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## Verification Method C/VM2: Framework for Fire Safety Design

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Abbreviation

C/VM2

Amendment

4

Version

First edition, amendment 4

Valid to

23/11/2017

Valid from

01/07/2014

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Information provider

Ministry of Business, Innovation and Employment

Information type

Verification Method

Format

PDF

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Cites

[This resource cites 26 documents \(show Citations\)](#)

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### Description

Verification Method C/VM2 provides a means of compliance with Protection from Fire Clauses C1 to C6, the six Building Code clauses related to protecting people in and around buildings, limiting fire spread and helping firefighting and rescue.

It is a Verification Method for the specific design of buildings to demonstrate compliance with NZBC C1 to C6 Protection from Fire.

### Scope

C/VM2 is suitable for use by professional fire engineers who are proficient in the use of fire engineering modelling methods.

There are some minor exceptions to 'all buildings', for example tunnels and open air stadia. Users should refer to the Commentary to this Verification Method for further information.

### Previous versions:

[C/VM2 \(First Edition, Amendment 3\)](#)

[C/VM2 \(First Edition, Amendment 2, Errata 2\)](#)

[C/VM2 \(First Edition, Amendment 1, Errata 1\)](#)  
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#### Previous versions

[C/VM2 Amendment 3 First Edition, Amendment 3](#)  
[C/VM2 Amendment 2 First Edition, Amendment 2, Errata 2](#)  
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[C/VM2 First Edition](#)

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## Verification Method C/VM2: Framework for Fire Safety Design

This document CITES:

New Zealand Standards

- [AS/NZS 3837:1998](#)

C/VM2 cites AS/NZS 3837:1998 (R216) Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter from 10/04/2012

- [NZS 4510:2008](#)

C/VM2 cites NZS 4510:2008 Fire hydrant systems for buildings from 10/04/2012

- [NZS 4512:2010](#)

C/VM2 cites NZS 4512:2010 Fire detection and alarm systems in buildings from 10/04/2012

- [NZS 4515:2009](#)

C/VM2 cites NZS 4515:2009 Fire sprinkler systems for life safety in sleeping occupancies (up to 2000 square metres) from 10/04/2012

- [NZS 4541:2013](#)

C/VM2 cites NZS 4541:2013 Automatic fire sprinkler systems from 19/12/2013

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

C/VM2 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

#### Australian Standards

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

C/VM2 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/VM2 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/VM2 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 \(Reconfirmed in 2018\)](#)

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

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- [AS 1530.4-2005](#)

C/VM2 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 4254.1-2012](#)

C/VM2 cites AS 4254.1-2012 Ductwork for air-handling systems in buildings. Part 1: Flexible duct from 19/12/2013

- [AS 4254.2-2012](#)

C/VM2 cites AS 4254.2-2012 Ductwork for air-handling systems in buildings. Part 2: Rigid duct from 19/12/2013

#### Other

- [BS 7273-4:2007](#)

C/VM2 cites BS 7273-4:2007 Code of practice for the operation of fire protection measures. Actuation of release mechanisms for doors from 10/04/2012

- [ISO 1182:2010](#)

C/VM2 cites ISO 1182:2010 Reaction to fire tests for products - Non-combustibility test from 10/04/2012

- [ISO 13571:2007](#)

C/VM2 cites ISO 13571:2007 Life-threatening components of fire - Guidelines for the estimation of time available for escape using fire data from 10/04/2012

- [ISO 13784-1:2002](#)

C/VM2 cites ISO 13784-1:2002 Reaction-to-fire tests for sandwich panel building systems - Test method for small rooms from 10/04/2012

- [ISO 13785-1:2002](#)

C/VM2 cites ISO 13785-1:2002 Reaction-to-fire tests for facades - Intermediate-scale test from 10/04/2012

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

C/VM2 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/VM2 cites ISO 5660-2:2002 Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Smoke production rate (dynamic measurement) from 10/04/2012

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

C/VM2 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/VM2 cites ISO 9705:1993 Fire tests - Full scale room test for surface products from 10/04/2012

- [NFPA 285:1998](#)

C/VM2 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

- [SFPE Engineering Guide, 2000](#)

C/VM2 cites SFPE Engineering Guide to predicting 1st and 2nd Degree Skin Burns from Thermal Radiation, 2000 from 10/04/2012

- [SR137](#)

C/VM2 cites SR137 Development of vertical channel test for regulatory control of combustible exterior cladding systems (2005) from 10/04/2012

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