



Get to know H1/AS2 Second edition

INFORMATION ON THE NEW EDITION OF THE ACCEPTABLE SOLUTION

On 27 November 2025, MBIE published Acceptable Solution H1/AS2 Second edition.

If you have used H1/AS2 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 Calculation Method to make it clearer and more flexible in its use.



Building Product Specifications

The acceptable solution 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 acceptable solution.



Minor amendments that do not affect the level of performance

Other minor amendments have been made to the acceptable solution 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 acceptable solution itself takes precedence.

The previous edition of H1/AS2 can still be used to demonstrate compliance with the Building Code until 26 November 2026.

Information on the second edition

H1/AS2 First edition Reference	H1/AS2 Second edition Reference	Changes to H1/AS2 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 of paragraph.
1.1.1.2	1.1.1.2	Minor revision of paragraph. Comment box added after Paragraph 1.1.1.2 for consistency with H1/AS1.
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	1.1.2.2	
1.1.2.3	1.1.3.2	Relocated to the subsection on the compliance pathway.
1.1.3 Compliance pathway	1.1.3 Compliance pathway	
1.1.3.1	1.1.3.1	Revised to give more information on the compliance pathway and to replace Table 1.1.3.1.
1.1.3.2	<Removed from document>	Removed for consistency with other AS/VM documents.
Table 1.1.3.2	<Removed from document>	Removed for consistency with other AS/VM documents. Relevant information for H1/AS2 relocated to Paragraph 1.1.3.1
1.2 Using this acceptable solution	1.2 Using this acceptable solution	
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 as industrial buildings are within scope of the Building Code clause H1.3.4 for the energy efficiency of hot water systems.
	1.2.2 Determining the area of the building	New subsection added as proposed in the consultation document.
	1.2.2.1	New paragraph on the area of the building as proposed in the consultation with additional post-consultation revisions.

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H1/AS2 First edition Reference	H1/AS2 Second edition Reference	Changes to H1/AS2 Second edition
	1.2.3 Building Product Specifications	New subsection to introduce the Building Product Specifications
	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/VMs documents.
2.1.1.1	2.1.1.1	Revised as proposed in the consultation document, with additional post-consultation edits to improve clarity.
2.1.1.2	2.1.1.1 Comment	Paragraph moved into comment box as its content was for guidance only, and second comment revised as proposed in the consultation document.
2.1.1.3	2.1.1.2	Revised as proposed in the consultation document.
2.1.1.4	<Removed from document>	Removed as relevant requirements are included in Subsection 2.1.2.
2.1.1.5	2.1.1.3	
2.1.1.6	2.1.1.4	
2.1.2 Schedule method	<Subsection removed from document along with corresponding paragraphs>	Removed from document as proposed in the consultation document.
2.1.3 Calculation method	2.1.2 Calculation method	
2.1.3.1	2.1.2.1	Revised as proposed in the consultation document.
	2.1.2.2	New paragraph added post-consultation to add flexibility.
	2.1.2.3	New paragraph added post-consultation to add flexibility.

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H1/AS2 First edition Reference	H1/AS2 Second edition Reference	Changes to H1/AS2 Second edition
2.1.3.2	2.1.2.4	Revised post-consultation to replace reference to shading coefficient (SC) with solar heat gain coefficient (SHGC), with the solar aperture value converted accordingly, and to reflect the changes of defined terms glazing area to wall glazing area, and total wall area to gross wall area.
Equation 1	Equation 2.1	SC replaced by SHGC.
2.1.3.3	<Removed from the document>	Removed as proposed in the consultation document.
2.1.3.4	2.1.2.5	Revised as proposed in the consultation document.
Equation 2	<Removed from document>	Equation 2 removed from the document as it is redundant with the paragraph text and inconsistent with H1/AS1.
2.1.3.5	2.1.2.6 a)	Text consolidated with 2.1.3.8 into 2.1.2.6 to minimise repetition.
2.1.3.6	2.1.2.6 b)	Text consolidated with 2.1.3.8 into 2.1.2.6 to minimise repetition.
2.1.3.7	2.1.2.7	Revised to reflect the changes of defined terms wall area to net wall area, and total wall area to gross wall area.
Equation 3	Equation 2.4	
2.1.3.8	2.1.2.6	Text consolidated with 2.1.3.5 and 2.1.3.6 into 2.1.2.6 to minimise repetition. Heat “flow” revised to “loss” for consistency with wording in the equations.
Equation 4a	Equation 2.2	Revised as proposed in the consultation document, with additional minor edits to improve clarity.
Equation 4b	Equation 2.3	Revised as proposed in the consultation document, with additional minor edits to improve clarity.

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H1/AS2 First edition Reference	H1/AS2 Second edition Reference	Changes to H1/AS2 Second edition
	2.1.2.8	Paragraph added to introduce Table 2.1.2.8.
Table 2.1.2.2B	Table 2.1.2.8 Reference building construction R-values	New table added as proposed in the consultation document. Additional table note added to remove repetition in column headings.
2.1.3.9	<Removed from document>	Removed as the requirements of that paragraph were redundant to those in Paragraph 2.1.2.7.
2.1.3.10	2.1.2.9	
Table 2.1.2.2A	Table 2.1.2.11	Relocated from the schedule method to Subsection 2.1.2. Table note (1) added. Table note (2) revised post-consultation to simplify the requirement.
2.1.3.11	<Removed from document>	Removed as proposed in the consultation document.
2.1.4 Determining the thermal resistance	2.1.3 Determining the thermal resistance	
2.1.4.1 2.1.4.3	2.1.3.1	Two original paragraphs combined and edited post-consultation for improved clarity, incorporating changes that were proposed in the consultation document.
	2.1.3.2	New paragraph added to modify NZS 4214 as proposed in the consultation document, with additional post-consultation changes to improve clarity.
2.1.4.2	2.1.3.3	Revised to reference the Building Product Specifications.
2.1.4.4	2.1.3.5	
2.2 Airflow	2.2 Airflow	
2.2.1 Control of airflow	2.2.1 Control of airflow	
2.2.1.1	2.2.1.1	
2.3 Solar heat gains	2.3 Solar heat gains	
2.3.1 Control of solar heat gains	2.3.1 Control of solar heat gains	
2.3.1.1	2.3.1.1	
Part 3. Building services	Part 3. Building services	
3.1 Hot water systems	3.1 Hot water systems	

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H1/AS2 First edition Reference	H1/AS2 Second edition Reference	Changes to H1/AS2 Second edition
3.1.1 Hot water systems for sanitary fixtures and sanitary appliances	3.1.1 Hot water systems for sanitary fixtures and sanitary appliances	
3.1.1.1	3.1.1.1	
3.2 Artificial lighting	3.2 Artificial lighting	
3.2.1 Communal non-residential and commercial buildings	3.2.1 Communal non-residential and commercial buildings	
3.2.1.1	3.2.1.1	
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.
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		
Definition entries for: Insulated glazing unit Persons Surface of glass Shading coefficient	<Removed from document>	Removed from document as proposed in the consultation document 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 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.

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H1/AS2 First edition Reference	H1/AS2 Second edition Reference	Changes to H1/AS2 Second edition
	Definition entries for: Foil insulation Wall framing fraction	New definitions added post-consultation to improve clarity.
Definition entries for: Thermal envelope floor area Total thermal resistance	Definition entries for: Thermal envelope floor area Total thermal resistance	Partially revised as proposed in the consultation document except that reference to ISO 13789 has not been included in the definition. Total thermal resistance revised to remove the standard reference from the definition.
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.
Appendix C. New Zealand climate zones	Appendix C. New Zealand climate zones and weather files	
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	
Appendix D. Orientation	<Removed from document>	Appendix deleted because of the removal of the schedule method.
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	

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H1/AS2 First edition Reference	H1/AS2 Second edition Reference	Changes to H1/AS2 Second edition
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	
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	
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 post-consultation revision of E.1.1.1 b) to improve clarity.
F.1.2 Performance tables for slab-on-ground floors	E.1.2 Performance tables for slab-on-ground floors	
F.1.2.1	E.1.2.1	Comment box added post-consultation to make the document more user-friendly.
F.1.2.2	<Removed from document>	Paragraph deleted as the essence of its content is provided in Table E.1.2.1, and in the headings of tables E.1.2.1A-E.1.2.1X.
F.1.2.2 Comment	E.1.2.1 Comment	Comment 6 added post-consultation to improve the user-friendliness of the document.

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H1/AS2 First edition Reference	H1/AS2 Second edition Reference	Changes to H1/AS2 Second edition
F.1.2.3	E.1.2.2 Comment 2	Content moved into comment box post-consultation. It duplicates requirements of Paragraph E.1.2.2 but offers useful guidance.
F.1.2.4	E.1.2.2	Revised post-consultation to improve clarity, and reference to ISO 13789 removed.
	E.1.2.3	New paragraph added as proposed in the consultation document, with further post-consultation revision to the comment box.
	E1.2.4	New paragraph added post-consultation to enable the use of the slab performance tables for buildings with a mix of wall cladding types.
		New paragraph added post-consultation to enable the use of the slab performance tables for buildings with both incomplete slab-edge insulation, and a mix of wall cladding types.
Table F.1.2.1	Table E.1.2.1	
Table F.1.2.2A	Table E.1.2.2A	Table revised with additional values as proposed in the consultation document. Column headings and table notes 1 and 2 revised.
Table F.1.2.2B	Table E.1.2.2B	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2C	Table E.1.2.2C	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2D	Table E.1.2.2D	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.

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Table F.1.2.2E	Table E.1.2.2E	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2F	Table E.1.2.2F	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2G	Table E.1.2.2G	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2H	Table E.1.2.2H	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2I	Table E.1.2.2I	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2J	Table E.1.2.2J	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2K	Table E.1.2.2K	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2L	Table E.1.2.2L	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2M	Table E.1.2.2M	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.

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Table F.1.2.2N	Table E.1.2.2N	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2O	Table E.1.2.2O	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2P	Table E.1.2.2P	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2Q	Table E.1.2.2Q	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2R	Table E.1.2.2R	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2S	Table E.1.2.2S	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2T	Table E.1.2.2T	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2U	Table E.1.2.2U	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2V	Table E.1.2.2V	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.

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H1/AS2 First edition Reference	H1/AS2 Second edition Reference	Changes to H1/AS2 Second edition
Table F.1.2.2W	Table E.1.2.2W	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.
Table F.1.2.2X	Table E.1.2.2X	Table revised with additional values as proposed in the consultation document. Column headings and table note 1 revised.

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