

Australian Standard[®]

Smoke doors



This Australian Standard® was prepared by Committee FP-019, Passive Fire Protection. It was approved on behalf of the Council of Standards Australia on 29 June 2007. This Standard was published on 12 September 2007.

The following are represented on Committee FP-019:

- Architectural Hardware Industry Association
 - Australasian Fire Authorities Council
 - Australian Building Codes Board
 - Australian Industry Group
 - Australian Institute of Building
 - Building Research Association of New Zealand
 - CSIRO Manufacturing and Infrastructure Technology
 - Department of Building and Housing (New Zealand)
 - Department of Human Services (Victoria)
 - Fire Protection Association Australia
 - Fire Protection Association New Zealand
 - Testing Interests (Australia)
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This Standard was issued in draft form for comment as DR 06346.

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.

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RECONFIRMATION

OF
AS 6905—2007
Smoke doors

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PREFACE

This Standard was prepared by Standards Australia Committee FP-019, Passive Fire Protection.

The objective of this Standard is to improve life safety in buildings by limiting the spread of smoke and products of smoke through door openings.

Smoke is a major contributor toward fatalities and serious injury in structural fires; therefore, adequate smoke control systems are necessary in buildings, where deemed appropriate.

This Standard has been prepared to specify parameters for door performance based on allowable smoke leakage rates at given temperatures and pressures. It introduces a smoke rating for doors, akin to a fire rating, by which the results of testing to the test method Standard, AS 1530.7, *Methods for fire tests on building materials, components and structures, Part 7: Smoke control assemblies—Ambient and medium temperature leakage test procedure*, can be applied.

With the introduction of a performance-based Building Code of Australia, the use of smoke doors in buildings has increased, leading to a need to adequately specify and install doors having a quantified level of performance.

The specification of 30 min exposure at a temperature of 200°C has been aligned with the Building Code of Australia's deemed-to-satisfy requirements for smoke doors. Smoke spread through penetrations, including acceptable leakage rates, is the subject of research for regulatory review in the BCA.

At the time of writing there were no Australian Standards for testing high temperature smoke doors, although a project to consider a high temperature air leakage test is being investigated.

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.

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