

Australian Technical Specification

Guidelines—Fire safety engineering

Part 4: Initiation and development of fire and generation of fire effluents



This Australian Technical Specification was prepared by Committee FP-018, Fire Safety. It was approved on behalf of the Council of Standards Australia on 5 May 2006.
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Australian Fire Authorities Council
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OF

ATS 5387.4—2006

Guidelines—Fire safety engineering

Part 4: Initiation and development of fire and generation of fire effluents

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 16 August 2017.

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PREFACE

This Technical Specification was prepared by the Standards Australia Technical Committee FP-018, Fire Safety.

This Technical Specification is reproduced from and is identical to ISO/TR 13387-4:1999. It forms part of a series of eight pre-standardization documents prepared by Technical Committee ISO/TC 92, Fire Safety, Subcommittee SC 4, Fire Safety Engineering, published in 1999 with the main title Fire Safety Engineering. It reports on a subject that is still under technical development and consideration within ISO committees and has not yet achieved the consensus required for an International Standard.

As this Technical Specification is reproduced from an international document, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text 'ISO/TR 13387-4' is intended to read 'ATS 5387.4'.

The document has been reviewed by members of Standards Australia Committee FP-018, through Subcommittee FP-018-04 on Fire Safety Engineering. It has been recommended for publication in Australia as an informative Technical Specification in order to promote discussion and international harmonization in the field of fire safety engineering. The document provides valuable insight into international thinking on some major aspects of fire safety engineering practice.

The approach documented in this series has not been reviewed for consistency with the International Fire Engineering Guidelines published by the Australian Building Codes Board (ABCB) in collaboration with code writing bodies in Canada, United States of America and New Zealand. Part 1, *Application of fire performance concepts to design objectives*, provides an alternative process to that in the International Fire Engineering Guidelines. Parts 2 to 8 provide details of methodologies and data that complement Parts 2 and 3 of the International Fire Engineering Guidelines. This series of technical reports is published to facilitate a greater degree of standardization in fire safety engineering, with a view towards the development of a harmonized international standard. Users should check the technical content of this document for currency and accuracy.

This document contains several normative references, however, these references are intended for guidance only, consistent with the nature of the document. Reference in this document to consultation with the approval authorities, in cases where alternative solutions to current building regulations might be sought, would be taken into consideration and are not intended to be mandatory, but rather are included for guidance. Refer to Building Regulatory Authorities relevant to the State and Territory for direction on applicable administrative regulation procedures.

This Technical Specification consists of the following parts, under the general title: Guidelines—Fire safety engineering:

- Part 1: Application of fire performance concepts to design objectives*
- Part 2: Design fire scenarios and design fires*
- Part 3: Assessment and verification of mathematical fire models*
- Part 4: Initiation and development of fire and generation of fire effluents*
- Part 5: Movement of fire effluents*
- Part 6: Structural response and fire spread beyond the enclosure of origin*
- Part 7: Detection, activation and suppression*
- Part 8: Life safety—Occupant behaviour, location and condition*

Annex A is for information only.

This Technical Specification is not an Australian Standard and has not been developed and approved using the full transparency and consensus processes that underpin Australian Standards.

As a Technical Specification it has been subject to a moderate level of transparency and is backed by a certain degree of stakeholder consensus.

For further advice on the status of this document see Standardization Guide 13 Publications of Lower Level of Transparency and Consensus which is available at the following web address:

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