



Get to know H1/VM2 Second edition

INFORMATION ON THE NEW EDITION OF THE VERIFICATION METHOD

On 27 November 2025, MBIE published Verification Method H1/VM2 Second edition.

If you have used H1/VM2 in the past, you will see some changes in the new version.



Updates following consultation

On 3 July 2025, MBIE announced part of the outcome of consultation on Acceptable Solutions H1/AS1 and H1/AS2 and Verification Methods H1/VM1 and H1/VM2. Following the consultation, the Schedule Method has been removed from H1/AS2. Other changes have been made to the Modelling Method in H1/VM2 to make it clearer in its use.



Building Product Specifications

The verification method now includes references to the Building Product Specifications. 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 required 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.

We have provided the table on the follow pages to outline the differences between the Second edition and the First edition Amendment 1 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 H1/VM2 can still be used to demonstrate compliance with the Building Code until 26 November 2026.

Information on the second edition

H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
Part 1. General	Part 1. General	
1.1 Introduction	1.1 Introduction	
1.1.1 Scope of this document	1.1.1 Scope of this document	
1.1.1.1	1.1.1.1	Minor revision post-consultation to improve clarity.
1.1.1.2	1.1.1.2	Comment box added to align with text in H1/VM1 and H1/AS2.
1.1.2 Items outside the scope of this document	1.1.2 Items outside the scope of this document	
1.1.2.1	1.1.2.1	Revised post-consultation to improve clarity.
1.1.2.2	1.1.3.2	Paragraph revised and relocated to Subsection 1.1.3 as it describes part of the compliance pathway.
1.1.3 Compliance pathway	1.1.3 Compliance pathway	
1.1.3.1	1.1.3.1	Paragraph revised to summarise the compliance pathway in this document and to replace Table 1.1.3.2.
1.1.3.2	<Removed from document>	
Table 1.1.3.2	<Removed from document>	Replaced with additional text in Paragraph 1.1.3.1.
	1.1.3.3	New paragraph on compliance for HVAC systems added to align with similar wording in H1/VM1.
1.2 Using this verification method	1.2 Using this verification method	
1.2.1 Determining the classified use	1.2.1 Determining the classified use	
1.2.1.1	1.2.1.1	
1.2.1.2	<Removed from document>	Removed to align with H1/AS1 and H1/AS2.
	1.2.2 Determining the area of the building	New subsection added as proposed in the consultation document
	1.2.2.1	New paragraph added as proposed in consultation document with a minor edit to the wording of the exclusion.
	1.2.3 Building Product Specifications	New subsection to introduce the Building Product Specifications

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
	1.2.3.1	New paragraph on the scope of the Building Product Specifications.
	1.2.3.2	New paragraph on the compliance pathway using the Building Product Specifications.
Part 2. Building thermal envelope	Part 2. Building thermal envelope	
2.1 Thermal resistance	2.1 Thermal resistance	
2.1.1 Demonstrating compliance	2.1.1 Overview	Revised heading name to align with other AS/VM documents.
2.1.1.1	2.1.1.1	Paragraph and comment box revised as proposed in consultation document, with additional edits to improve clarity.
	2.1.1.2	New paragraph referring to Subsection 2.1.2 for determining construction R-values of building elements.
	2.1.1.3	New paragraph on the installation of insulation materials to align with H1/AS2.
2.1.2 Modelling method for verification of the design	2. 2 Modelling method – General requirements	Content relating to the Modelling method has been restructured, incorporating all content from the previous Appendix D into Part 2. Building thermal envelope.
2.1.2.1	2.2.1.1	Revised as proposed in the consultation document.
2.1.2.2	2.2.1.3 2.3.1.2	Text split and relocated across two paragraphs and revised as a consequence of the restructuring of Modelling method content in the document.
Table 2.1.2.2A	Table 2.2.1.8	Additional table note added to reduce repetition in table column headings. Table note (2) revised post-consultation to simplify the requirement.

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
Table 2.1.2.2B	Table 2.3.1.2	R-values for walls revised as proposed in the consultation document. Table header revised to improve clarity. Additional table note added to reduce repetition in table column headings.
2.1.2.3	2.1.2.6	Relocated and revised to improve clarity.
2.1.2.4	2.1.2.7	Revised as proposed in the consultation document, with additional post-consultation edits to improve clarity.
2.1.3 Determining the thermal resistance	2.1.2 Determining the thermal resistance	
2.1.3.1 2.1.3.3	2.1.2.1	Two original paragraphs combined and edited post-consultation to improved clarity, incorporating changes that were proposed in the consultation document.
	2.1.2.2	New paragraph added with a modification to NZS 4214 as proposed in the consultation document, with additional post-consultation changes to improve clarity.
2.1.3.2	2.1.2.3	Amended to reference the Building Production Specifications.
Appendix A. References	Appendix A. References	
Reference entry for AS/NZS 4859.1	<Removed from document>	Removed from document as a consequence of referencing the Building Product Specifications.
Reference entry for ISO 13789	<Removed from document>	Removed from document post-consultation as relevant content has been included directly in the document.
Reference entry for BRANZ House insulation guide 5 th edition	Reference entry for BRANZ House insulation guide 6 th edition	Revised as proposed in the consultation document, with post-consultation update to release date.

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
Copyright statement	Copyright statement	Changes to “licence” not included from consultation document as “license” is not the proper spelling for New Zealand English.
Appendix B. Definitions	Appendix B. Definitions	
Definition entries for: Insulation plane Persons	<Removed from document>	Removed from document as proposed in the consultation document as these terms are not used in document.
Definition entries for: Door area (A_{door}) Floor area Shading coefficient	<Removed from document>	Removed from document post-consultation as these terms are not used in document.
Definition entries for: Conditioned space	Definition entries for: Conditioned space	Revised as proposed in the consultation document.
Definition entries for: Curtain walling External wall Heated ceiling, wall, or floor Solar heat gain coefficient (SHGC) Thermal envelope	Definition entries for: Curtain walling External wall Heated ceiling, heated wall, heated floor Solar heat gain coefficient (SHGC) Thermal envelope	Partially revised post-consultation to improve clarity.
Definition entries for: Roof area Wall area	Definition entries for: Net roof area Net wall area	Partially revised as proposed in the consultation document except that reference to ISO 13789 has not been included in the definition. Names of these defined terms changed post-consultation for improved clarity.
Definition entries for: Glazing area Total roof area Total wall area	Definition entries for: Wall glazing area Gross roof area Gross wall area	Names of these defined terms changed post-consultation for improved clarity.
	Definition entry for: Default values Foil insulation Household unit Opaque door area Wall framing fraction	Added to the document as the term is used in the verification method.
Appendix C. New Zealand climate zones	Appendix C. New Zealand climate zones and weather files	Title amended to reflect the revised content of the appendix.

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
C.1 Climate zones	C.1 Climate zones	
C.1.1 Climate zone boundaries	C.1.1 Climate zone boundaries	
C.1.1.1	C.1.1.1	
C.1.1.2	C.1.1.2	
Table C.1.1.2	Table C.1.1.2	
Figure C.1.1.2	Figure C.1.1.2	
	C.2 Weather files	New section added to appendix. This was proposed as a new Appendix G in the consultation document.
	C.2.1 Selecting weather files for building sites	New heading added as proposed in consultation document.
	C.2.1.1	New paragraph added with text proposed in consultation document.
	Table C.2.1.1	New table of weather files added as proposed in consultation document.
Appendix D. Modelling method – Building energy use comparison	<Removed from document>	Content from previous Appendix D incorporated in Part 2. Building thermal envelope.
D.1 Modelling requirements	2.2 Modelling method – General requirements	
D.1.1 Overview	2.2.1 Overview	
D.1.1.1	2.2.1.2	Paragraph amended post-consultation to improve clarity.
D.1.1.2	<Removed from document>	Paragraph removed from document as the essence of its requirement is covered in Paragraph 2.2.2.1.
D.1.2 Modelling principles	2.2.2 Modelling principles	
D.1.2.1	2.2.2.1	
D.1.2.2	2.2.2.2	
D.1.2.3	2.2.2.3	Additional text added to D.1.2.3 to align with H1/VM1. Floor area changed to area.
D.1.2.4	2.2.2.4	

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
D.1.2.5	2.2.1.3 Comment	Paragraph moved into a comment box as it does not specify a requirement for compliance.
D.1.3 Modelling software	2.2.3 Modelling software	
D.1.3.1	2.2.3.1	
D.1.4 Default values	2.2.4 Default values	
D.1.4.1	2.2.4.1	Wording revised to remove reference to 'discretionary' provisions and to cross-reference requirements for documentation.
D.1.4.2	2.2.4.2	Wording revised to remove reference to 'discretionary' provisions
D.1.4.3	2.2.4.3	List revised to align with H1/VM2, improve clarity and remove excess commas.
D.1.5.1	2.2.5.1	Paragraph amended as proposed in the consultation document.
D.1.5.1	D.1.5.1	Paragraph amended as proposed in the consultation document and formatted into a list.
D.1.6 Thermal zones	2.2.6 Thermal zones	
D.1.6.1	2.2.6.1	
D.1.6.2	2.2.6.2	
D.1.6.3	2.2.6.3	
D.1.6.4	2.2.6.4	
D.1.6.5	2.2.6.5	
D.1.6.6	2.2.6.6	
D.1.6.7	2.2.6.7	
D.1.6.8	2.2.6.8	
D.1.7 Unconditioned space	2.2.7 Adjoining spaces	Heading revised to align with H1/VM1.
D.1.7.1	2.2.7.2	Revised post-consultation to include all building elements that separate unconditioned spaces, not just walls.

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
D.1.7.2	2.2.7.3	Revised post-consultation to improve clarity.
D.1.8 Units and group buildings	<Heading removed>	
D.1.8.1	2.2.7.1	Revised post-consultation to improve clarity and relocated to Subsection 2.2.7.
D.1.9 Thermal mass	2.2.8 Thermal mass	
D.1.9.1	2.2.8.1	Paragraph revised and comment added post-consultation to improve clarity.
D.1.10 Thermal mass of contents	2.2.9 Thermal mass of contents	
D.1.10.1	2.2.9.1	
D.1.11 Shading	2.2.10 Shading	
D.1.11.1	2.2.10.1	Revised to align with H1/VM1.
D.1.11.2	2.2.10.2	
D.1.12 Incidental shading	2.2.11 Incidental shading	
D.1.12.1	2.2.11.1	
D.1.12.2	2.2.11.2	
D.1.13 Infiltration	2.2.12 Infiltration	
D.1.13.1	2.2.12.1	
D.1.14 Internal air flows	<Removed from document>	
D.1.14.1	<Removed from document>	Paragraph removed as its content is already covered in Paragraph 2.2.6.8.
D.1.15 Internal doors	<Removed from document>	
D.1.15.1	<Removed from document>	Paragraph removed as its content is already covered in Paragraph 2.3.3.4.
D.2 Thermal envelope	2.3 Thermal envelope modelling	Heading revised to improve clarity.
D.2.1 Thermal envelope building elements	2.3.1 Thermal envelope building elements	
D.2.1.1	2.3.1.1	
	2.3.1.2	New paragraph added post-consultation that partially incorporates content from the previous Paragraph 2.1.2.2.

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
	2.3.1.3	New paragraph added for the calculation of the net roof area, thermal envelope floor area, and net wall area. This text was previously proposed in the consultation as amendments to the definitions of these terms and as a comment box, with additional revisions to improve clarity and remove an unnecessary citation of ISO 13789.
D.2.1.2	2.3.1.4	Wording revised post-consultation to improve clarity
D.2.1.3	2.3.1.5	
D.2.2 External walls	2.3.2 External walls	
D.2.2.1	2.3.2.1	
D.2.2.2	<Removed from document>	Paragraph removed as its content is already covered in Paragraph 2.3.1.2.
D.2.2.3	2.3.2.2	
D.2.3 Internal walls	2.3.3 Internal building elements	Heading revised post-consultation to include all building elements that separate thermal zones, not just walls.
D.2.3.1	2.3.3.1	Wording revised post-consultation to include all building elements that separate thermal zones, not just walls.
D.2.3.2	2.3.3.2 2.3.3.3	Paragraph split and wording revised post-consultation to include all building elements that separate thermal zones, not just walls, and to improve clarity.
D.2.4 Roofs	2.3.4 Roofs	
D.2.4.1	2.3.4.1	
D.2.4.2	<Removed from document>	Removed to simplify reference building modelling requirements for skylights.
D.2.4.3	2.3.4.2	Wording revised post-consultation to reflect the name change of total roof area to gross roof area.

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
D.2.4.4	<Removed from document>	Paragraph removed from document as its content is already covered in Paragraph 2.3.1.2.
D.2.4.5	<Removed from document>	Paragraph removed from document as its content is already covered in Paragraph 2.3.1.4.
D.2.5 Floors	2.3.6 Floors	
D.2.5.1	2.3.6.1	
D.2.5.2	2.3.6.2	Paragraph revised as some of its content is already covered in Paragraph 2.3.1.2.
D.2.5.3	2.3.6.3	
D.2.5.4	2.3.6.4	
D.2.5.5	2.3.6.5	Revised post-consultation to reflect the exemption for heated floors used solely in rooms with a shower, bath or toilet.
D.2.6 Windows and doors	2.3.7 Windows and doors	
D.2.6.1	2.3.7.1	
D.2.6.2	2.3.7.2	
D.2.6.3	2.3.7.3 2.3.7.4	Paragraph split and wording revised post-consultation to improve clarity and to reflect the name changes of glazing area to wall glazing area, and total wall area to gross wall area.
D.2.6.4	2.3.7.5	Wording revised post-consultation to improve clarity and to convert from shading coefficient to solar heat gain coefficient.
D.2.6.5	<Removed from document>	Paragraph removed from document as its content is already covered in Paragraph 2.3.1.2.
D.2.7 Skylights	2.3.5 Skylights	Subsection revised post-consultation to simplify requirements and align with H1/VM1.
D.3 Space conditioning	2.4 Space conditioning modelling	

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
D.3.1 Control temperatures	2.4.1 Control temperatures and schedules	Heading change to improve clarity.
D.3.1.1	2.4.1.1	Paragraph revised post-consultation to improve clarity.
D.3.1.2	2.4.1.1 Comment	Redrafted as a comment box as the text does not form a requirement in the verification method.
D.3.1.3	2.4.1.2	Paragraph revised post-consultation to improve clarity.
D.3.2 Fresh air ventilation	2.4.2 Fresh air ventilation	
D.3.2.1	2.4.2.1	
D.3.2.2	2.4.2.2	
D.3.2.3	2.4.2.3	
D.3.2.4	<Removed from document>	Paragraph removed post-consultation as its text did not form a requirement and could be confusing.
D.3.3 Conditioning system modelling	2.4.3 Conditioning system modelling	
D.3.3.1	2.4.3.1	Paragraph revised as proposed in the consultation document, with additional wording added post-consultation to improve clarity.
D.4 Internal loads	2.5 Internal gains modelling	Heading change to improve clarity.
D.4.1 Lighting	2.5.1 Lighting	Subsection revised post-consultation to simplify requirements and align with H1/VM1.
D.4.2 Domestic hot water	2.5.2 Domestic hot water	
D.4.2.1	2.5.2.1	
D.4.3 Occupants and plug loads	2.5.3 Occupants and plug loads	
D.4.3.1	2.5.3.1	Revised post-consultation to improve clarity.
D.4.3.2	2.5.3.2	Values changed to default values to improve clarity.
D.4.3.3	2.5.3.3	
D.4.4 Process loads	2.5.4 Process loads	

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
D.4.4.1	2.5.4.1	Heat loads changed to internal gains.
D.4.4.2	2.5.4.2	
D.5 Reference building	<Removed from document>	
D.5.1 Schedules	<Removed from document>	
D.5.1.1	<Removed from document>	
Table D.5.1.1	Table 2.5.3.1	
D.5.1.2	<Removed from document>	
Table D.5.1.2A	Table 2.5.3.1A	Table header revised for improved clarity. Table column headings re-formatted for clarity. Values converted from percentages to decimals
Table D.5.1.2B	Table 2.5.3.1B	Table header revised for improved clarity. Table column headings re-formatted for clarity. Values converted from percentages to decimals
Table D.5.1.2C	Table 2.5.3.1C	Table header revised for improved clarity. Table column headings re-formatted for clarity. Values converted from percentages to decimals.
D.6 Documentation	2.6 Documentation	
D.6.1 Documentation of analysis	2.6.1 Documentation of analysis	
D.6.1.1	2.6.1.1	Paragraph amended as proposed in the consultation document.
Appendix E. Windows, doors, skylights, and curtain walling	Appendix D. Windows, doors, skylights, and curtain walling	
E.1 Vertical windows and doors	D.1 Vertical windows and doors	
E.1.1 Methods for determining construction R-values	D.1.1 Methods for determining construction R-values	
E.1.1.1	D.1.1.1	
E.1.2 Calculation of the construction R-value of each individual window and door that is part of the thermal envelope	D.1.2 Calculation of the construction R-value of each individual window and door that is part of the thermal envelope	
E.1.2.1	D.1.2.1	
E.1.2.2	D.1.2.2	
E.1.2.3	D.1.2.3	

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H1/VM2 First edition Reference	H1/VM2 Second edition Reference	Changes to H1/VM2 Second edition
E.1.2.4	D.1.2.4	
E.1.3 Calculation of the representative construction R-value of all windows and doors that are part of the thermal envelope	D.1.3 Calculation of the representative construction R-value of all windows and doors that are part of the thermal envelope	
E.1.3.1	D.1.3.1	
E.2 Skylights	D.2 Skylights	
E.2.1 Construction R-values	D.2.1 Construction R-values	
E.2.1.1	D.2.1.1	
E.2.1.2	D.2.1.2	
E.3 Curtain walling	D.3 Curtain walling	
E.3.1 Construction R-value	D.3.1 Construction R-value	
E.3.1.1	D.3.1.1	
Appendix F. Thermal resistance of slab-on-ground floors	Appendix E. Thermal resistance of slab-on-ground floors	
F.1 Construction R-values	E.1 Construction R-values	
F.1.1 Methods for determining construction R-values for slab-on-ground floors	E.1.1 Methods for determining construction R-values for slab-on-ground floors	
F.1.1.1	E.1.1.1	Minor edit post-consultation to improve clarity.
F.1.1.2	E.1.1.2	
F.1.2 Calculating slab-on-ground floor R-values	E.1.2 Calculating slab-on-ground floor R-values	
F.1.2.1	E.1.2.1	
F.1.2.2	E.1.2.2	
F.1.2.3	E.1.2.3	Reference to ISO 13789 removed and replaced by additional explanatory wording post-consultation.
F.1.2.4	E.1.2.4	
F.1.2.5	E.1.2.5	
F.1.2.6	E.1.2.6	
F.1.2.7	E.1.2.7	

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