard is republished without technical alterations.

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 twin wall metal flues.

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 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 the 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 GENERAL	
1.1 SCOPE .....	4
1.2 CLASSIFICATION .....	4
1.3 DEFINITIONS .....	4
SECTION 2 DESIGN AND CONSTRUCTION	
2.1 MATERIALS .....	5
2.2 CONSTRUCTION .....	6
2.3 DESIGN .....	6
2.4 MARKINGS .....	7
2.5 INSTRUCTIONS .....	8
SECTION 3 REQUIREMENTS FOR TYPE 1 TWIN WALL FLUES	
3.1 COMPONENTS .....	9
3.2 SIZES .....	9
3.3 SUPPORT PLATES .....	9
3.4 FLUE CONNECTION ELBOW AND ELBOW HOUSING .....	9
SECTION 4 REQUIREMENTS FOR TYPE 2 TWIN WALL FLUES	
4.1 COMPONENTS .....	11
4.2 SIZES .....	11
4.3 SUPPORT PLATES .....	11
4.4 FLUE CONNECTION ELBOW AND ELBOW HOUSING .....	11
SECTION 5 REQUIREMENTS FOR TYPE 3 TWIN WALL FLUES	
5.1 COMPONENTS .....	13
5.2 SIZES .....	13
SECTION 6 PERFORMANCE	
6.1 GENERAL .....	14
6.2 OPERATING CHARACTERISTICS .....	14
6.3 MECHANICAL STRENGTH .....	14
APPENDICES	
A FIGURES .....	15
B METHODS OF TEST .....	22
C LIST OF REFERENCED DOCUMENTS .....	30

## STANDARDS AUSTRALIA

**Australian Standard**  
**Twin wall metal flues—Gas appliances**

## SECTION 1 GENERAL

**1.1 SCOPE**

These requirements cover twin wall flue and components, excluding flue cowls (refer AS 4566), used for flueing gas appliances with a maximum flue gas temperature of 270 °C.

Flue approved in accordance with these requirements is not suitable for installation where it is inaccessible and subject to continuous condensation.

**1.2 CLASSIFICATION**

Twin wall flues shall be classified according to type as follows:

- (a) Type 1 Rectangular twin wall flues designed for installation within standard wall cavities of 75 mm nominal width and for appliances with a gas consumption not exceeding 50 MJ/h.
- (b) Type 2 Twin wall flues designed for installation within standard wall cavities of 95 mm nominal width and for appliances with a gas consumption not exceeding 50 MJ/h.
- (c) Type 3 Other twin wall flues not exceeding 300 mm nominal diameter or equivalent.

**1.3 DEFINITIONS**

For the purpose of this Standard, the following definitions apply:

**1.3.1 Approved**

Acceptable to, and meeting the prescribed standards of, the authority having jurisdiction.

**1.3.2 Authority**

The authority having jurisdiction or such authority as delegated. (Technical regulator).

**1.3.3 Base plate**

A device used to support the weight of the appliance and to locate it.

**1.3.4 Certified**

Assessed by a certifying body and having a certificate number to demonstrate compliance with a Standard.

**1.3.5 Certifying body**

A body acceptable to the technical regulator that provides assurance of compliance of appliances and components with nominated Standards and other accepted safety criteria.

**1.3.6 Draught diverter**

A device, without moving parts, fitted in the flue of an appliance for isolating the combustion system from the effects of pressure changes in the secondary flue.