

Australian Standard™

**Components for the protection of
openings in fire-resistant separating
elements**

**Part 1: Service penetrations and control
joints**

STANDARDS
Australia



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Architectural Hardware Industry Association
Australasian Fire Authorities Council
Australian Building Codes Board
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**Components for the protection of
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**Part 1: Service penetrations and control
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Originally issued as AS 4072.1—1992.
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PREFACE

This Standard was prepared by the Standards Australia Committee FP-019, Passive Fire Protection, to supersede AS 4072.1—1992.

This Standard incorporates Amendment No. 1 (March 2006). 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 the building industry with minimum requirements for the application of fire resistance tests and installation of fire protection systems for service penetrations and control joints through fire-resistant separating elements of construction, to facilitate the required fire resistance of the separating elements.

The previous edition included defined test configurations for the evaluation of penetration sealing systems and control joint sealing systems in fire-separating elements of construction, together with the application of test results. Requirements for standard configurations and permissible variations that do not require assessment have been moved from this Standard to AS 1530.4, *Methods for fire tests on building materials, components and structures, Part 4: Fire resistance test of elements of construction*, in line with the ISO 834 *Fire resistance tests—Elements of building construction*, Standards. As such, this Standard is to be used in conjunction with the appropriate clauses of AS 1530.4.

Clarity has been improved and provision has been made for greater flexibility in the assessment of alternative plastic pipe materials, due to the large increase in the range of plastic pipes available, thus reducing fire testing costs whilst providing for a reasonable level of confidence in the likely performance of the pipe fire protection systems.

This Edition includes advice on documentation of installations, to facilitate correct installation and record keeping, which has been identified as a significant problem in buildings constructed during the last 10 years.

This Standard will be referenced in the Building Code of Australia (BCA) by way of BCA 2006 to be published by 1 May 2006, thereby superseding the previous edition, AS 4072.1—1992.

The requirements for maintenance of service penetrations and control joints are not covered in 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.

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STANDARDS AUSTRALIA

Australian Standard

Components for the protection of openings in fire-resistant separating elements

Part 1: Service penetrations and control joints

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out minimum requirements for the construction, installation and application of fire resistance tests to sealing systems—

- (a) around penetrations through separating building elements that are required to have a fire resistance level (FRL) or, if applicable, a resistance to the incipient spread of fire; and
- (b) at control joints between building elements that are required to have a fire resistance level (FRL).

NOTES:

- 1 Explanatory notes and comment on the testing regime are included in Appendix A.
- 2 This Standard does not address smoke leakage through sealing systems around penetrations and at control joints. Other Standards, such as AS/NZS 1530.7, may be used for evaluating the potential for smoke spread.
- 3 The regulatory authority may require some evidence of compliance of the sealing systems installed in a building. Should this be the case, the recommended practice is given in Appendix B.

1.2 APPLICATION

The Standard is intended to complement the fire protection requirements of the *Building Code of Australia* (BCA) and to be read in conjunction with the appropriate clauses of AS 1530.4, which provides methods for determining the fire resistance of service penetrations and control joints.

1.3 NORMATIVE REFERENCED DOCUMENTS

The following referenced documents are indispensable for the application of this Standard. The latest edition of the referenced document (including any amendments) applies.

NOTE For a list of informative documents referred to in this Standard, see Bibliography at the end of the document.

AS

- | | |
|--------|---|
| 1530 | Methods for fire tests on building materials, components and structures |
| 1530.4 | Part 4: Fire resistance tests of elements of building construction |

ABCB

- | | |
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| BCA | Building Code of Australia |
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1.4 DEFINITIONS

For the purpose of this Standard, the definitions below apply.