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Acceptable Solution C/AS6: Buildings used for High Level Storage and Other High Risk Purposes (Risk Group WS)

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Abbreviation
C/AS6
Amendment
3
Version
Amendment 3.
Valid to
30/05/2017
Valid from
01/07/2014

Information provider
Ministry of Business, Innovation and Employment
Information type
Acceptable Solution
Format
PDF

Cites
[This resource cites 30 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 WS. 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 WS. This covers buildings or parts of buildings capable of storage of goods and other materials at a height of 3.0 m or more (warehouses with storage 5.0 m or more) and other spaces where there is a high fire load or the potential for fast fire growth.

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

- a) Warehouses capable of storage over 5.0 m in height except storage buildings capable of storage of 5.0 m or greater but with a height to apex of less than 8.0 m and floor area of less than 4200 m² (see C/AS5)
- b) Supermarkets with shelving over 3.0 m
- c) Bulk retail and wholesalers with greater than 3.0 m storage height
- d) Temperature controlled storage with a stack height of more than 3.0 m except limited areas in processing buildings (see C/AS5).

Previous versions:

[C/AS6 \(Amendment 2\)](#)

[C/AS6 \(First Edition\)](#)

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This document CITES:

New Zealand Standards

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

C/AS6 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/AS6 cites AS/NZS 2918:2001 Domestic solid fuel burning appliances - Installation from 10/04/2012

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

C/AS6 cites AS/NZS 5601.1:2010 Gas installations - Part 1: General installations from 19/12/2013

- [NZS 4232.2:1988](#)

C/AS6 cites NZS 4232.2:1988 Performance criteria for fire resisting enclosures - Fire resisting glazing systems from 10/04/2012

- [NZS 4332:1997](#)

C/AS6 cites NZS 4332:1997 Non-domestic passenger and goods lifts from 10/04/2012

- [NZS 4510:2008](#)

C/AS6 cites NZS 4510:2008 Fire hydrant systems for buildings from 10/04/2012

- [NZS 4512:2010](#)

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- [NZS 4515:2009](#)

C/AS6 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](#)

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- [NZS 4541:2013](#)

C/AS6 cites NZS 4541:2013 Automatic fire sprinkler systems from 19/12/2013

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

C/AS6 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/AS6 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/AS6 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/AS6 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/AS6 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/AS6 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/AS6 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/AS6 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/AS6 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/AS6 cites AS 1691-1985 Domestic oil-fired appliances - installation from 10/04/2012

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

C/AS6 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/AS6 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/AS6 cites BS EN 12101-1:2005 Smoke and heat control systems - Specification for smoke barriers from 10/04/2012

- [HSNO 1996 No 30](#)

C/AS6 cites Hazardous Substances and New Organisms Act 1996 from 10/04/2012

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

C/AS6 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/AS6 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/AS6 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/AS6 cites ISO 9705:1993 Fire tests - Full scale room test for surface products from 15/02/2013

- [NFPA 285:1998](#)

C/AS6 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/AS6 cites Fire Safety and Evacuation of Buildings Regulations 2006 from 10/04/2012

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