

**AS 1905.1:2015**  
(Incorporating Amendment No. 1)

AS 1905.1:2015



# **Components for the protection of openings in fire-resistant walls**

## **Part 1: Fire-resistant doorsets**



This Australian Standard® was prepared by Committee FP-019, Passive Fire Protection. It was approved on behalf of the Council of Standards Australia on 28 July 2015. This Standard was published on 25 August 2015.

---

The following are represented on Committee FP-019:

- Architectural Door Hardware Association
  - Australasian Fire and Emergency Service Authorities Council
  - Australian Building Codes Board
  - Australian Industry Group
  - Australian Security Industry Association
  - Building Research Association of New Zealand (BRANZ)
  - CSIRO Materials Science and Engineering
  - Engineers Australia
  - Fire Protection Association Australia
  - Fire Protection Association New Zealand
  - Insurance Council of Australia
- 

This Standard was issued in draft form for comment as DR AS 1905.1:2014.

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Standards may also be withdrawn.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](http://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](mailto:mail@standards.org.au), or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

---

**AS 1905.1:2015**  
(Incorporating Amendment No. 1)

**Australian Standard<sup>®</sup>**

## **Components for the protection of openings in fire-resistant walls**

### **Part 1: Fire-resistant doorsets**

First published in Australia as AS CA57.1—1972.  
Revised and redesignated AS 1905.1—1976.  
Fourth edition 1990.  
First published in New Zealand as part of NZS 1188:1954.  
Revised and redesignated in part as NZS 4232.1:1988.  
AS 1905.1—1990 and NZS 4232.1:1988, jointly revised, amalgamated  
and designated AS/NZS 1905.1:1997.  
AS/NZS 1905.1:1997 revised and redesignated as AS 1905.1—2005.  
Second edition 2015.  
Reissued incorporating Amendment No. 1 (July 2016).

#### **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.

ISBN 978 1 76035 212 7

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FP-019, Passive Fire Protection, to supersede AS 1905.1—2005.

*This Standard incorporates Amendment No. 1 (July 2016). 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.*

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide manufacturers, suppliers and installers with minimum requirements for the construction and installation of fire-resistant doorsets designed to protect the openings in walls and elements of construction that are required to resist the passage of fire.

The objective of the revision of AS 1905.1—2005 is to address inconsistencies in the Standard, to meet the Australian Building Codes Board and Standards Australia protocols for *National Construction Code* (NCC) referenced documents and clarify the requirements for testing, assessments, installation, marking and documentation.

This revision includes following changes:

- (a) Compliance with the ABCB protocol for the development of NCC referenced documents.
- (b) Clarification of requirements for testing, assessments, installation marking and documentation.

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

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

*This Standard incorporates a Commentary on some clauses. The Commentary directly follows the relevant clause, is designated by ‘C’ preceding the clause number and is printed in italics in a panel. The Commentary is for information only and does not need to be followed for compliance with the Standard.*

## CONTENTS

	<i>Page</i>
<b>SECTION 1 SCOPE AND GENERAL</b>	
1.1 SCOPE.....	4
1.2 APPLICATION .....	4
1.3 NORMATIVE REFERENCES .....	4
1.4 DEFINITIONS.....	5
<b>SECTION 2 DESIGN REQUIREMENTS</b>	
2.1 GENERAL REQUIREMENTS.....	14
2.2 THRESHOLDS .....	15
2.3 SIDE-HUNG DOORS, INCLUDING DOUBLE-ACTING DOORSETS .....	15
2.4 SLIDING DOORSETS .....	17
2.5 VISION PANELS .....	18
<b>SECTION 3 DETERMINATION OF FIRE RESISTANCE .....</b>	<b>19</b>
<b>SECTION 4 VARIATIONS FROM THE TESTED SPECIMEN</b>	
4.1 GENERAL.....	20
4.2 MINIMUM FIRE TESTING REQUIREMENTS FOR THE PREPARATION OF ASSESSMENT .....	20
4.3 ASSESSMENT REPORT .....	20
4.4 VARIATIONS THAT REQUIRE FULL-SCALE FIRE TESTING .....	21
4.5 VARIATIONS THAT REQUIRE FULL-SCALE TESTING OR PILOT TESTING .....	21
4.6 VARIATIONS TO BE ASSESSED WITHOUT ADDITIONAL TESTING.....	23
4.7 PERMISSIBLE VARIATIONS FOR FIXING OF DOORFRAMES .....	23
<b>SECTION 5 INSTALLATION</b>	
5.1 GENERAL.....	24
5.2 METAL DOORFRAMES IN NON-MASONRY WALLS .....	24
5.3 METAL DOORFRAMES IN MASONRY WALLS .....	24
5.4 TIMBER DOORFRAMES.....	24
5.5 CLEARANCES AROUND DOOR LEAVES .....	25
5.6 HARDWARE .....	27
5.7 FINAL CHECK .....	28
<b>SECTION 6 MARKING AND OTHER DOCUMENTATION</b>	
6.1 MARKING OF FIRE-RESISTANT DOORSETS.....	29
6.2 MARKING OF LATCHSETS, CLOSERS AND SEALS .....	31
6.3 EVIDENCE .....	32
<b>APPENDICES</b>	
A PHYSICAL TESTING OF FIRE-RESISTANT DOORSETS .....	34
B INFORMATION TO BE SUPPLIED WITH ENQUIRIES AND ORDERS .....	37
C EXAMPLE OF FIRE DOOR CERTIFICATE AND SCHEDULE OF EVIDENCE OF COMPLIANCE .....	40
<b>BIBLIOGRAPHY .....</b>	<b>42</b>

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
-