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## Acceptable Solution C/AS1: Buildings with Sleeping (residential) and Outbuildings (Risk Group SH)

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Abbreviation

C/AS1

Amendment

2

Version

Amendment 2

Valid to

28/02/2015

Valid from

19/12/2013

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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 26 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 SH. 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 SH. This covers buildings where people sleep including multi-unit residential with some restrictions on height and outbuildings (as described in Clause A1 7.0 of NZBC).

This includes the following:

- a) Single household units
- b) Multi-unit dwellings with no more than one unit above another and where each unit has an escape route independent of all other units, and including associated garages or carports whether or not they are part of the same building
- c) Detached dwellings used as boarding houses for fewer than six people (not including members of the residing family)

- d) Garages that are part of a household unit, and
- e) Garages shared by more than one household unit. The garage shall be fire separated from each adjacent household unit with fire rated construction of 30/30/30.

Buildings or parts of buildings in risk groups other than SH are outside the scope of this Acceptable Solution.

**Previous versions:**

[C/AS1 \(Amendment 1, Errata 1\)](#)  
[C/AS1 \(First Edition\)](#)

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Previous versions

[C/AS1 Amendment 1](#) [Amendment 1, Errata 1](#)  
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**This document CITES:**

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- [AS/NZS 1668.1:1998](#)  
C/AS1 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/AS1 cites AS/NZS 2918:2001 Domestic solid fuel burning appliances - Installation from 10/04/2012
- [AS/NZS 5601.1:2010](#)  
C/AS1 cites AS/NZS 5601.1:2010 Gas installations - Part 1: General installations from 19/12/2003
- [AS/NZS 60598.2.2:2001](#)  
C/AS1 cites AS/NZS 60598.2.2:2001 Luminaires - Particular requirements - Recessed luminaires from 10/09/2012
- [NZS 4510:2008](#)  
C/AS1 cites NZS 4510:2008 Fire hydrant systems for buildings from 10/09/2012
- [NZS 4512:2010](#)  
C/AS1 cites NZS 4512:2010 Fire detection and alarm systems in buildings from 10/04/2012
- [NZS 4515:2009](#)  
C/AS1 cites NZS 4515:2009 Fire sprinkler systems for life safety in sleeping occupancies (up to 2000 square metres) from 10/04/2012
- [NZS 4517:2010](#)  
C/AS1 cites NZS 4517:2010 Fire Sprinkler Systems for Houses from 10/04/2012
- [NZS 4520:2010](#)  
C/AS1 cites NZS 4520:2010 Fire resistant doorsets from 10/04/2012
- [NZS 4541:2013](#)  
C/AS1 cites NZS 4541:2013 Automatic fire sprinkler systems from 19/12/2013
- [NZS/AS 1530.1:1994 \(R2016\)](#)  
C/AS1 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
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C/AS1 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
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C/AS1 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/AS1 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/AS1 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/AS1 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/AS1 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/AS1 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/AS1 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/AS1 cites AS 1691-1985 Domestic oil-fired appliances - installation from 10/04/2012

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

C/AS1 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**

- [HSNO 1996 No 30](#)

C/AS1 cites Hazardous Substances and New Organisms Act 1996 from 10/04/2012

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

C/AS1 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](#)

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

C/AS1 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/AS1 cites ISO 9705:1993 Fire tests - Full scale room test for surface products from 15/02/2013

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