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Acceptable Solution C/AS4: Buildings with Public Access and Educational Facilities (Risk Group CA)

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Abbreviation

C/AS4

Amendment

4

Version

First edition, amendment 4

Valid to

31/10/2019

Valid from

01/01/2017

Information provider

Ministry of Business, Innovation and Employment

Information type

Acceptable Solution

Format

PDF

Cites

[This resource cites 34 documents \(show Citations\)](#)

Description

The Building Code clauses C1 to C6 Protection from Fire relate to protecting people in and around buildings, limiting fire spread and helping firefighting and rescue. This Acceptable Solution can be used for establishing compliance with those clauses for risk group CA. It is one of a suite of Acceptable Solutions C/AS1 to C/AS7, each of them corresponding to a risk group.

Scope

The scope of this Acceptable Solution is restricted to risk group CA. This covers buildings, or parts of buildings, where people congregate, participate in group activities, or where personal services are provided. These include the following, provided they are no more than 20 storeys high (from ground level):

- a) Halls, theatres, cinemas
- b) Early childhood centres
- c) Shops and shopping malls
- d) Recreation and event centres (with tiered seating for up to 2000 people and with any primary egress for more than 100 people at the level of the playing surface)
- e) Churches and other places of worship
- f) Libraries with less than 2.4 m storage height
- g) Education institutions without sleeping, and

- h) Personal services eg, dentists and doctors (where not included in risk group SI), beauty therapists and hair salons.

Previous versions:

[C/AS4 \(Amendment 3\)](#)
[C/AS4 \(Amendment 2\)](#)
[C/AS4 \(Amendment 1, Errata 1\)](#)
[C/AS4 \(First Edition\)](#)

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Previous versions

[C/AS4 Amendment 3](#) [Amendment 3](#)
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This document CITES:

New Zealand Standards

- [AS/NZS 1668.1:1998](#)

C/AS4 cites AS/NZS 1668.1:1998 The use of ventilation and air conditioning in buildings - Fire and smoke control in multi-compartment buildings from 10/04/2012

- [AS/NZS 2918:2001](#)

C/AS4 cites AS/NZS 2918:2001 Domestic solid fuel burning appliances - Installation from 10/04/2012

- [AS/NZS 5601.1:2010](#)

C/AS4 cites AS/NZS 5601.1:2010 Gas installations - Part 1: General installations from 19/12/2013

- [NZS 4232.2:1988](#)

C/AS4 cites NZS 4232.2:1988 Performance criteria for fire resisting enclosures - Fire resisting glazing systems from 10/04/2012

- [NZS 4332:1997](#)

C/AS4 cites NZS 4332:1997 Non-domestic passenger and goods lifts from 10/04/2012

- [NZS 4510:2008](#)

C/AS4 cites NZS 4510:2008 Fire hydrant systems for buildings from 10/04/2012

- [NZS 4512:2010](#)

C/AS4 cites NZS 4512:2010 Fire detection and alarm systems in buildings from 10/04/2012

- [NZS 4515:2009](#)

C/AS4 cites NZS 4515:2009 Fire sprinkler systems for life safety in sleeping occupancies (up to 2000 square metres) from 10/04/2012

- [NZS 4520:2010](#)

C/AS4 cites NZS 4520:2010 Fire resistant doorsets from 10/04/2012

- [NZS 4541:2013](#)

C/AS4 cites NZS 4541:2013 Automatic fire sprinkler systems from 19/12/2013

- [NZS/AS 1530.1:1994 \(R2016\)](#)

C/AS4 cites NZS/AS 1530.1:1994 (R2016) Methods for fire tests on building materials, components and structures - Part 1: Combustibility test for materials from 10/04/2012

- [NZS/BS 476.21:1987](#)

C/AS4 cites NZS/BS 476.21:1987 Fire tests on building materials and structures - Methods for determination of the fire resistance of loadbearing elements of construction from 10/04/2012

- [NZS/BS 476.22:1987](#)

C/AS4 cites NZS/BS 476.22:1987 Fire tests on building materials and structures -Methods for determination of the fire resistance of non-loadbearing elements of construction from 10/04/2012

Australian Standards

- [AS 1366.1-1992 \(Reconfirmed in 2018\)](#)

C/AS4 cites AS 1366.1-1992 (R2018) Rigid cellular plastics sheets for thermal insulation - Rigid cellular polyurethane (RC/PUR) from 10/04/2012

- [AS 1366.2-1992 \(Reconfirmed in 2018\)](#)

C/AS4 cites AS 1366.2-1992 (R2018) Rigid cellular plastics sheets for thermal insulation - Rigid cellular polyisocyanurate (RC/PIR) from 10/04/2012

- [AS 1366.3-1992 \(Reconfirmed in 2018\)](#)

C/AS4 cites AS 1366.3-1992 (R2018) Rigid cellular plastics sheets for thermal insulation - Rigid cellular polystyrene - moulded (RC/PS-M) from 10/04/2012

- [AS 1366.4-1989 \(Reconfirmed in 2018\)](#)

C/AS4 cites AS 1366.4-1989 (R2018) Rigid cellular plastics sheets for thermal insulation - Rigid cellular polystyrene - extruded (RC/PS-E) from 10/04/2012

- [AS 1530.2-1993 \(R2016\)](#)

C/AS4 cites AS 1530.2-1993 (R2016) Methods for fire tests on building materials, components and structures. Part 2: Test for flammability of materials from 10/04/2012

- [AS 1530.4-2005](#)

C/AS4 cites AS 1530.4-2005 Methods for fire tests on building materials, components and structures. Part 4: Fire-resistance test of elements of construction from 10/04/2012

- [AS 1691-1985](#)

C/AS4 cites AS 1691-1985 Domestic oil-fired appliances - installation from 10/04/2012

- [AS 4072.1-2005 \(R2016\)](#)

C/AS4 cites AS 4072.1-2005 (R2016) Components for the protection of openings in fire-resistant separating elements. Part 1: Service penetrations and control joints from 10/04/2012

- [AS ISO 9705-2003 \(R2016\)](#)

C/AS4 cites AS ISO 9705-2003 (R2016) Fire tests - Full-scale room test for surface products from 01/01/2017

Other

- [ASTM D2898-10](#)

C/AS4 cites ASTM D2898-10 Standard Practice for Accelerated Weathering of Fire-retardant Treated Wood for Fire Testing from 10/04/2012

- [BS EN 12101-1:2005](#)

C/AS4 cites BS EN 12101-1:2005 Smoke and heat control systems - Specification for smoke barriers from 10/04/2012

- [BS EN 13501-1:2007](#)

C/AS4 cites BS EN 13501-1:2007 Fire classification of construction products and building elements - Classification using test data from reaction to fire tests from 01/01/2017

- [HSNO 1996 No 30](#)

C/AS4 cites Hazardous Substances and New Organisms Act 1996 from 10/04/2012

- [ISO 5660-1:2002](#)

C/AS4 cites ISO 5660-1:2002 Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Heat release rate (cone calorimeter method) from 10/04/2012

- [ISO 5660-2:2002](#)

C/AS4 cites ISO 5660-2:2002 Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Smoke production rate (dynamic measurement) from 15/02/2013

- [ISO 9239:1:2010](#)

C/AS4 cites ISO 9239-1:2010 Reaction to fire tests for floorings - Determination of the burning behaviour using a radiant heat source from 10/04/2012

- [ISO 9705:1993](#)

C/AS4 cites ISO 9705:1993 Fire tests - Full scale room test for surface products from 15/02/2013

- [NCC Spec C1.10](#)

C/AS4 cites National Construction Code Specification C1.10 Fire Hazard Properties from 01/01/2017

- [NFPA 285:1998](#)

C/AS4 cites NFPA 285: 1998 Standard method of test for the evaluation of flammability characteristics of exterior non-load-bearing wall assemblies containing components using the intermediate scale, multi-storey test apparatus from 10/04/2012

- [SR 2006/123](#)

C/AS4 cites Fire Safety and Evacuation of Buildings Regulations 2006 from 10/04/2012

- [SR 2008/204](#)

C/AS4 cites Education (Early Childhood Services) Regulations 2008 from 10/04/2012

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