

# Get to know C/VM2 Second edition

## INFORMATION ON THE NEW EDITION OF THE VERIFICATION METHOD

On 28 July 2025, MBIE published Verification Method C/VM2 Second edition.

If you have used C/VM2 in the past, you may see some changes in the new version.



### **New layout**

Since 2021, MBIE has been publishing new editions of the acceptable solutions and verification methods in an updated document format. The new format has a consistent layout and structure and should be easier to use in an electronic format. C/VM2 previously was written largely without specific headings or paragraph numbers. Consequently, headings and paragraph numbers in C/VM2 have changed and reorganised to fit in the new layout.



### **Building Product Specifications**

The verification method now includes references to the Building Product Specifications. References to the Building Product Specifications replace previous references to fire testing standards found in the document. Further information on the Building Product Specifications and what purposes it is used for are provided in the verification method.



### **Minor amendments that do not affect the level of performance**

Other minor amendments have been made to the verification method that do not affect the level of performance require but may assist in the interpretation and use of the document. This includes corrections for typos, grammar, formatting, cross-references, and punctuation. Portions have also been revised to reflect current practices for drafting the text and to simplify redundant or repetitive text.

We have provided the table on the follow pages to outline the differences between the First edition and Second edition including:

- A side-by-side index of the headings and paragraph numbers that have changed, and
- Comments on specific headings and paragraphs where the text has changed.

This table has been provided for information only. The wording and numbering in the verification method itself takes precedence.

The previous edition of G4/AS1 can still be used to demonstrate compliance with the Building Code until 31 July 2026.

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
1 Introduction and scope	Part 1. General	Heading revised to align with the structure of other AS/VM documents.
	1.1 Introduction	New heading to align with the structure of other AS/VM documents.
1.1 Purpose	<Removed from document>	First sentence re-written and relocated to Paragraph 1.1.3.1. Second sentence relocated to 1.2.1.1.
1.2 Scope	1.1.1 Scope of this document	Heading revised to align with other AS/VM documents.
1.2.1 <no title>	1.1.1.1	The scope of the document re-written using text from 1.1 Purpose and the comment box. Descriptions of out-of-scope buildings are relocated to Subsection 1.1.2. Comment box text revised to simplify the text.
	1.1.2 Items outside the scope of this document	New heading to align with the structure of other AS/VM documents
	1.1.2.1	New paragraph on items out of scope of the document using text previously in 1.2.1.
1.2.2 <no title>	1.1.2.2	Text and comment box replaced with text to align with Acceptable Solution C/AS2.
	1.1.3 Compliance pathway	New heading to align with the structure of other AS/VM documents
	1.1.3.1	Portion of text relocated from 1.1 with remaining text added to be consistent with other AS/VM documents.

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C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
	1.1.3.2	New paragraph on the compliance pathway added to be consistent with other AS/VM documents. Comment box text is based on text in the C/VM2 commentary. Comment box text revise to align with the compliance pathway. Additional hyperlink added to the MBIE guidance document on alternative solutions for fire safety design.
1.3 How to use this Verification Method	1.2 Using this verification method	Heading revised to align with other AS/VM documents.
	1.2.1 Knowledge of fire engineering modelling methods	New heading added based on the paragraph text in this subsection.
	1.2.1.1	Text on fire engineering modelling methods relocated from previous 1.1. Comment box added based on text previously found in the commentary document to C/VM2.
	1.2.1.2	Relocated from Part 2 as it relates to the use of the verification method.
	1.2.1.3	Relocated from Part 2 as it relates to the use of the verification method. Comment box added based on text in the C/VM2 commentary.
	1.2.2 Determining the importance level	New heading to describe the importance level.
	1.2.2.1	New paragraph to direct to clause A3 for the importance level. This text was previously found on the second page of the VM and also as a definition.
	1.2.3 Determining the fire safety requirements	Text relocated from 2.1. Heading revised to align with C/AS2.

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
1.3 [First paragraph]	1.2.3.1	Wording revised and combined with text from 2.1. Comment box added based on text from the C/VM2 commentary.
Table 1.1 Key features of design scenarios	Table 1.2.3.1 Summary of design scenarios	Title of table revised and relocated to sit alongside discussion of the fire scenarios. Portions of the table text re-written.
1.3 [Second and third paragraph]	1.2.3.2	Paragraphs revised to avoid duplication of text and to write in paragraph format. Additional hyperlink to information on the International Fire Engineering Guidelines added to the comment box. Comment box after the third paragraph relocated to Subsection 1.2.3.1 where ASET/RSET analysis is first presented.
Figure 1.1 The design process overview for C/VM2	Figure 1.2.3.2 Example design process for demonstrating compliance using this verification method	Title of figure revised to identify it as an example. Figure substantially revised to reduce the complexity and to show in a series of steps similar to other AS/VM documents. Notes added to the figure based on text previously in 1.3.
1.3 [Fourth paragraph]	<Paragraph removed from document>	
1.3 [Fifth paragraph]	Figure 1.2.3.2 notes	Paragraph redrafted as notes to the figure as the text does not form a requirement in the verification method.
1.3 [Sixth paragraph]	1.2.3.3	Rewritten to simplify the text.
1.4 Design scenarios: Building Code objectives and performance criteria	1.2.2 Determining the fire safety requirements	Relocated before the design process as part of Subsection 1.2.2.
1.4 [Paragraph text]	1.2.3.1	Revised and combined with text from 1.3.
	1.2.4 Determining occupant loads	Relocated from 3.1 Occupant numbers for consistency of structure with C/AS2.

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
	1.2.4.1	New paragraph added on determining the occupant load for each space. Paragraph text is from C/AS2 and the Commentary to C/VM2. Paragraph added to maintain consistent interpretation of occupant load regardless of compliance pathway.
	1.2.4.2	New paragraph added on determining the occupant load for the activities. Paragraph text is from C/AS2 and the Commentary to C/VM2. Paragraph added to maintain consistent interpretation of occupant load regardless of compliance pathway.
	Table 1.2.4.2 Occupant load factors	Relocated for consistency of structure with C/AS2. Heading revised to reflect that the values are not occupant load densities. Descriptions of activities revised where they align with C/AS2. "Occupant density" revised to "occupant load factor" since the values are no longer expressed as densities.
	1.2.4.3	New paragraph added on avoiding duplication to ensure occupant loads are not overly onerous. Paragraph text is from C/AS2 and the Commentary to C/VM2. Paragraph added to maintain consistent interpretation of occupant load regardless of compliance pathway.
	1.2.4.4	New paragraph added on fixed seating to explain the values in the occupant load factor table. Paragraph text is from C/AS2 and the Commentary to C/VM2. Paragraph added to maintain consistent interpretation of occupant load regardless of compliance pathway.

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
	1.2.4.5	New paragraph added for the term 'bed' in care and detention activities to explain the values in the occupant load factor table and maintain consistent interpretations of occupant load with C/AS2.
	1.2.4.6	Relocated from previous 3.1. The second sentence containing the 'note' reformatted as a comment box as it does not form part of the requirement.
	1.2.4.7	Relocated from previous 3.1.
	1.2.5 Building Product Specification	New heading to introduce the Building Product Specifications reference in the verification method.
	1.2.5.1	New paragraph to state the scope of the Building Product Specifications.
	1.2.5.2	New paragraph to outline the compliance pathway of building products.
1.5 Construction	1.2.5 Construction	
1.5 [Paragraph text]	1.2.5.1	
	1.2.6 Building Product Specifications	New subsection to introduce the Building Product Specifications
	1.2.6.1	New paragraph on the scope of the BPS.
	1.2.6.2	New paragraph on the compliance pathway using the BPS.
2 Rules and parameters for the design scenarios	Part 2. Rules and parameters for the design scenarios	
2.1 Applying the design scenarios	<Removed from document>	Redundant with Section 1.2 and removed from the document.
2.1 [First paragraph]	1.2.1.1	Word revised and combined with text in Part 1.
2.1 [Second paragraph, first sentence]	1.2.1.2	Relocated to 1.2.1 as it relates to the use of the verification method.

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
2.1 [Second paragraph, second sentence]	1.2.1.3	Relocated to 1.2.1 as it relates to the use of the verification method.
2.2 Fire modelling rules	<Heading removed from document>	Head and text removed as it is redundant with other text in Part 1 and Part 3.
2.2 [Paragraph text]	2.1.1.3	Re-written as a list relevant to the fire modelling rules for determining the ASET.
2.2.1 Fire modelling rules for life safety design	2.1.1 Fire modelling for life safety design	Heading combined with previous heading from 3.5.
	2.1.1 Overview	New heading describing the contents of the subsection. Content in this subsection contains relevant portions of previous 2.2 and 3.5.
3.5 [First and second paragraph]	2.1.1.1	Re-written to remove reference to the CF scenario as ASET/RSET can be used for multiple scenarios.
	2.1.1.2	New paragraph added to cross-reference RSET requirements in Part 3.
2.2.1 [First paragraph]	2.1.1.4	Comment box on the number of cases to check has been added using text previously published in the C/VM2 commentary.
2.2.1 [Second paragraph, first sentence]	2.1.3.1	Re-written into a list relevant to separations. “Unrated” changed to “non-fire rated” to maintain consistency in the document.
2.2.1 [Second paragraph, second sentence]	<Removed from document>	Redundant with new Paragraph 2.1.1.3.
2.2.1 [Second paragraph, third and fourth sentences]	2.1.3.2	Portions re-written to simplify the text.
2.2.1 [Third paragraph]	<Removed from document>	Text removed as it is redundant. Remaining text in 2.2.1 rewritten into paragraph format.
	2.1.2 Automatic detection and warning systems	New heading added based on the contents of the subsection.
2.2.1 a)	2.1.2.1	

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	2.1.3 Fire separations and smoke separations	New heading added based on the contents of the subsection. Paragraphs in this subsection are from the second paragraph in the previous 2.2.1 and from 2.2.1 k) and l).
	2.1.4 Doors	New heading added based on the contents of the subsection. Relocated to after the requirements for fire separations and smoke separations to maintain consistent order and logic.
	2.1.4.1	New paragraph to reference the Building Product Specifications for fire doors and smoke control doors.
2.2.1 b)	2.1.4.2	First sentence amended as a consequence of referencing the Building Product Specifications. Comment box added based on text from the C/VM2 commentary.
2.2.1 c)	2.1.4.3	Re-written to simplify the text.
2.2.1 d)	2.1.4.4	
2.2.1 e)	2.1.4.5	
2.2.1 f)	2.1.4.6	Comment box added based on text from the C/VM2 commentary.
	2.1.5 Ventilation and leakage areas	New heading added based on the contents of the subsection.
2.2.1 g) [First and second sentence]	2.1.5.3	Formatted into a list.
2.2.1 g) [Third sentence]	2.1.5.4	Comment box added based on text from the C/VM2 commentary.
2.2.1 h)	2.1.5.3(b)	Text combined with 2.1.5.3 to remove redundant cross references

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2.2.1 i)	2.1.5.5	List re-written to simply wording for fire separations and smoke separations. Amended to reference the Building Product Specifications for smoke control doors.
2.2.1 j)	2.1.1.5	Relocated to the overview for this section.
2.2.1 k)	2.1.3.3	Amended to reference the Building Product Specifications for smoke separations.
2.2.1 l)	2.1.3.4	Amended to reference the Building Product Specifications for smoke separations.
2.2.1 m) [First sentence]	2.1.5.2	Comment box added based on text in the C/VM2 commentary.
2.2.1 m) [Second sentence]	2.1.5.1	
	2.1.6 Tenability criteria	New heading added based on the contents of the subsection. This subsection has been re-organised to contain relevant requirements from the previous 2.2.1 and 3.5.
2.2.1 n)	2.1.6.4	
2.2.1 o)	2.1.6.3	
2.2.1 p)	2.1.6.6	
2.2.1 [Last paragraph]	2.1.6.7	
2.2.2 Fire modelling rules for resistance of fire separations and structural design	2.2 Fire modelling for structural design and to determine the resistance of fire separations	
	2.2.1 Overview	
2.2.2 a)	2.2.1.1	Re-written into a list format and to reference the other requirements in the section.
	2.2.1.3	New paragraph to state the requirements in the burnout design fire.
	2.2.3 Car parking areas	New heading based on the content of the subsection.
2.2.2 b)	2.2.3.1	
2.2.2 c)	2.2.3.2	
2.2.2 d)	2.2.3.3	

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	2.2.4 Ventilation and effective openings	New heading based on the content of the subsection.
2.2.2 e) i)	2.2.4.1	
2.2.2. e) ii)	2.2.4.2	
2.2.2 e) iii)	2.2.4.3	
2.3 Design fire characteristics	2.3 Design fires	
	2.3.1 Overview	
2.3 [First paragraph]	2.3.1.1	Re-written into paragraph format. Heat of combustion added to the list of parameters as it is specified for pre-flashover design fires and referred to in the previous comment box in 2.4.
2.3 [Second paragraph]	2.3.1.2	
2.3 [Third paragraph]	2.3.1.3	Comment box added based on text from the Commentary for C/VM2.
2.3.1 Pre-flashover design fires	2.3.2 Fire growth phase	Heading revised to be more general as it describes fire growth even when flashover is not achieved.
2.3.1 [First sentence]	2.3.2.1	
2.3.1 [Second sentence]	2.3.2.2	Re-drafted as a list
2.3.1 [Second paragraph]	2.3.2.2(d)	Portion of the text drafted as a comment box beneath 2.3.2.2.
Table 2.1 Pre-flashover design fire characteristics	Table 2.3.2.1 Pre-flashover design fire characteristics	First entry for “all building uses” revised to reflect the other uses in the table.
2.3.2 Post-flashover design fires	2.3.3 Fully developed fire and the duration of the fire	Heading revised to reflect the contents of the subsection. This subsection and the applicable FLEDs are also used for fires that do not reach flashover.
	2.3.3.1	New paragraph to introduce the subsection and the cases.
2.3.2 [First paragraph]	2.3.3.2	
2.3.2 [Second paragraph]	<Removed from document>	Redundant with text in each of the cases.
2.3.3 Modelling post-flashover fires	<Heading removed>	

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2.3.3 [First paragraph]	<Removed from document>	Redundant with text in 2.3.2.2(b) and with text in each of the cases.
2.3.3 [Second paragraph]	Comment box after 2.3.2.2	This text is largely redundant with the procedure stated in Section 2.2 and Subsection 2.3.4. Text has been redrafted as comment box with the relevant cross-references.
2.3.3 [Third paragraph a) and b)]	2.3.3.4	Additional reference added to the cases for determining when post-flashover yields apply.
2.3.3 [Third paragraph c)]	2.3.3.5	Re-drafted to include text previously in Step 3.
2.3.3 [Step 1]	<Removed from document>	Redundant with 2.3.2.2
2.3.3 [Step 2]	Comment box after 2.3.3.1	The text has been redrafted as part of a comment box as it is not always necessary to re-run a fire model as described in this step.
2.3.3 [Cases 1 to 5]	Table 2.3.2.3: Maximum heat release rate for different cases	Cases summarised into a table to describe the maximum heat release rate to be used regardless of whether the fire reaches flashover or not. Comment box added after the table based on text previously found in the Commentary to C/VM2.
2.3.3 [Step 2, Second last paragraph regarding ventilation limit]	2.3.3.3	
2.3.3 [Step 2, Last paragraph regarding $T_{UL}$ ]	<Removed from document>	Redundant. Definition of $T_{UL}$ stated in 2.3.3.2.
2.3.3 [Step 3]	2.3.3.5	Combined with text previously found in 2.3.3 c) and 2.4.
Table 2.2 Design FLEDs for use in modelling fires in C/VM2	Table 2.3.3.5A: Design fire load energy densities (FLEDs) for use in fire modelling	Title revised. Table entries revised to remove repetitive 1, 2, 3s.
2.4 Full burnout design fires	2.3.4 Full burnout design fire	
2.4 [Coment box at start of section]	<Removed from document>	This comment box is redundant with the introduction to the section in 2.3.1.1.

## Information on the second edition

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2.4 [First paragraph, first sentence]	2.3.4.1	
2.4 [First paragraph, second sentence]	2.2.2.2	This is relocated to the section on the rules as it does not describe the design fire. Paragraph amended to reference the Building Product Specifications.
2.4 [Second paragraph]	2.3.4.2	
2.4.1 Modifications to the design FLED	<Heading removed>	Relocated to 2.3.3 to sit alongside the Table 2.3.3.5A for FLED values. Both tables are referenced in 2.3.3 and 2.3.4.
2.4.1 [First paragraph]	2.3.4.3	
2.4.1 [Second paragraph]	2.3.3.5	Relocated to 2.3.3 and combined with other text previously found in 2.3.3. Full burnout is not applicable for assessing life safety.
Table 2.3 F <sub>m</sub> factors to be applied for FLED	Table 2.3.3.5B: Modification factors (F <sub>m</sub> ) to be applied to the FLED	
2.4.2 Openings for full burnout fires	<Heading removed>	
2.4.2 [First paragraph]	2.2.4.4	Relocated to 2.2.3 as it describes the ventilation parameters.
2.4.3 Structural fire severity for interconnected floors	<Heading removed>	
2.4.3 [First paragraph]	2.3.4.4	
2.4.4 Time equivalence formula	<Heading removed>	
2.4.4	2.3.4.5	Re-drafted to simplify the text.
Equation 2.1	Equation 2.1	
Equation 2.2	Equation 2.2	
2.4.4 [k <sub>m</sub> value]	2.3.4.6 Equation 2.3	Re-drafted into paragraph format.
2.4.4 [k <sub>b</sub> value]	2.3.4.7	
Table 2.4 Conversion factor k <sub>b</sub> for various lining materials	Table 2.3.4.7: Conversion factor k <sub>b</sub> for various lining materials	
Table 2.4 note (ii)	Equation 2.4	Table note redrafted as an equation with text added to 2.3.4.7.

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
2.5 Equivalent time of exposure	2.2.2 Equivalent time of exposure	Relocated to Section 2.2 as part of the modelling rules.
2.5 [First paragraph]	2.2.2.1	
2.5 [Second paragraph]	2.2.2.1(d)	Combined into the list in 2.2.2.1.
3 Movement of people	Part 3. Movement of people	
3.1 Occupant numbers	1.2.4 Determining occupant loads	Relocated to Part 1 for consistency of structure with C/AS2.
3.1 [First paragraph]	1.2.4.2	Relocated for consistency of structure with C/AS2.
3.1 [Second paragraph]	1.2.4.6	Relocated for consistency of structure with C/AS2.
3.1 [Third paragraph]	1.2.4.7	Relocated for consistency of structure with C/AS2.
Table 3.1 Occupant densities	Table 1.2.4.2 Occupant load factors	Relocated for consistency of structure with C/AS2.
3.2 Required safe egress time (RSET)	3.1 Required safe egress time (RSET)	
	3.1.1 Overview	New heading describing the contents of this section.
3.2 [First paragraph]	3.1.1.1	
3.2 [Second paragraph]	3.1.1.2	Sentence re-drafted
Equation 3.1	Equation 3.1	
3.2 [Third paragraph]	<Paragraph removed from document>	Reference to Paragraphs added to Equation 1 and no longer needed as separate paragraph.
3.2 [Fourth paragraph]	3.1.1.3	Last sentence revised to reference the applicable variables from Equation 3.1.
	3.1.1.4	New paragraph to cross-reference Part 1 for determining occupant loads.
	3.1.1.5	New paragraph to cross-reference additional requirements in this part.
3.2.1 Detection time	3.2 Detection time	
	3.2.1 Fire alarm system	New heading added to contain requirements from previous 3.2.1 and 3.4.

## Information on the second edition

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3.2.1 [First paragraph, First sentence]	3.2.1.2	Re-drafted into paragraph format as a list. Comment box added based on text previously found in the C/VM2 commentary document.
	3.2.2 Automatic detection	New heading added based on the contents of the subsection.
3.2.1 [First paragraph, second sentence]	3.2.2.1	Re-drafted into paragraph format as a list.
3.2.1 [Second paragraph]	3.2.2.2	Re-drafted to simplify the text.
Table 3.2 Detector criteria	Table 3.2.2.2: Criteria for detector and sprinkler activation	Table heading revised to be more descriptive of its content. Description of smoke detectors revised. Table note for project beam detection replaced with Comment box based on text previously found in the C/VM2 Commentary.
3.2.1.1 Smoke detection optical density criteria for spot detectors	<Heading removed from document>	
3.2.1.1 [First paragraph]	<Paragraph removed from document>	Description of smoke detectors added into table and paragraph removed from the document as it is redundant with 3.2.2.2.
3.2.1.2 Criteria for very high sensitivity air sampling smoke detectors	<Heading removed from document>	
3.2.1.2 [First paragraph]	3.2.2.3	
3.2.2 Notification time	3.3 Notification time	
	3.3.1 Overview	New heading added to maintain the layout of the document.
3.2.2 [First paragraph]	3.3.1.1	
3.2.2 [Second paragraph]	3.3.1.2	
3.2.3 Pre-travel activity time	3.4 Pre-travel activity time	
	3.4.1 Overview	New heading added to maintain the layout of the document.
3.2.3 [First paragraph]	3.4.1.1	

## Information on the second edition

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Table 3.3 Pre-travel activity time	Table 3.4.1.1 Pre-travel activity time	Travel re-organised into columns to simplify its use. Comment box on the pre-travel activity times added based on text previously found in the C/VM2 commentary to assist with interpretation of the table.
3.2.4 Travel time	3.5 Travel time	
	3.5.1 Overview	New heading added to maintain the layout of the document.
3.2.4 [First paragraph]	3.5.1.1	Re-written into paragraph format to cross reference the applicable sections.
3.2.4 [Second paragraph]	3.5.1.2	
	3.5.2 Time to reach a doorway	New heading added based on the contents of the subsection.
3.2.4 [Third paragraph]	3.5.2.2	Re-drafted to simplify the text.
Equation 3.2	Equation 3.4	
3.2.4 [Fourth paragraph]	3.5.2.1	Relocated to start of subsection to simplify the calculation procedure.
Equation 3.3	Equation 3.3	
3.2.4 [Fifth paragraph]	3.5.2.3	b) re-drafted into a sentence.
3.2.4 [Sixth paragraph]	3.5.2.4	Re-drafted into paragraph format.
Table 3.4 Maximum flow rates for use in equation 3.2 for horizontal and vertical travel speeds	Table 3.5.2.4: Vertical travel speeds	Horizontal travel speeds removed from the table as these are provided in Equation 3.4.
3.2.5 Time if flow governs	3.5.3 Time if flow governs	
3.2.5 [First paragraph]	3.5.3.1	Paragraph revised to state how the flow time is calculated. Cross reference added to the distribution of occupants for multiple exits. Comment box relocated after the equation.
Equation 3.4	Equation 3.5	Descriptions for a and k added to the explanation of the equation.
3.2.5 [Second paragraph]	3.5.3.2	
Table 3.5 Boundary layer width for calculating the effective width of an exit component	Table 3.5.3.2: Boundary layer width for calculating the effective width of an exit component	

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3.2.5 [Third paragraph]	3.5.3.3	Comment box added based on text previously found in the C/VM2 commentary and based on the comment previously beneath 3.2.6.
3.2.6 Direction of opening	<Heading removed>	
3.2.6 [First paragraph]	3.5.1.3	Paragraph relocated as it applies regardless of how travel time is determined. Comment box split up with the portion relevant to the flow time relocated to 3.5.3.3.
3.2.7 Exit doors	<Heading removed>	
3.2.7 [First paragraph]	3.5.1.4	Paragraph relocated as it applies regardless of how travel time is determined.
3.2.7 [Second paragraph]		
3.3 Requirements for delayed evacuation strategies	3.6 Delayed evacuation strategies	
	3.6.1 Places of safety	
3.3 [First paragraph]	3.6.1.1	
3.4 Alerting people with alarm systems	<Heading removed>	Paragraph text combined in Section 3.2 for the detection time.
3.4 [First paragraph]	3.2.1.1	Relocated to the section on detection time and re-drafted to simplify the text.
	3.2.3 Manual activation of an alarm	Relocated to subsection on detection time as the most relevant location in the document.
3.4 [Second paragraph]	3.2.3.1	First sentence re-drafted to simplify text on occupant loads.
3.4 [Third paragraph]	3.2.3.2	
3.4 [Fourth paragraph]	Equation 3.2	Re-written into paragraph format with labelled equations. Comment box added based on text previously found in the C/VM2 commentary.
3.4.1 Small ancillary spaces	<Heading removed from document>	Combined with section on manual fire alarms as the most relevant portion of the document.

## Information on the second edition

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3.4.1 [First paragraph]	3.2.3.3	
3.4.1 [Second paragraph]	3.2.3.4	
3.4.1 [Third paragraph]	3.2.3.5	Re-drafted to cross-reference other subsections.
3.4.1 [Fourth paragraph]	3.2.3.6	
3.5 Fire modelling to determine ASET	2.1.1 Fire modelling for life safety design	Heading combined with previous heading from 2.2.1. Relocated to Part 2 as it relates to fire modelling.
3.5 [First and second paragraph]	2.1.1.1	Re-written to remove reference to the CF scenario as ASET/RSET can be used for multiple scenarios.
3.5 [Third paragraph]	2.1.6.1	Re-written to align with the text and order from the Building Code clause C4.3.
3.5 [Fourth paragraph]	2.1.6.2	Re-written to align with the text in Building Code clause C4.4.
3.5 [Fifth paragraph]	2.1.1.3	Relocated above the description of the ASET. Written into paragraph format as a list.
3.5 [Sixth paragraph]	2.1.6.5	
3.6 Exposure to radiation along egress routes	3.7 Exposure to radiation along escape routes	
3.6.1 General	3.7.1 Overview	
3.6.1 [First paragraph]	3.7.1.1	
3.6.1 [Second paragraph]	3.7.1.2	Amended to remove reference to standards as the definition of fire resisting glazing includes reference to the Building Product Specifications.
3.6.2 Time to onset of pain	3.7.2 Time to onset of pain	
3.6.2 [First paragraph]	3.7.2.1	
Equation 3.5	Equation 3.6	
3.6.3 Radiation from a window to an egressing occupant	3.7.3 Radiation from a window to an egressing occupant	
3.6.3 [First paragraph]	3.7.3.1	
Equation 3.6	Equation 3.7	
3.6.3 [Second paragraph]	3.7.3.2	
3.6.3 [Third paragraph]	3.7.3.3	
3.6.4 Exposure time	3.7.4 Exposure time	

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
3.6.4 [First paragraph]	3.7.4.1	
Equation 3.7	Equation 3.8	
3.6.5 Radiation from a burning object to an egressing occupant	3.7.5 Radiation from a burning object to an egressing occupant	
3.6.5 [First paragraph]	3.7.5.1	
Equation 3.8	Equation 3.9	
3.6.5 [Second paragraph]	3.7.5.2	
4 Design scenarios	Part 4. Design scenarios	
4.1 Design scenario (BE): Fire blocks exit	4.1 BE: Fire blocks exit	Heading revised to remove repetition of “design scenario”
Table at start of scenario BE	Table at start of scenario BE	Headings added to columns in the table. Third row revised to simplify the text and remove repetition of the code clause.
[4.1] Scenario description	4.1.1 Scenario description	
[4.1] Scenario description [First paragraph]	4.1.1.1	Paragraph re-written to simplify the text. Reference to ASET removed as computational analysis is not required for the scenario.
[4.1] Scenario description [Second paragraph]	4.1.1.2	
[4.1] Scenario description [Third paragraph]	4.1.1.3	Exception re-written into paragraph format as list. Comment box added based on text from the C/VM2 Commentary.
[4.1] Scenario description [Fourth paragraph]	4.1.1.4	Relocated to part of the method as it describes what the design must include.
[4.1] Scenario description [Fifth paragraph, First and second sentences]	4.1.1.5	
[4.1] Scenario description [Fifth paragraph, Third sentence]	<Removed from document>	Reference to the building use and challenging fire scenario removed as it is not necessary to demonstrate compliance for this scenario.
[4.1] Scenario description [Sixth paragraph]	4.1.1.5	Re-written into paragraph format with a single list for all options.

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
[4.1] Scenario description [Seventh paragraph]	4.1.1.6	Comment box relocated to after 4.1.1.6 and re-written to simplify text.
[4.1] Method	4.1.2 Method	
[4.1] Method [First paragraph]	4.1.2.1	
[4.1] Method [Second paragraph]	4.1.2.2	
4.2 Design scenario (UT): Fire in normally unoccupied room threatening occupants of other rooms	4.2 UT: Fire in normally unoccupied room threatening occupants of other rooms	Heading revised to remove repetition of “design scenario”.
Table at start of scenario UT	Table at start of scenario UT	Headings added to columns in the table. Third row revised to simplify the text and remove repetition of the code clause.
[4.2] Scenario description	4.2.1 Scenario description	
[4.2] Scenario description [First paragraph]	4.2.1.2	
[4.2] Scenario description [Second paragraph]	4.2.1.3	Re-written into sentence format. Comment box added based on text previously found in the C/VM2 commentary.
[4.2] Scenario description [Third paragraph]	4.2.1.1	Revised to simplify the text.
[4.2] Scenario description [Fourth paragraph]	4.2.1.4	
[4.2] Scenario description [Fifth paragraph]	4.2.1.5	
[4.2] Method	4.2.2 Method	
[4.2] Method [a) and b)]	4.2.2.1	Rewritten into sentence format.
[4.2] Method i)	4.2.2.2	
[4.2] Method ii)	4.2.2.3	
[4.2] Method ii)A)	4.2.2.3(a)	
[4.2] Method ii)B)	4.2.2.3(b)	Comment box added based on text previously found in the C/VM2 commentary.
4.3 Design scenario (CS): Fire starts in a concealed space	4.3 CS: Fire starts in a concealed space	Heading revised to remove repetition of “design scenario”

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
Table at start of scenario CS	Table at start of scenario CS	Headings added to columns in the table. Third row revised to simplify the text and remove repetition of the code clause.
[4.3] Scenario description	4.3.1 Scenario description	
[4.3] Scenario description [First paragraph]	4.3.1.2	Formatted into a list. Comment box added based on text previously found within the C/VM2 commentary.
[4.3] Scenario description [Second paragraph]	4.3.1.1	Re-drafted to simplify the text.
[4.3] Scenario description [Third paragraph]	4.3.1.3	
[4.3] Method	4.3.2 Method	
[4.3] Method [First and second paragraph]	4.3.2.1	Re-drafted to remove repetition and simplify the text
[4.3] Method [Third paragraph]	4.3.2.2	
4.4 Design scenario (SF): Smouldering fire	4.4 SF: Smouldering fire	Heading revised to remove repetition of “design scenario”
Table at start of scenario SF	Table at start of scenario SF	Headings added to columns in the table. Third row revised to simplify the text and remove repetition of the code clause.
[4.4] Scenario description	4.4.1 Scenario description	
[4.4] Scenario description [First paragraph]	4.4.1.1	Re-drafted to align with other scenario descriptions.
[4.4] Scenario description [Second paragraph]	4.4.1.2	
[4.4] Method	4.4.2 Method	
[4.4] Method [Paragraph text]	4.4.2.1	Re-drafted to align with the method in other scenarios. Amended to reference NZS 4512 for fire alarm systems. Part 3 of C/VM2 already requires fire alarm systems to comply with NZS 4512. Comment box added based on text previously located in the C/VM2 commentary.
4.5 Design scenario (HS): Horizontal fire spread	4.5 HS: Horizontal fire spread	Heading revised to remove repetition of “design scenario”

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
Table at start of scenario HS	Table at start of scenario HS	Headings added to columns in the table. Third row revised to simplify the text and remove repetition of the code clause.
[4.5] Scenario description	4.5.1 Scenario description	
[4.5] Scenario description [First and second paragraph]	4.5.1.1	Re-drafted to combined the text into one paragraph.
	4.5.1.2	New paragraph to state the code clauses for compliance.
[4.5] Scenario description [Third paragraph]	4.5.1.3	Re-drafted into paragraph format as a list.
[4.5] Scenario description [Fourth paragraph]	4.5.1.9	Re-drafted into paragraph format. Re-organised to provide a better flow of the paragraphs.
[4.5] Scenario description [Fifth paragraph]	4.5.1.7	
[4.5] Scenario description [Sixth paragraph]	4.5.1.8	
[4.5] Scenario description [Seventh paragraph]	4.5.1.5	Relocated to the method as it outlines how compliance can be achieved.
[4.5] Scenario description [Eighth paragraph]	4.5.1.10	Relocated to the method as it outlines how clause C3.6 can be achieved.
[4.5] Design fire	<Heading removed>	Heading removed for consistency with other scenarios.
[4.5] Design fire [First paragraph]	4.5.1.5	Relocated earlier in the section for consistency with other design scenarios.
[4.5] Design fire [Second paragraph]	4.5.1.5(c)	Redrafted as part of a list.
[4.5] Method A Calculation	4.5.2 Method for horizontal fire spread from external walls	Heading revised to include all methods for horizontal fire spread from external walls.
	4.5.2.1	New paragraph to summarise all the methods can be used to demonstrate compliance.
[4.5] Method A Calculation [First paragraph]	4.5.2.3(a)	Redrafted into paragraph format as a list.
[4.5] Method A Calculation [First paragraph a) and b)\	4.5.2.3(b)	Redrafted as part of a list

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
[4.5] Method A Calculation [Second paragraph]	4.5.2.3(f)	Re-organised to maintain the flow of the requirements.
[4.5] Method A Calculation [Third paragraph]	4.5.2.3(e)	
[4.5] Method A Calculation [Fourth paragraph]	4.5.2.3(c)	
[4.5] Method A Calculation [Fifth paragraph]	4.5.2.3(d)	
Method B Tabulated values	<Heading removed>	
[4.5] Method B Tabulated values [First paragraph]	4.5.2.1(c)	
[4.5] Method B Tabulated values [Second paragraph]	<Removed from document>	The use of the tables is already stated in the Appendix C. The current text also is confusing when considering the relevant provisions for small openings and fire resisting glazing.
[4.5] Method B Tabulated values [Third paragraph]	4.5.2.2(a)	
[4.5] Method B Tabulated values [Fourth paragraph]	4.5.2.2(b)	
[4.5] Horizontal fire spread from roofs	4.5.3 Method for horizontal fire spread from roofs	
[4.5] Horizontal fire spread from roofs [First paragraph]	4.5.3.1	
[4.5] Canopies	4.5.4 Method for horizontal fire spread from canopies	
[4.5] Canopies [First paragraph]	4.5.4.1	
[4.5] External wall cladding materials	4.5.5 Method for external wall cladding materials	
	4.5.5.1	New paragraph to reference the Building Product Specifications.
[4.5] External wall cladding materials [First paragraph]	4.5.5.2(a)	Amended to reference the Building Product Specifications
[4.5] External wall cladding materials [Second paragraph]	4.5.5.2(b)	Amended to reference the Building Product Specifications
Table 4.1 Classification of cladding materials	<Removed from document>	Removed from document and incorporated into the Building Product Specifications.
4.6 Design scenario (VS): External vertical fire spread	4.6 VS: External vertical fire spread	Heading revised to remove repetition of “design scenario”

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
Table at start of scenario VS	Table at start of scenario VS	Headings added to columns in the table. Third row revised to simplify the text and remove repetition of the code clause.
Scenario description	4.6.1 Scenario description	
	4.6.1.1	New paragraph to introduce the design scenario.
[4.6] Scenario description [First paragraph]	4.6.1.2	
[4.6] Scenario description [Second paragraph]	4.6.1.3	Re-drafted to include details of when the methods apply.
[4.6] Part A: External vertical fire spread over façade materials	4.6.2 Method for external vertical fire spread over façade materials	
[4.6] Part A [First paragraph]	4.6.2.1	
[4.6] Part A [Second paragraph]	4.6.2.2(a)	Redrafted into a list.
[4.6] Part A [Third paragraph]	4.6.2.2(b)	Redrafted into a list.
[4.6] Part A [Fourth paragraph]	4.6.2.3	
[4.6] Part A [Fifth paragraph]	4.6.2.4	
[4.6 Part A] Method	<Heading removed>	
[4.6 Part A] Method [First paragraph]	4.6.2.5	Amended to reference the Building Product Specifications.
[4.6 Part A] Method [Second paragraph]	4.6.2.6	
[4.6 Part A] Method [Third paragraph]	4.6.2.7	
[4.6] Part B: External vertical fire spread via openings and unprotected areas	4.6.3 Method for external vertical fire spread via openings and unprotected areas	
[4.6] Part B [First paragraph]	4.6.3.1	
[4.6] Part B [Second paragraph]	<Removed from document>	This text is redundant with text in 4.6.3.3(b)(ii)
[4.6] Part B [Third paragraph]	4.6.3.2	
[4.6] Part B [Fourth paragraph a)]	4.6.3.3(b)	
[4.6] Part B [Fourth paragraph b)]	<Removed from document>	Redundant with text in 4.6.3.3(a)
[4.6 Part B] Method	<Heading removed>	
[4.6 Part B] Method [First paragraph]	4.6.3.3	Redrafted as a list
[4.6] Part C: Lower roof exposure	4.6.4 Method for lower roof exposure	
[4.6] Part C [First paragraph]	4.6.4.1	

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
[4.6] Part C [Second paragraph]	4.6.4.2	
[4.6] Part C [Third paragraph]	4.6.4.3	
[4.6] Part C [Fourth paragraph]	4.6.4.4	
[4.6] Part C [Fifth paragraph]	4.6.4.5	Redrafted to incorporate relevant text from previous Part C Method.
[4.6 Part C] Method	<Heading removed>	
[4.6 Part C] Method [First paragraph]	<Removed from document>	Redundant with Paragraph 4.6.4.5. Relevant wording added to 4.6.4.5.
4.7 Design scenario (IS): Rapid fire spread involving internal surface linings	4.7 IS: Rapid fire spread involving internal surface linings	Heading revised to remove repetition of “design scenario”
Table at start of scenario IS	Table at start of scenario IS	Headings added to columns in the table. Third row revised to simplify the text and remove repetition of the code clause.
Scenario description	4.7.1 Scenario description	
	4.7.1.1	New paragraph added to introduce the scenario based on text previously found within the C/VM2 commentary.
[4.7] Scenario description [First paragraph]	4.7.1.2	
[4.7] Scenario description [Second paragraph]	4.7.1.3	Additional text added to align with C/AS2 for traditional Māori construction materials.
[4.7] Scenario description [Third paragraph]	4.7.1.4	
[4.7] Scenario description [Fourth paragraph, first sentence]	4.7.1.5	
[4.7] Scenario description [Fourth paragraph, second sentence] [Fifth paragraph] [Sixth paragraph] [Seventh paragraph] [Eighth paragraph] [Ninth paragraph] [Tenth paragraph] [Eleventh paragraph]	<Removed from document>	Paragraphs removed from the document as a consequence of publishing the Building Product Specifications. The relevant requirements for fire testing have been relocated to the Building Product Specifications.

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
[4.7] Method	4.7.2 Method	Comment box added to the end of the subsection based on text previously found in the C/VM2 Commentary.
	4.7.2.1	New paragraph to include the Group Number requirements from clause C3.4(a).
	Table 4.7.2.1: Maximum permitted Group Number for internal surface finishes	Group Number requirements from clause C3.4(a)
[4.7] Method [First paragraph]	4.7.2.2	Paragraph revised to reference the Building Product Specifications. The relevant fire test standards have been relocated to the Building Product Specifications.
	4.7.2.3	New paragraph to include the radiant heat flux requirements from clause C3.4(b)
	Table 4.7.2.3: Minimum required critical radiant flux for flooring (kW/m <sup>2</sup> )	Group Number requirements from clause C3.4(b)
[4.7] Method [Second paragraph]	4.7.2.4	Paragraph revised to reference the Building Product Specifications. The relevant fire test standards have been relocated to the Building Product Specifications.
	4.7.2.5	New paragraph to include the flammability index requirements for occupied spaces.
	4.7.2.6	New paragraph to include the flammability index requirements for exitways and crowd spaces.
[4.7] Method [Third paragraph]	4.7.2.5	Paragraph revised to reference the Building Product Specifications. The relevant fire test standards have been relocated to the Building Product Specifications.
4.8 Design scenario (FO): Firefighting operations	4.8 FO: Firefighting operations	Heading revised to remove repetition of “design scenario”

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
Table at start of scenario FO	Table at start of scenario FO	Headings added to columns in the table. Third row revised to simplify the text and remove repetition of the code clause.
[4.8] Scenario description	4.8.1 Scenario description	
[4.8] Scenario description [First paragraph]	4.8.1.1	
	4.8.1.2	New paragraph added to state the full list of performance criteria in the Building Code clauses that must be complied with.
	4.8.2 Method	Heading added to maintain consistency with other design scenarios.
	4.8.2.1	New paragraph to state more clearly how to comply with the scenario. This paragraph is based on text in the C/VM2 commentary document and in the table at the start of the scenario.
[4.8] Scenario description [Second paragraph]	4.8.2.2(a)	
[4.8] Scenario description [Third paragraph]	4.8.2.2(b)	
[4.8] Scenario description [Fourth paragraph]	4.8.2.2(c)	
[4.8] Scenario description [Fifth paragraph]	4.8.2.2(d)	Comment box added based on text from the Commentary to C/VM2.
[4.8] Scenario description [Sixth paragraph]	4.8.2.3	
[4.8] Scenario description [Seventh paragraph]	4.8.2.4	
[4.8] A. For buildings with an escape height > 10 m:	4.8.2.5	
[4.8] A a)	4.8.2.5(a)	
[4.8] A b)	4.8.2.5(b)	Comment box relocated after 4.8.2.6 and combined with similar comment box.
[4.8] A c)	4.8.2.5(c)	

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
[4.8] B. For buildings with an escape height ≤ 10 m:	4.8.2.6	
[4.8] B a)	4.8.2.6(a)	
[4.8] B b)	4.8.2.6(b)	
[4.8] B c)	4.8.2.6(c)	
[4.8] Intermediate floors - additional requirements	4.8.2.7	
[4.8] Intermediate floors - additional requirements [Second paragraph]	4.8.2.8	
4.9 Design scenario (CF): Challenging fire	4.9 CF: Challenging fire	Heading revised to remove repetition of “design scenario”
Table at start of scenario CF	Table at start of scenario CF	Headings added to columns in the table. Third row revised to simplify the text and remove repetition of the code clause.
[4.9] Scenario description	4.9.1 Scenario description	
[4.9] Scenario description [First paragraph]	4.9.1.1	
[4.9] Scenario description [Second paragraph]	4.9.1.2	
[4.9] Scenario description [Third paragraph, First sentence]	4.9.1.3	
[4.9] Scenario description [Third paragraph, second sentence]	4.9.1.4	
[4.9] Scenario description [Third paragraph, third sentence]	4.9.1.5	
[4.9] Scenario description [Third paragraph, fourth sentence]	4.9.1.7	
[4.9] Scenario description [Fourth paragraph]	4.9.1.8	
[4.9] Scenario description [Fifth paragraph a)]	4.9.1.6	
[4.9] Scenario description [Fifth paragraph b)]	4.9.1.9	Re-drafted into paragraph format.
[4.9] Scenario description [Fifth paragraph c)]	4.9.1.10	Re-drafted into paragraph format.
[4.9] Method	4.9.2 Method	
[4.9] Method [First paragraph]	4.9.2.1	Re-drafted into list.

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
[4.9] Method [Second paragraph]	4.9.2.2	Re-drafted into a list.
[4.9] Method [Third paragraph]	4.9.2.3	Re-drafted into paragraph format.
4.10 Design scenario (RC): Robustness check	4.10 RC: Robustness check	Heading revised to remove repetition of “design scenario”
Table at start of scenario RC	Table at start of scenario RC	Headings added to columns in the table. Third row revised to simplify the text and remove repetition of the code clause.
[4.10] Scenario description	4.10.1 Scenario description	
	4.10.1.1	New paragraph to introduce the scenario based on text previously in the Commentary to C/VM2.
[4.10] Scenario description [First paragraph]	4.10.1.2	
[4.10] Scenario description [Second paragraph]	4.10.1.3	
[4.10] Scenario description [Third paragraph]	4.10.1.4	
[4.10] Scenario description [Fourth paragraph]	4.10.2.7(b)	Relocated to the method as part of assessing tenability.
[4.10] Method	4.10.2	
[4.10] Method [First paragraph]	4.10.2.1	Re-drafted as a list.
[4.10] Method [Second paragraph]	4.10.2.2	
[4.10] Robustness check of vertical escape routes	<Heading removed>	
[4.10] Robustness check of vertical escape routes [First paragraph]	4.10.2.3	Formatted into a list.
[4.10] Robustness check of vertical escape routes [Second paragraph]	4.10.2.4	
Appendix A (normative): Establishing Group Numbers for lining materials	<Removed from document>	Relevant text on determining Group Numbers relocated to the Building Product Specifications.
Appendix B (normative): Critical Radiant Flux values for some flooring materials	<Removed from document>	Relevant text on flooring relocated to the Building Product Specifications

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
	Appendix A. References	References relocated to a new appendix.
	Appendix B. Definitions	Definitions relocated to a new appendix.
Definition entries for: Combustible Limited combustible Non-combustible	Definition entries for: Combustible Limited combustible Non-combustible	Revised to reference the Building Product Specifications
Appendix C Methodology for design scenario HS: Horizontal fire spread (Tabular Data)	Appendix C. Design scenario HS horizontal fire spread tables	Appendix heading revised
C1.1 Horizontal fire spread from external walls	C.1 Horizontal fire spread from external walls	
	C.1.1 Overview	New heading added
C1.1.1 <no title>	C.1.1.1	
Intersection angle	<Heading removed>	
C1.1.2 <no title>	C.1.1.2	
C1.1.3 [First paragraph]	C.1.1.3	
C1.1.3 [Second paragraph]	C.1.1.3(d)	Added to the list of intersection angles and wording revised.
Notional boundary firecells on the same property	<Heading removed>	
C1.1.4 <no title>	C.1.1.4	
Figure C1 Measuring intersection angle in external walls adjacent to a relevant boundary	Figure C.1.1.2	
C2.1 Method 1 - Small openings and fire resisting glazing	C.2 Method 1 – Small openings and fire resisting glazing	
	C.2.1 Application	New heading added to align with method 2.
	C.2.1.1	New paragraph on the application of the method.
	C.2.2 Small unprotected areas and fire resisting glazing	New heading added
C2.1.1 <no title>	C2.2.1	Revised to align with C/AS2.
C2.1.2 <no title>	C.2.2.2	
Size and spacing of Type A and Type B areas	<Heading removed>	

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
C2.1.3 <no title>	C.2.2.3	Paragraph formatted into a list and revised to align with C/AS2.
Table C1	Table C.2.2.3A: Maximum permitted areas of fire resisting glazing for unsprinklered firecells (m <sup>2</sup> )	Table split into two for unsprinklered and sprinklered firecells. Table notes revised to align with the similar table in C/AS2.
	Table C.2.2.3B: Maximum permitted areas of fire resisting glazing for sprinklered firecells (m <sup>2</sup> )	Table notes revised to align with the similar table in C/AS2.
C2.1.4 <no title>	C.2.2.4	Revised to align with C/AS2 and remove reference to “Type” in the areas.
Figure C2 Method 1 - Permitted small unprotected areas and fire resisting glazing	Figure C.2.2.1: Permitted small unprotected areas and fire resisting glazing	Heading revised to remove “method 1”. Figure labels and notes revised to align with the same figure in C/AS2.
C2.2 Method 2 - enclosing rectangles - parallel boundary	C.3 Method 2 – Enclosing rectangles for parallel boundary	
Application	C.3.1 Application	
C2.2.1 <no title>	C.3.1.1	
C2.2.2 <no title>	C.3.1.2	Paragraph revised to align with similar text in C/AS2. Paragraph combined with previous text from C.2.2.7.
Enclosing rectangle dimensions	<Heading removed>	
C2.2.3 <no title>	C.3.1.3	
Maximum percentage of unprotected area allowed	C.3.2 Maximum percentage of unprotected area for external walls	Heading revised to align with C/AS2
C2.2.4 [First paragraph]	C.3.2.1	Paragraph revised to align with wording in C/AS2.
Table C2a Height of enclosing rectangle 1.0 metres	<Replaced by Tables C.3.2.1A, C.3.2.1B, and C.3.2.1C>	Tables C2a to C2f revised to list the values by FLED instead of enclosing rectangle height.
Table C2b Height of enclosing rectangle 2.0 metres	<Replaced by Tables C.3.2.1A, C.3.2.1B, and C.3.2.1C>	Table note relocated to C.3.2.3.
Table C2c Height of enclosing rectangle 3.0 metres	<Replaced by Tables C.3.2.1A, C.3.2.1B, and C.3.2.1C>	Table note relocated to C.3.2.3.
Table C2d Height of enclosing rectangle 4.0 metres	<Replaced by Tables C.3.2.1A, C.3.2.1B, and C.3.2.1C>	Table note relocated to C.3.2.3.
Table C2e Height of enclosing rectangle 6.0 metres	<Replaced by Tables C.3.2.1A, C.3.2.1B, and C.3.2.1C>	Table note relocated to C.3.2.3.

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
Table C2f Height of enclosing rectangle 8.0 metres	<Replaced by Tables C.3.2.1A, C.3.2.1B, and C.3.2.1C>	Table note relocated to C.3.2.3.
	Table C.3.2.1A: Maximum percentage of unprotected area for external walls for FLED $\leq 400$ MJ/m <sup>2</sup> for increasing heights and widths of the enclosing rectangle	Tables for enclosing rectangles organised by FLED in order to be similar to tables for C/AS2 that are organised by risk group.
	Table C.3.2.1B: Maximum percentage of unprotected area for external walls for FLED $> 400$ to $\leq 800$ MJ/m <sup>2</sup> for increasing heights and widths of the enclosing rectangle	Tables for enclosing rectangles organised by FLED in order to be similar to tables for C/AS2 that are organised by risk group.
	Table C.3.2.1C: Maximum percentage of unprotected area for external walls for FLED $> 800$ MJ/m <sup>2</sup> for increasing heights and widths of the enclosing rectangle	Tables for enclosing rectangles organised by FLED in order to be similar to tables for C/AS2 that are organised by risk group.
C2.2.4 [Second paragraph]	C.3.2.5	
C2.2.4 [Third paragraph]	C.3.2.2	Paragraph re-written into a list.
C2.2.5 <no title>	C.3.2.4	First sentence revised to align with wording in C/AS2.
C2.2.6 <no title>	C.3.2.6	
Required distance from the relevant boundary	<Heading removed>	
C2.2.7 <no title>	C.3.1.2(b)	Portions of the paragraph relocated to Subsection C.3.1 and wording revised to align with similar text in C/AS2.
Additional check of large unprotected openings	C.3.3 Largest individual unprotected areas	Heading revised to align with a similar subsection in C/AS2.
C2.2.8 [First three sentences]	C.3.3.1	Paragraph re-written to simplify the text and align with similar text in C/AS2. Portions of the text moved to a comment box where they do not form part of the requirement.
C.2.2.8 [Last sentence]	C.3.3.2	
	C.3.3.3	Text copied from previous table notes in Tables C2a to C2f.
C2.3 Method 3 - enclosing rectangles - irregular buildings and non-parallel boundaries	C.4 Method 3 – Enclosing rectangles for irregular buildings and non-parallel boundaries	

## Information on the second edition

C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
	C.4.1 Application	New heading to align with method 2
C2.3.1 <no title>	C.4.1.1	
Figure C4 Method 3 - Enclosing rectangles (irregular shaped buildings and non-parallel boundaries)	Figure C.4.1.1: Enclosing rectangles for irregular shaped buildings and non-parallel boundaries	Figure heading revised to remove “method 3”. Figure captions and notes revised to remove cross references.
C2.3.2 <no title>	C.4.1.2	
C2.3.3 [First paragraph]	C.4.1.3	
	C.4.2 Maximum percentage of unprotected area for external walls	New heading to align with method 2
C2.3.3 [Second paragraph]	C4.2.1	
C2.4 Method 4 - Return walls and wing walls	C.5 Method 4 – Return walls and wing walls	
Application	C.5.1 Application	
C2.4.1 <no title>	C5.1.1	
C2.4.2 <no title>	C.5.1.2	Paragraph revised to remove reference to the tables and avoid repetition with the following paragraph.
C2.4.3 [First sentence]	C.5.1.3	Paragraph revised to introduce the tables and align with similar paragraphs for other methods.
C2.4.3 [Second sentence]	C.5.1.4	Paragraph revised to be more generic and include to the relevant boundary.
Enclosing rectangle dimensions	<Heading removed>	
C2.4.4 <no title>	C5.1.5	
Return wall and wing wall lengths for intersection angles $\geq 80^\circ$ to $< 90^\circ$	C.5.2 Return wall and wing wall lengths for intersection angles $\geq 80^\circ$ to $< 90^\circ$	
C2.4.5 <no title>	C.5.2.1	
Equation C.1	Equation C.1	
Equation C.2	Equation C.2	
C2.4.6 <no title>	<Removed from document>	Relevant text from this paragraph added to the terms in the equation

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C/VM2 First edition	C/VM2 Second edition	Comments on C/VM2 Second Edition
C2.4.7 <no title>	C.5.2.2	Paragraph revised into a list. Comment box relocated to Paragraph C.5.1.5 where equivalent opening area is discussed. This is inline with the original location in the text in the C/VM2 commentary prior to C/VM2 First Edition Amendment 6.
Return wall and wing wall lengths for intersection angles $\geq 90^\circ$ to $< 135^\circ$	C.5.3 Return wall and wing wall lengths for intersection angles $\geq 90^\circ$ to $< 135^\circ$	
C2.4.8 <no title>	C.5.3.1	
Equation C.3	Equation C.3	
Equation C.4	Equation C.4	
Figure C5 Method 4 - Return walls on external walls having an intersection angle of between $80^\circ$ and $135^\circ$ with the relevant boundary or notional boundary	Figure C.5.1.4: Return walls on external walls having an intersection angle of between $80^\circ$ and $135^\circ$ with the relevant boundary or notional boundary	Figure heading revised to remove “method 4”. Longer captions added to figures (a) and (b). Figure figures revised to replace the key.
Table C3 Method 4 - Return walls and wing walls for unsprinklered firecells: protection of other property	Table C.5.1.3A: Minimum separation distance between unprotected areas and the relevant for return walls for the protection of other property	Table split into separate parts for return walls and wing walls. Table notes added to reduce the multiple levels of column headings.
	Table C.5.1.3B: Minimum length of wing wall if located on the relevant boundary for the protection of other property	Table notes added to reduce the multiple levels of column headings.
Table C4 Method 4 - Return walls and wing walls for unsprinklered firecells: protection of sleeping occupancies or safe paths on the same property	Table C.5.1.3C: Minimum separation distance between unprotected areas and the notional boundary for return walls for safe paths on the same property	Table split into separate parts for return walls and wing walls. Table notes added to reduce the multiple levels of column headings.
	Table C.5.1.3D: Minimum length of wing wall if located on the notional boundary for the protection of sleeping occupancies or safe paths on the same property	Table notes added to reduce the multiple levels of column headings.

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