

Get to know G4/AS1 Fifth edition

INFORMATION ON THE NEW EDITION OF THE ACCEPTABLE SOLUTION

On 28 July 2025, MBIE published Acceptable Solution G4/AS1 Fifth edition.

If you have used G4/AS1 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. Consequently, some of the headings and paragraph numbers in G4/AS1 have changed to fit in the new layout.



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 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.

We have provided the table on the follow pages to outline the differences between the Fourth Edition and Fifth 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 acceptable solution 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 fifth edition

G4/AS1 Fourth edition	G4/AS1 Fifth edition	Comments on G4/AS1 Fifth Edition
Document title: <none>	Document title: Ventilation of buildings	Heading to describe the contents of the document
	Part 1. General	New introduction added to document based on its contents.
	1.1 Introduction	New heading to align with drafting of other AS/VMs
	1.1.1 Scope of this document	New heading to align with drafting of other AS/VMs
	1.1.1.1	New paragraph on the scope of the document
	1.1.2 Items outside the scope of this document	New heading to align with drafting of other AS/VMs
	1.1.2.1	New paragraph to state there are no scope limitations.
	1.1.3 Compliance pathway	New heading to align with drafting of other AS/VMs
	1.1.3.1	New paragraph to describe the compliance with G4.
	1.1.3.2	New paragraph to remind users that alternatives may also be used for compliance.
	1.2 Using this acceptable solution	New heading to align with drafting of other AS/VMs
	1.2.1 Determining the classified use	New heading to align with drafting of other AS/VMs
	1.2.1.1	New paragraph on how classified uses are determined using similar text from other AS/VMs.
	1.2.2 Building Product Specifications	New subsection on the Building Product Specifications
	1.2.2.1	New paragraph on the scope of the Building Product Specifications
	1.2.2.2	New paragraph on the compliance pathway using the Building Product Specifications
1 Ventilation	Part 2. Ventilation of spaces within buildings	
	2.1 Ventilation of spaces within buildings	New heading added based on the contents of the section.

Information on the fifth edition

G4/AS1 Fourth edition	G4/AS1 Fifth edition	Comments on G4/AS1 Fifth Edition
1.1 Introduction	2.1.1 Overview	New heading added to align with drafting of other AS/VMs
1.1.1 <no title>	2.1.1.1	Added reference to Paragraph 1.1.3.1(c) for the list of products in G4.3.3.
1.1.2 <no title>	2.1.1.2	
1.3.1 Second paragraph	2.1.1.3	Relocated from 1.3.1 as part of the overview for the section.
1.1.3 <no title>	2.1.1.4	Reference in comment box updated.
1.2 Natural ventilation - General	2.2 Natural ventilation	Heading revised to remove the term "General".
	2.2.1 Openings	New heading added
1.2.1 <no title>	2.2.1.1	
1.2.2 <no title>	2.2.1.2	
1.2.3 <no title>	2.2.1.3	
1.2.4 <no title>	2.2.1.4	
1.2.5 <no title>	2.2.1.5	Cross-reference in comment box removed.
1.3 Natural ventilation of household units and accommodation units with one external wall	2.2.2 Natural ventilation of household units and accommodation units with one external wall	
Scope	<Heading removed>	
1.3.1 First paragraph	2.2.2.1	Paragraph rewritten to reflect what must be done to comply.
1.3.1 Second paragraph	2.1.1.3	This paragraph relocated to 2.1.1.3 as part of the overview
Kitchens, bathrooms, toilets, laundries and habitable spaces that have an external wall	<Heading removed>	
1.3.2 <no title>	2.2.2.2	
1.3.3 <no title>	2.2.2.3	
Habitable spaces ventilated via another habitable space	<Heading removed>	
1.3.4 <no title>	2.2.2.4	
Trickle ventilators	<Heading removed>	
1.3.5 <no title>	2.2.2.5	

Information on the fifth edition

G4/AS1 Fourth edition	G4/AS1 Fifth edition	Comments on G4/AS1 Fifth Edition
Table 1 Number of occupants	Table 2.2.2.5A	Last row in table revised to be clearer on the number of people.
Table 2 Total required equivalent aerodynamic area per space (mm ²)	Table 2.2.2.5B	
1.4 Combined natural ventilation and mechanical ventilation	2.4 Combined natural ventilation and mechanical ventilation	This section moved to the end of Part 2 to maintain consistent logic and structure in the document.
Scope	2.4.1 Household units and accommodation units with one external wall	Heading revised to be more specific to the subsection.
1.4.1 First paragraph	2.4.1.1	
1.4.1 Second paragraph	2.4.1.2	
Combined natural ventilation with continuous or intermittent mechanical ventilation	2.4.2	
1.4.2 <no title>	2.4.2.1	
1.5 Mechanical ventilation	2.3 Mechanical ventilation	
	2.3.1 Mechanical ventilation systems	
1.5.1 <no title>	2.3.1.1	Amended to reference the Building Product Specifications.
Car park ventilation	2.3.2 Car park ventilation	
1.5.2 <no title>	2.3.2.1	
Positive and negative pressure	2.3.3 Positive and negative pressure	
1.5.3 <no title>	2.3.3.1	Cross-reference to Paragraph 1.4.4 revised. New edition now correctly references Paragraph 2.5.3.2.
1.5.4 <no title>	2.3.3.2	
2 Ventilation of spaces containing gas-fuel appliances	Part 3. Ventilation of gas-fuel appliances	
2.1 Natural ventilation	3.1 Natural ventilation	
	3.1.1	New heading to describe the subsection.
2.1.1 <no title>	3.1.1.1	Cross-reference to paragraphs replaced with cross-reference to subsection.

Information on the fifth edition

G4/AS1 Fourth edition	G4/AS1 Fifth edition	Comments on G4/AS1 Fifth Edition
2.1.2 <no title>	3.1.1.2	
	3.1.2 Vent sizes	
2.1.3 Vent sizes	3.1.2.1	Rewritten to use proper grammar in sentence.
2.1.4 <no title>	3.1.2.2	Cross reference to paragraph above removed.
2.1.5 <no title>	3.1.2.3	
2.1.6 <no title>	3.1.2.4	
2.1.7 <no title>	3.1.2.5	
2.1.8 <no title>	3.1.2.6	
2.2 Mechanical ventilation	3.2 Mechanical ventilation	
	3.2.1 Mechanical ventilation systems	
2.2.1 <no title>	3.2.1.1	
2.2.2 <no title>	3.2.1.2	
2.3 Flue construction	3.2.2 Flue construction	
2.3.1 <no title>	3.2.2.1	
	3.2.3 Draught diverters	
2.3.2 Draught diverters	3.2.3.1	
2.4 Flue locations on dwellings	3.3 Flue locations on dwellings	
	3.3.1 Flue terminals	New heading added to describe the subsection.
2.4.1 <no title>	3.3.1.1	
3 Another solution for Gas-fuel appliances	3.4 Another solution for Gas-fuel appliances	
	3.4.1 Gas installations	
3.0.1 <no title>	3.4.1.1	Rewritten with portions of the text relocated to a comment box.
References	Appendix A. References	References relocated to Appendix A.
Reference entries for: AS/NZS 3666.1 and AS/NZS 3666.2	<Removed from document>	Removed from the document and replaced with reference to the Building Product Specifications.
Definitions	Appendix B. Definitions	Definitions relocated to Appendix B.
Reference entry for: Common extract duct	<Removed from document>	Removed from the document as no longer used in the acceptable solution.

Information on the fifth edition

G4/AS1 Fourth edition	G4/AS1 Fifth edition	Comments on G4/AS1 Fifth Edition
	Reference entry for: Other property	Added to the document as used in the acceptable solution
Appendix 1 Typical apartment layouts and ventilation options	Appendix C. Ventilation options for typical apartment layouts	
	C.1 Typical apartments	New heading
	C.1.1 Layouts	New heading
	C.1.1.1	New paragraph added to the appendix to introduce the figures and tables.
Figure 1 Layout 1	Figure C.1.1.1A	
Table 3 Ventilation options - Layout 1	Table C1.1.1A	
Figure 2 Layout 2	Figure C.1.1.1B	
Table 4 Ventilation options - Layout 2	Table C1.1.1B	
Figure 3 Layout 3	Figure C.1.1.1C	
Table 5 Ventilation options - Layout 3	Table C1.1.1B	

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