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## Acceptable Solution C/AS5: Buildings used for Business, Commercial and Low Level Storage (Risk Group WB)

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Abbreviation

C/AS5

Amendment

3

Version

Amendment 3

Valid to

30/05/2017

Valid from

01/07/2014

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Information provider

Ministry of Business, Innovation and Employment

Information type

Acceptable Solution

Format

PDF

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Cites

[This resource cites 30 documents \(show Citations\)](#)

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### 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 WB. 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 WB. This covers buildings, or parts of buildings, where people work.

These include the following, provided they are no more than 20 storeys high (from ground level):

- a) Offices (including professional services such as law and accountancy practices)
- b) Industrial buildings such as factories, processing and manufacturing plants (excluding foamed plastics). May include temperature controlled storage up to a maximum area of 500 m<sup>2</sup> with a maximum capable of storage height of 5.0 m.
- c) Buildings or parts of buildings capable of less than 5.0 m storage height
- ca) Warehouses and storage buildings capable of storage of 5.0 m or greater but with a height to apex of less than 8.0 m and building floor area of less than 4200 m<sup>2</sup>

- d) Temperature controlled storage capable of less than 3.0 m high storage height
- e) Laboratories
- f) Light aircraft hangars,
- g) Normally unoccupied buildings such as buildings containing plant or fixed machinery only, and
- h) Spray painting operations, whether or not within a spray booth.

**Previous versions:**

[C/AS5 \(Amendment 2\)](#)  
[C/AS5 \(Amendment 1, Errata 1.\)](#)  
[C/AS5 \(First Edition\)](#)

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Previous versions

[C/AS5 Amendment 2](#) [Amendment 2](#)  
[C/AS5 Amendment 1](#) [Amendment 1, Errata 1.](#)  
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This document CITES:

## New Zealand Standards

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

C/AS5 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/AS5 cites AS/NZS 2918:2001 Domestic solid fuel burning appliances - Installation from 10/04/2012

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

C/AS5 cites AS/NZS 5601.1:2010 Gas installations - Part 1: General installations from 19/12/2013

- [NZS 4232.2:1988](#)

C/AS5 cites NZS 4232.2:1988 Performance criteria for fire resisting enclosures - Fire resisting glazing systems from 10/04/2012

- [NZS 4332:1997](#)

C/AS5 cites NZS 4332:1997 Non-domestic passenger and goods lifts from 10/04/2012

- [NZS 4510:2008](#)

C/AS5 cites NZS 4510:2008 Fire hydrant systems for buildings from 10/04/2012

- [NZS 4512:2010](#)

C/AS5 cites NZS 4512:2010 Fire detection and alarm systems in buildings from 10/04/2012

- [NZS 4515:2009](#)

C/AS5 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/AS5 cites NZS 4520:2010 Fire resistant doorsets from 10/04/2012

- [NZS 4541:2013](#)

C/AS5 cites NZS 4541:2013 Automatic fire sprinkler systems from 19/12/2013

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

C/AS5 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/AS5 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/AS5 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/AS5 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/AS5 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/AS5 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/AS5 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/AS5 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/AS5 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/AS5 cites AS 1691-1985 Domestic oil-fired appliances - installation from 10/04/2012

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

C/AS5 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

#### Other

- [ASTM D2898-10](#)

C/AS5 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/AS5 cites BS EN 12101-1:2005 Smoke and heat control systems - Specification for smoke barriers from 10/04/2012

- [HSNO 1996 No 30](#)

C/AS5 cites Hazardous Substances and New Organisms Act 1996 from 10/04/2012

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

C/AS5 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/AS5 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/AS5 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/AS5 cites ISO 9705:1993 Fire tests - Full scale room test for surface products from 15/02/2013

- [NFPA 285:1998](#)

C/AS5 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/AS5 cites Fire Safety and Evacuation of Buildings Regulations 2006 from 10/04/2012

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