

PLANNING circular

BUILDING SYSTEM		
Building regulation advisory note		
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Related		

Building Code of Australia 2007 amendment

This circular provides local councils, accredited certifiers, relevant government agencies and industry groups with information regarding the Building Code of Australia (BCA) 2007, which took effect on 1 May 2007.

Background

The BCA is amended on an annual cycle with each new amendment beginning on 1 May of the relevant year. BCA 2007 became law on 1 May 2007.

The NSW Government, through the Department of Planning, is extensively involved in the development and review of all amendments to the BCA. This process also involves considerable liaison and consultation with key government and industry stakeholders at all levels.

Overview of BCA 2007 amendment

Whilst not containing any major reform outcomes, BCA 2007 is an important amendment in that it focuses on issues of clarification and better understanding and application of the BCA, which is of benefit to all stakeholders and users of the Code.

Changes are made in both Volumes One and Two to:

- update referenced documents to incorporate approved new editions and amendments
- update energy efficiency provisions resulting from stakeholder feedback
- make a number of minor technical amendments to clarify intent.

Additionally, in Volume Two, amendments have been made to clarify:

- that either the Acceptable Construction Manual (ACM) or Acceptable Construction Practice (ACP) are equally acceptable Deemed-to-Satisfy (DTS) options for the same components of the Performance Requirements
- for windows and glazing, the suitability of the ACMs for window assemblies and glazing, and of the ACP for glazing only.

The changes contained in the BCA 2007 amendment and its referenced documents are listed in the Australian Building Codes Board's (ABCB) *List of Amendments* for Volume One and *BCA 2007 – Housing Provisions* for Volume Two (see attached).

Key aspects of the amendment are summarised below.

Key changes to Volumes One and Two

Introduction to the BCA

The introduction is revised to align with the 2006 ABCB Inter Government Agreement.

Also, sustainability is included as a goal of the BCA.

Registered testing authority (Clauses A1.1 and 1.1.1)

The definition is amended to refer to generic types of organisations rather than to specific ones. Certificates previously issued by specifically referenced organisations such as NBTC and CSIRO are still acceptable.

Primary and secondary referenced documents (Clauses A1.3 and 1.1.3)

Clauses A1.3 and 1.1.3 are amended to clarify that when a secondary referenced document is also a primary referenced document, the edition of the primary referenced document, as listed in the 'Schedule of Referenced Documents' of each Volume, applies to all references to that document.

Updated references to Australian Standards and other referenced documents (Specification A1.3 and Part 1.4)

The Standards referenced in the BCA to provide the technical method of compliance with BCA

provisions are reviewed, amended and re-issued on a regular basis by Standards Australia. For the purposes of the BCA, they are reviewed/approved by the ABCB and the Building Codes Committee prior to being referenced. Such standards then become part of the building law via reference to the BCA in NSW legislation.

The amendments to, and new editions of, referenced documents of BCA 2007 fall into six broad categories:

- Structural design actions (loading codes) amendment of AS/NZS 1170 Part 0 General principles; Part 2 Wind actions; and new reference to Part 3 Snow loads, all in both Volumes One and Two
- Installation of particular systems amendment of AS/NZS 3500.5 Domestic plumbing and drainage in Volume Two
- Protection of openings amendment of AS 4072.1 Service penetrations and control joints in Volume One and new reference in Volume Two
- Energy efficiency measures amendment of AS/NZS 4859.1 Thermal insulation materials and addition of note validating tests under previous versions, in both Volumes One and Two
- Design using specific materials amendment of NASH Standard Steel framing in Volume Two and new reference in Volume One
- Protocol for energy efficiency software ABCB 2006 Protocol for house energy-rating software, Version 2006.1 in both Volumes.
 (To run concurrently with the 2005 edition and addressing what is referred to as 'second generation' software).

The following documents are deleted, due to being outdated and no longer used by industry:

- AS 2867 Structural design of farm structures, from both Volumes One and Two
- AS 3623 Domestic metal framing from Volume Two

Also, the incorrect reference to AS 1530.4 Fire resistance tests of elements of construction is deleted from Volume Two.

Technical changes (excluding energy efficiency provisions)

Volume One

The changes to Volume 1 include clarification of interpretation and application of various technical provisions; and insertion of some minor new technical provisions.

Clause C2.4 – subclause (b)(v) is added to require vehicular access for large isolated buildings to be wholly within the allotment, except for where a public road is serving as part of that access. The amendment clarifies the intent and is consistent with requirements of (a) for open space.

Specification C2.5 Clause 3 – the lining of smoke proof walls is clarified to indicate that the specified

lining need only be on one side for the wall to be considered smoke proof.

Clause D1.7(c) – requirements for the path of travel from the point of discharge from a fire isolated exit are clarified to specify the method of measurement and the vertical extent of the protection required, relative to the level of the pathway.

Clause D2.13(c) – a new subclause (c) permits variation in the riser and 2R + G values where a stairway meets a sloping public road or walkway.

Clause D2.21(c) – reference to 'occupancies where special security arrangements are necessary' has been revised to specify particular occupancies in order to more clearly reflect the intent of the provision.

Table E2.2b – smoke hazard management for Class 6 fire compartments is reworded to clarify that the application of the provision is to the whole fire compartment, if the Class 6 part is more than 2000m2 in floor area.

Part F2 Tables – the tables for sanitary facilities in buildings have been reformatted for ease of use. Table F2.1 contains a new note clarifying that a kitchen sink or washbasin must not to be counted as a laundry tub. In other tables, the numerical affect of many of the notes are incorporated into the tables.

Clause G1.1 – for consistency with Volume Two, a note is added regarding the application of provisions for swimming pools in NSW, drawing attention to additional requirements for swimming pool construction contained in the NSW Appendix.

Volume Two

The changes to Volume 2 include clarification of interpretation and application of various technical provisions; insertion of some minor new technical provisions, and insertion of new and expanded explanatory information.

Clarifying the relationship between ACMs and ACPs

- Clause 1.0.7(b) states that where the ACM and the ACP are deemed to satisfy the same component of a Performance Requirement, then each is an acceptable DTS method and are options to each other. Example: The ACM and ACP of Part 3.5.2 for gutters
 - and downpipes are deemed to satisfy the same components of a Performance Requirement as both Clause 3.5.2.0 for the ACMs and Clause 3.5.2.1 for the ACP state that compliance satisfies Performance Requirement P2.2.1 for gutters and downpipes
- Clause 1.0.7(c) states that where the ACM and the ACP are deemed to satisfy different components of a Performance Requirement, compliance may require satisfying both the ACM and the ACP for their specific components.

Example: The ACM and ACP of Part 3.12.5 for energy efficiency of services, are deemed to satisfy **different** components of a Performance Requirement as Clause 3.12.0(b) states that Performance Requirement P2.6.2 for the energy efficiency of a service is satisfied only for a hot water system by complying with the ACM (Clause

- 2.12.5.0), while it is satisfied for central heating water piping and heating and cooling ductwork by complying with the ACP (Clauses 3.12.5.1 to 3.12.5.3). Where services comprise elements from both the ACM (a hot water system) and the ACP (central water heating piping or heating and cooling ductwork), both the ACM and ACP must be satisfied
- Part 3.0 contains information on how to use Section 3, the DTS provisions of Volume Two. Clause 3.2, entitled 'The scope of these provisions' is expanded to provide further explanation of the relationship between ACMs and ACPs.

Clause 1.1.4 – the changes made explain that the Housing Provisions take preference in any difference arising between them and a document referenced as part of the ACP. Note: This is applicable only within the ACP. A document listed as an ACM is an acceptable DTS method and is not subject to comparison with the provisions of the ACP.

Clause 3.3.3. – the terms 'building width' and 'roof span' used to determine the need to tie down a roof are clarified in words and figures.

Part 3.5.2 – changes are made throughout the Part generally to clarify the requirements for gutters and downpipes and specifically in clause 3.5.2.5 to ensure the spacing of downpipes provides sufficient fall and provision for overflow. Gutter provisions are relocated and rationalised.

Part 3.6 – the glazing ACMs (Clause 3.6.0) are clarified to identify that use of AS 2047 is acceptable for complete assemblies that include glazing and frame and that AS 1288 is acceptable for glazing only. The differences in satisfying Performance Requirements are identified as AS 2047 satisfying requirements for both structure (P2.1) and weatherproofing (P2.2.2) for certain glazed assemblies, while AS 1288 satisfies the requirements for structure only (P2.1) for certain glazed assemblies.

The glazing ACP (Clauses 3.6.1 to 3.6.4) has been amended to align with AS 1288 2006. The changes include:

- Clause 3.6.2 limits the area of glass when using 3mm annealed glass
- Clause 3.6.3 changes the BCA 2006 maximum area table to three new tables for thickness of glass in various wind speed areas
- Clause 3.6.4 clarifies the provisions for human impact consideration, including when full height glass panels are not considered capable of recognition as unobstructed openings
- Clause 3.6.4.6 this is a new provision for identifying glass where it could be taken as a door or other opening.

Clause 3.7.1.7 – In regulating for the fire safety of a Class 1 building, the location of a non-combustible rainwater tank in any position in the space adjacent to an external wall that requires an FRL is considered acceptable. Therefore, reference to rainwater tanks as allowable encroachments is relocated from subclauses (b)(iii)

to (b)(i). The result is that the required setback from the boundary (or another building on the site) for fire safety purposes, is only applicable to a **combustible** rainwater tank.

Clause 3.7.1.8 – the new provisions in subclause (g) for the penetration of separating walls by electrical wires or cables are based on Specification C3.15 of Volume One.

Table 3.8.1.1 – the Tables for wet areas in buildings have been reformatted for ease of use. No technical change has been made.

Part 3.8.5 – The ACM for mechanical ventilation (Clause 3.8.5.0) is divided into two provisions in order to better regulate the use of exhaust fans in specified rooms in houses:

- subclause (a) references AS 1668.2 as the manual for acceptable indoor air quality, except for exhaust fans in toilets, bathrooms and laundries
- subclause (b) requires exhaust fans in toilets, bathrooms and laundries to comply with the ACP. The ACP (Clause 3.8.5.2) now contains requirements for exhaust fans in toilets, bathrooms and laundries, including conditions on exhausting into a roof space that previously qualified the ACM of BCA 2006.

Clause 3.9.2.3 – A new provision [subclause (g)] has been inserted into the balustrade provisions as a cross reference for practitioners, clarifying that glass balustrades must, among other things, comply with AS 1288.

Updated energy efficiency provisions

Changes to Volumes One and Two

Updated provisions include clarification of wording to limit variations of interpretation; expansion of some provisions for a wider application and some minor corrections and changes to terminology, including:

- Insulation Clauses J1.2 and 3.12.1.1 are clarified so that at framing members, where insulation is not required to abut or overlap adjoining insulation, it must be butted against the members.
- Thermal breaks Clauses J1.3 and J1.5; 3.12.1.2 and 3.12.1.4 are amended to clarify that provisions to install thermal breaks are applicable to metal framed roofs and metal framed walls with specified lining conditions.
- Insulation of floors Clauses J1.6 and 3.12.1.5 are extended to apply the requirement to floors with an in-slab cooling system installed.

Note: Climate maps on the ABCB website have been updated to contain details of council areas in NSW climate zone 5 (Sydney east) and climate zone 6 (Sydney west). To access the maps online go to www.abcb.gov.au then follow the links to 'What are we doing/Core projects/Energy efficiency/General information page.

Additional changes to Volume One

The amendments to Volume One include:

Clause JV3 – a new criteria regarding lighting is included in the requirement of Clause JV3 for calculation of the annual energy consumption of a referenced building.

Clause J1.3 – the concession for a reduction in required R-Value for a light-coloured roof is changed for buildings of Class 5 to 8, 9a and 9b to climate zone 5 only.

Note: The intended amendment was to extend the concession for light-coloured roofs to include climate zone 5 in a new subclause (b)(iii). However, a publication error has resulted in the BCA 2006 provision of (b)(ii) regarding Class 5 to 8, 9a and 9b buildings in climate zones 1, 2 and 3 being accidentally deleted. Until the provision is reinstated in BCA 2008, an Alternative Solution could be proposed for an R-Value concession for light coloured roofs for Class 5 to 8, 9a and 9b buildings in climate zones 1, 2 and 3, using the provisions of BCA 2006 as justification.

Clause J1.5 – is qualified so that an internal wall forming part of the envelope may achieve 50% of the required R-Value, only if the adjacent non conditioned space is enclosed.

Clause J3.4 – sealing requirements for openings are applied to those forming part of the building envelope (rather than the external wall).

Clause J5.4 – equipment covered by the Minimum Energy Performance Scheme is exempted from insulation requirements for heating and chilling systems.

Clause J6.2 – the concession on maximum lamp power density provided on the basis of switching by a timer or motion detector has been removed for a Class 3 sole occupancy unit as the maximum specified already takes into account that such sole occupancy units must have occupant activated devices installed.

Clause J8.1 – the list of occupancies to which the Part J8 – access for maintenance does not apply, is extended to include a Class 4 part of a building.

Note Clause JV2 – feedback from industry has resulted in a decision to delete Clause JV2 from the Verification Methods of both Volumes. However, to provide an appropriate lead time, a transition period of 12 months is being provided. Clause JV2 will be withdrawn in BCA 2008.

Additional changes to Volume Two

The amendments to Volume Two include:

Part 3.12 – additional explanatory information is provided to assist users in the application of the energy efficiency provisions.

Clause 3.12.1.4 – an extra concession is provided for climate zones 1 and 2 on thermal performance of a wall, on the basis of a 25% reduction on glazing C_{SHGC} for slab on ground construction, with another storey above.

Table 3.12.5.2 – the table for insulation of ductwork and fittings is reformatted for ease of use and the required R-Value for fittings has been rationalised following industry feedback.

Changes to NSW variations in BCA 2007

Bushfire protection

The revised document *Planning for Bush Fire Protection 2006* (NSW Rural Fire Service 2006) has been released and adopted through the Environmental Planning and Assessment Amendment (Planning for Bush Fire Protection) Regulation 2007 and the Rural Fires Amendment Regulation 2007. The new version replaces *Planning for Bush Fire Protection 2001. Planning for Bush Fire Protection 2006* is available from the Rural Fire Services website at www.rfs.nsw.gov.au

The revision of the Planning for Bush Fire Protection document has required consequential changes to the NSW variations for construction in bushfire prone areas, as follows.

Overview of application

In NSW the bushfire protection construction requirements now apply to Class 1, 2 and 3 buildings, Class 4 parts of buildings and Class 9 buildings that are a 'special fire protection purpose'.

Volume One

In **Part G5** of the NSW Appendix changes are made to:

- facilitate the inclusion of reference to Class 4 parts of buildings and the extended application of the revised Planning for Bush Fire Protection document to buildings that are a 'special fire protection purpose'. Note: This term is used under the Rural Fires Act 1997 and in Planning for Bush Fire Protection 2006 to identify specific uses to which the bushfire protection regime applies
- insert a new Objective NSW Clause G05, Functional Statement NSW Clause GF5.1 and Performance Requirement NSW Clause GP5.1, indicating the expanded application including Class 4 parts of buildings and Class 9 buildings that are a 'special fire protection purpose'
- make editorial alterations to NSW Clause G5.2 in how reference is made to the application of the site assessment methods of Appendix 3 of Planning for Bushfire Protection 2006. Appendix 3 continues to replace the site assessment methodology of AS 3959.

In **NSW Clause A1.1**, a consequential amendment is made to insert a definition of 'special fire protection purpose'.

Volume Two

The NSW variations to *Clauses 3.7.4.0 and* 3.7.4.2 are altered for editorial consistency with NSW Clause G5.2 in Volume One in reference to the application of the site assessment methods of Appendix 3 of *Planning for Bushfire Protection* 2006, in lieu of that of AS 3959.

Note: The term 'special fire protection purpose' used in Volume One, is not applicable to a Class 1 or 10 building.

Energy efficiency matters

Changes to Volumes One and Two

Changes are made in **NSW Section J** and **Addition NSW 2** to recognise the application of BASIX to additions and alterations to buildings.

References to national provisions are updated.

Changes of format are made to align with national provisions.

Minor typographic errors are corrected.

Additional changes to NSW variations

Reference to other NSW legislation and referenced documents are updated:

- NSW H101.17 reference is updated for location of smoke detectors in a projection room, to the current AS 1670
- NSW H101.24 reference for compliance of fuel gas cylinders stored in or around a place of public entertainment is updated to the current AS/NZS 1596.

Minor editorial changes are made to existing Volume One variations to provide for consistency with national provisions and additional clarity.

Further information

All changes made with the BCA 2007 amendment, including those described above, are contained in the ABCB's *List of Amendments* for Volume One and *BCA 2007 – Housing Provisions* for Volume Two (see attached).

General enquiries regarding the changes to the BCA can be made to the Department on 02 9228 6529.

Authorised by:

Sam Haddad Director General

Important note

This circular does not constitute legal advice. Users are advised to seek professional advice and refer to the relevant legislation, as necessary, before taking action in relation to any matters covered by this circular.

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LIST OF AMENDMENTS

This set of notes has been prepared by the Australian Building Codes Board to assist BCA users in identifying changes incorporated in the 2007 edition of Volume One of the BCA (BCA 2007).

The notes provide a description of major changes made from the previous edition of the BCA. If additional information is required to assist in understanding, interpreting or applying the provisions of BCA 2007, reference should be made to the Guide to the BCA.

While the Australian Building Codes Board has attempted to include all major changes made from the previous edition of the BCA Volume One, the Board does not give any warranty nor accept any liability in relation to the contents of this list of amendments.

ВСА	Reference	Changes & Commentary
Intro		number of changes have been made to align the wording in the Introduction with the 2006 CB Inter-government Agreement.
Secti	ion A	
A1.1	Th	e following definitions have been inserted or amended:
	Annual energy consumption	Amended by deleting subclauses (a), (b) and (c) because the ABCB Protocol for Building Energy Analysis Software details the requirements applicable to the methods used to determine the annual energy consumption of a building.
	Conditioned space	The exemption under (a) has been amended to only apply to a Class 2 building or Class 4 part of a building.
	Registered Testi Authority	The references to NBTC, CSIRO–DBC&E and CSIRO-MIT have been deleted so that the definition refers to types of organisations rather than specific organisations. As a consequence, the sub-clauses have been re-numbered.
		New paragraph (b) clarifies that any overseas laboratory that is registered by an overseas authority recognised by NATA would be acceptable.
		New paragraph (c) includes in the definition, organisations recognised as Registered Testing Authorities under legislation at the time the test was undertaken.
A1.3	pri	w paragraph (c) added clarifying that when the secondary referenced document is also a mary referenced document, the edition or issue of the primary referenced document plies.
Spec Table		e following references were inserted or amended:
	AS/NZS 1170 Pa	art 0 Amdt 1, Jan 2003 to AS/NZS 1170 "Structural design actions" Part 1 "General principles" referenced.
	AS/NZS 1170 Pa	art 2 Amdt 1, March 2005 to AS/NZS 1170 "Structural design actions" Part 2 "Wind actions" referenced.
	AS/NZS 1170 Pa	art 3 Reference to AS/NZS 1170 "Structural design actions" Part 3 "Snow and ice actions" and Amdt 1, Jan 2007 included.
	AS 1170 Part 3	Reference to B1.2 deleted due to the changes within that provision.
	AS 2867	Reference to AS 2867 "Farm structures — General requirements for structural design" deleted due to advice that it is no longer used by industry.
	AS 4072 Part 1	Amdt 1, March 2006 to AS 4072 "Components for the protection of openings in fire-resistant separating elements" Part 1 "Service penetrations and control joints" referenced.
	ABCB 2006 Prot for House Energ Rating Software, Version 2006.1	
	AS/NZS 4859 Pa	art 1 Amdt 1 to AS/NZS 4859 "Materials for thermal insulation of buildings" Part 1 "General criteria and technical provisions" referenced. A note has been included stating that test and calculation reports for demonstrating compliance with AS/NZS 4859.1 carried out prior to the introduction of Amdt 1 remain valid.

BCA Reference	Changes & Commentary
NASH Standa	Reference to NASH Standard "Residential and low rise framing", including Amdt A, included.
Section B	
B1.2(c)	"Ice actions" added as a consequence of referencing AS/NZS 1170.3.
B1.2(c)(ii)	Reference to AS 1170.3 has been replaced with reference to AS/NZS 1170.3 due to the referencing of newer edition of the standard.
B1.4(c)(iii)	New provision included allowing the use of NASH Standard for residential and low-rise steel framing.
B1.4(m)	Reference to AS 2867 deleted due to advice that it is no longer used by industry. As a consequence, the following subclause has been renumbered.
Section C	
C2.4(b)(v)	Amended to clarify the intent that vehicular access must be wholly within the allotment as is the case for the open space required by C2.4(a).
Clause 3(a) of Specification C2.5	Amended to clarify that a non-combustible lining need only be applied to one side of the wall for it to be considered as smoke-proof.
Clause 2(a) of Specification C3.4	The reference to AS/NZS 1905.1 has been updated to AS 1905.1 in line with the 2005 edition of the standard.
Section D	
D1.7(c)	Amended to clarify that the provision only applies to the path of travel from a fire-isolated exit, covered by the provision heading, and that it also only applies at the level of discharge.
D2.13	A new concession has been included to take into account the intersection of a stairway and sloping public walkway or road. The provision has been restructured as a consequence of this change.
D2.21(c)	Amended to be more specific about the areas where the concession for operation of the latch can be applied. This change is consistent with the original intent of the provision.
Section E	
E1.4(c)(iv)	When BCA 2006 referenced the 2005 edition of AS 2441, the provisions of E1.4(c)(iii) were deleted. The reference to E1.4(c) in sub-paragraph (iv) has been deleted as a consequence of this change.
Table E2.2b	Clarification has been included that the 2000 m ² applies to the Class 6 part of the fire compartment and not the whole compartment containing a Class 6 part.
Table E3.4	The heading to the table has been amended by clarifying that it only applies to Class 9a buildings as set out in E3.4(e)(ii)(A).
E4.4	Reference to AS/NZS 2293.1 corrected to refer to AS 2293.1 to be consistent with the document nominated in Specification A1.3.
E4.8(a)	Reference to AS/NZS 2293.1 corrected to refer to AS 2293.1 to be consistent with the document nominated in Specification A1.3.
Section F	
Table F2.1	To assist in readability, some formatting changes have been made to the table. No technical changes have been made.
	A note stating that a kitchen sink or a washbasin are not to be counted as a laundry washtub has been included.
F2.2	The title of the provision has been changed to "Calculation of number of occupants and facilities" to more closely reflect the contents.
F2.3	Due to the reformatting of Table F2.3, a number of the notes from the previous Table have been included in F2.3.
Table F2.3	To assist in readability, some formatting changes have been made to the table. No technical changes have been made.
F2.4(a)	Minor editorial amendments have been made to clarify that Table F2.4 requires facilities for people with disabilities.

BCA Reference	Changes & Commentary	
Table F2.4	To assist in readability, some formatting changes have been made to the table. No technical changes have been made.	
Section G		
G1.1(a)(i)	Note inserted regarding additional requirements for swimming pool construction in NSW.	
G1.1(a)(ii)	Provision updated to refer to the Northern Territory of Australia Swimming Pool Safety Act 2004.	
Section J		
JV3(b)(i)(C)	A new condition has been added for lighting when calculating the annual energy consumption of a referenced building.	
JV3(b)(ii)(B)	Clarification added for situations where climate data is not available for the subject location.	
JV3(b)(ii)(P)	Clarification added that the same number and sizes of lifts as used in the actual building must be modelled in the reference building.	
Specification JV Clause 2(e)	Clarification added that there is a credit equal to 50% of the renewable energy generated on site rather than 50% of the annual energy consumption.	
Specification JV Table 2h	The word "maximum" has been deleted after the 15 W/m² and 5 W/m² values in the table because the intent is to specify the exact value as is the case in Table 2i.	
J1.2(a)(i)	Clarification added that insulation need not be continuous across supporting members.	
J1.3(b)(ii)	The concession for Total R-Values for Class 5 to 8, 9a and 9b buildings with light coloured roofs has been restricted to climate zone 5.	
J1.3(d)	Clarification added as to when and where a thermal break is required in roofs.	
Table J1.5b	Clarification added that other options for creating space for insulation are also allowed for option (e) in climate zones 1, 3, 4 and 6.	
J1.5(c)	Clarification added that the option may only be used where the adjoining space is enclosed.	
J1.5(e)	Clarification added as to when and where a thermal break is required in walls.	
J1.6(a) and (c)	The provision has been extended to include in-slab cooling systems as well as heating systems.	
Figure J2.3 note	Clarification added about the orientation of a wall or glazing element.	
J3.4(a)	Clarification added that sealing of a door in the envelope is required rather than in external elements. Title of provision altered from 'External windows and doors' to 'Windows and doors' as a consequence.	
J3.4(b)	Clarification added that internal envelope louvres and smoke doors are also exempted.	
J3.5	Guidance provided on the type of miscellaneous exhaust fan systems covered by the provision.	
J3.6(a)	Clarification added that sealing of the building envelope is required rather than of external elements.	
J5.2(a)(iv)	Clarification added that sub-clause (A) and (B) refer to air-conditioning units and not air-conditioning systems that do not handle air, such as a ceiling panel cooling system.	
J5.3	Clarification added that a time switch must control the plant specified rather than the power supply. Some equipment needs stand-by power.	
J5.4(a)(i)	Exemption added for equipment with insulation levels already controlled under the Minimum Energy Performance Standard program.	
J5.4(b)	Clarification added that the provision applies to all water heaters used for heating a building.	
Table J5.4a	Heading in Table changed to align with J5.4(b).	
Table J5.4b	The titles of table columns have been amended to better reflect the table content. The restriction on table values only applying to equipment of up to 125 kWr has been removed.	
Table J5.4c	Unit of energy efficiency ratio added.	

Changes & Commentary
In subclause (B), the reference to sole-occupancy units in a Class 3 building has been removed as these units must have an occupant activated device such as a motion detector or key device.
In subclause (C) clarification added that the concession for a daylight sensing control device is only available where natural light is available.
The provisions for maintenance have been extended to all classes of buildings other than a sole-occupancy unit in a Class 2 building and a Class 4 part of a building.
Expanded data for blockwork included. The thermal conductivity for clay soil has been corrected from 0.06 to 0.6.
The table has been expanded to include a range of gradients for a cathedral roof.
Minor corrections and diagrams changed to remove the cross hatching from purlins, battens and other roof framing members (which indicated that the member was solid).
Note added about deducting the airspace R-Value when a roof airspace is filled.
Minor changes to terminology, dimensions and references to notes.
New note 6 added about deducting the airspace or cavity R-Value when they are filled.
New note 6 added concerning deducting the airspace R-Value when they are filled.
Clarification added that ductwork insulation is not required on certain fittings.
Minor changes to heading and terminology. Changes have also been made to Total R-Values as a result of practitioner queries and an industry submission.
Minor changes to heading to clarify that the R-Values contained in the table are for ductwork and fittings.
The exemption has been broadened to encompass cooling systems and those heating or cooling systems in a wall or roof panel.
The Minimum Total R-Values in items 3 and 4 for climate zones 1, 2, 3 and 5 and climate zone 8 have been corrected.
Reference to corridor deleted as a consequence of changes to J6.2(a)(ii)(B).
Reference to AS 2890 Parking facilities deleted.
ACT variations to Section F deleted.
Provisions dealing with swimming pool surfaces and concourses deleted.
The footnote has been updated.
Definition of "Special fire protection purpose" inserted.
Reference to AS/NZS 1596, The Storage and Handling of LP Gas, added. Reference to Planning for Bushfire Protection updated.
Provisions that apply to sole-occupancy units in certain buildings changed to reflect national provisions.

BCA Reference	Changes & Commentary	
NSW Part G5	New Objective, Functional Statement and Performance Requirement for construction in bushfire prone areas inserted.	
NSW G5.2	Provisions for construction in bushfire prone areas updated.	
NSW H101.17.1	Reference to Local Government Regulations updated and changes made to clauses excluded from AS 1670.1.	
NSW H101.24.1	Reference to Australian LP Gas Code deleted and replaced with AS/NZS 1596.	
NSW Section J notes	Updated to reflect changes to the application and implementation of BASIX.	
NSW J(A)P1	Application of Performance Requirement simplified.	
NSW J(A)1.2(a)	Reference to enabling instruments simplified.	
NSW J(A)1.2(b)	Provisions for thermal breaks simplified.	
NSW J(A)2.2	New sub-clause (f) added for evaporative coolers to reflect the national provisions.	
NSW Subsection J(B) - NSW J1.6	Format changed for Total R-Values for suspended floors forming part of the building envelope and NSW Table J1.6 containing minimum Total R-Values inserted to reflect the national provisions.	
Qld Appendix		
Qld Table 1	The following definitions have been inserted or amended:	
Pamphlet 1	Title of Pamphlet updated to "Construction timbers in Queensland - Properties and specifications for satisfactory performance of construction timbers in Queensland - Class 1 and 10 buildings (Houses, carports, garages, greenhouses and sheds)".	
Vermin Contr Regulations	rol Reference deleted.	
Qld B1.4(f)	Reference updated.	
Qld F1.101	Part deleted.	
Qld Part F101	Part deleted.	
Qld Section H	Section deleted.	
SA Appendix		
SA G1.1(c)	Clarification added that for the purposes of clause 5.1 of AS 1926.3, a skimmer box is an outlet.	
SA G5.1	Amended to include reference to South Australian Development Plans.	
SA J3.1	Amended for consistency with the main BCA.	
SA J3.4	Amended in line with changes to the main BCA and for consistency with the main BCA.	
SA J3.5	Amended in line with changes to the main BCA.	
SA J3.6	Amended in line with changes to the main BCA.	
SA J3.7	Amended for consistency with the main BCA.	
Note to SA J7.2	Note amended to refer to "design and installation" instead of "supply and installation".	
Tas Appendix		
Tas H110.1	Reference to "covered by the <i>Public Health (Skin Penetration) Regulations 1978</i> " replaced by "which require a "public health risk activity" licence under the <i>Public Health Act 1997</i> ".	
Vic Appendix		
Vic Specification A1.3 Table 1	The following references were deleted or amended in Vic Table 1:	
AS/NZS 4200	Reference deleted.	
FirstRate	Reference deleted.	
NatHERS	Reference deleted.	

BCA Reference	Changes & Commentary	
Supported residential se design guide		
Residential fi safety systen Practice Note	ns	
Emergency communicati systems Prac Note		
Vic Table F2.1	Table amended to align with changes to Table F2.1 in the main BCA.	
Vic F2.3(g)	Amended by including a number of notes from the previous Vic Table F2.3.	
Vic Table F2.3	Table amended to align with changes to Table F2.3 in the main BCA.	
Vic H101.4(a)	The term "Supported Residential Service" has been amended to "Supported Residential Services".	
Vic H101.5	The term "Supported Residential Service" has been amended to "Supported Residential Services".	
Vic H 102.1	Reference to the definition in the Building Act and Regulations deleted.	
Vic JV1(a)	Vic JV1 amended.	
Special requirements for certain buildings and components	References to approval authorities and relevant legislation updated.	
History of BCA Adoption		
Table 4.0	Table updated to include relevant adoption dates in Queensland and South Australia.	
5.0	Clause 5.0 and Table 5.0 have been added in order to set out the adoption dates of the 2007 edition of the BCA in each State and Territory and to summarise the purpose of the changes from BCA 2006.	

BCA 2007 - HOUSING PROVISIONS

This set of notes has been prepared by the Australian Building Codes Board to assist BCA users in identifying changes incorporated in the 2007 edition of the Housing Provisions (Volume Two) of the BCA (BCA 2007).

The notes provide a description of major changes made from the previous edition of the BCA.

While the Australian Building Codes Board has attempted to include all major changes made from the previous edition of the BCA Housing Provisions, the Board does not give any warranty nor accept any liability in relation to the contents of this list of amendments.

BCA Reference		Changes & Commentary
Introductio	n	
Introduction		A number of changes have been made to align the wording in the Introduction with the 2006 ABCB Inter-government Agreement.
Part 1.0		
1.0.7		Amended to clarify that if an acceptable construction manual and an acceptable construction practice listed in the same Part of Section 3 are deemed to satisfy the same component of a Performance Requirement, compliance with the appropriate acceptable construction manuals or the appropriate acceptable construction practice, not both, is deemed to comply with the Performance Requirement. To achieve this, the existing provision has been re-numbered (a) and a new provision added. A new provision (c) has also been added to explain the requirements when the acceptable construction manual and the acceptable construction practice satisfy different components of a Performance Requirement.
Part 1.1		
1.1.2		The following definitions have been inserted or amended:
	Glazing	amended to be consistent with the definition in Volume One by excluding roof lights.
	High wind area	As part of the conversion from the W to the N and C categories for wind speeds included in the 2006 edition of the BCA, the definition of "High wind area" has been amended to the refer to "N3/C1" in lieu of "W41".
	Registered Testing Authority	The references to NBTC, CSIRO–DBC&E and CSIRO-MIT have been deleted so that the definition refers to types of organisations rather than specific organisations. As a consequence, the sub-clauses have been re-numbered.
		New paragraph (b) clarifies that any overseas laboratory that is registered by an overseas authority recognised by NATA would be acceptable.
		New paragraph (c) includes in the definition, organisations recognised as Registered Testing Authorities under legislation at the time the test was undertaken.
1.1.3		New paragraph (c) added clarifying that when the secondary referenced document is also a primary referenced document, the edition or issue of the primary referenced document applies.
1.1.4		Amended to clarify that the Housing Provisions overrule in any difference between it and any document referenced as part of the acceptable construction practice.
Part 1.4		

Table 1.4.1		The following references were inserted or amended:
	AS/NZS 1170 Part 0	Amdt 1, Jan 2003 to AS/NZS 1170 "Structural design actions" Part 0 "General principles" referenced.
	AS/NZS 1170 Part 2	Amdt 1, March 2005 to AS/NZS 1170 "Structural design actions" Part 2 "Wind actions" referenced.
	AS/NZS 1170 Part 3	Reference to AS/NZS 1170 "Structural design actions" Part 3 "Snow and ice actions" and Amdt1, Jan 2007 included.
	AS 1530 Part 4	Reference to AS 1530 "Methods of fire tests on building materials, components and structures" Part 4 "Fire-resistance tests of elements of construction" updated to 2005 edition.
	AS/NZS 1530.4	Correction by deleting reference to AS/NZS 1530.4.
	AS 2867	Reference to AS 2867 "Farm structures — General requirements for structural design" deleted due to advice that it is no longer used by industry.
	AS/NZS 3500 Part 4	The title of Part 4 has been corrected to "Heated water services".
	AS/NZS 3500 Part 5	Amdt 2, July 2004 to AS/NZS 3500 "Plumbing and drainage" Part 5 "Domestic installations" referenced. The date of Amdt 3 has been corrected to Jan 2006.
	AS 3623	Reference to AS 3623 "Domestic metal framing" deleted due to advice that it is no longer used by industry.
	AS 4072 Part 1	As a consequence of the inclusion of Deemed-to-Satisfy Provisions for service penetrations of separating walls in 3.7.1.8, reference to AS 4072 "Components for the protection of openings in fire-resisting separating elements" Part 1 "Service penetrations and control joints" has been included. The note contained in Volume One allowing systems tested to AS 1530.4 prior to 1 January 1995 not needing to be retested to comply with the provisions of AS 4072.1 has also been included.
	AS/NZS 4859 Part 1	Amdt 1 to AS 4859 "Materials for thermal insulation of buildings" Part 1 "General criteria and technical provisions" referenced. A note has been included stating that Test and calculation reports for demonstrating compliance with AS 4859.1 carried out prior to the intruduction of Amdt 1 remain valid.
	ABCB 2006 Protocol for House Energy Rating Software, Version 2006.1	New Protocol referenced to facilitate acceptance of new generation of house energy rating software.
	NASH Standard	Amdt A, Dec 2006 to NASH Standard "Residential and low-rise steel framing" referenced.
	ACT variation	Reference to "Worksafe Australia Asbestos Code of Practice and Guidance Notes, August 1998" deleted.
	NSW variation	Reference to "Planning for Bushfire Protection" document updated.
	Queensland variation	Reference to "Construction timbers in Queensland - Properties and specifications for satisfactory performance of construction timbers in Queensland - Class 1 and 10 buildings (Houses, carports, garages, greenhouses and sheds)" included.
	South Australian referenced documents	Reference to South Australian Housing Code updated to 2002.

South Australian referenced documents	Reference to "enHealth Council, Department of Health and Ageing — 2004 — Guidance on the use of rainwater tanks" included.
Practice Note 2006-55 Victoria variation	Reference to Victorian Practice Note 2006-55 deleted as a consequence of changes to the Victorian variation to 3.12.0.
Section 2	
O2.1(d)State and Territory Variation	Queensland variation deleted.
P2.4.6 State and Territory Variation	Queensland variation deleted.
V2.4.6	The Western Australia variation to V2.4.6 has been removed.
V2.6.2.2(b)(ii)	Clarification added for situations where climate data is not available for the subject location.
Part 3.0	
3.2	Additional information inserted explaining the use of acceptable construction practice and acceptable construction manuals.
Part 3.1	
3.1.1.0	Amended by replacing the word "Part" with "acceptable construction practice". This change has been made as part of the clarification that compliance with the appropriate acceptable construction manuals or the appropriate acceptable construction practice set out in Section 3, not both, is deemed to comply with the Performance Requirements.
3.1.2.1	Refer commentary for Clause 3.1.1.0.
	Specific reference to standards changed to "acceptable construction manual".
3.1.3.1	Refer commentary for Clause 3.1.1.0.
Part 3.2	
3.2.1	Amended by replacing the word "this Part" with "the acceptable construction practice contained in Parts 3.2.2 to 3.2.5". This change has been made as part of the clarification that compliance with the appropriate acceptable construction manuals or the appropriate acceptable construction practice set out in Section 3, not both, is deemed to comply with the Performance Requirements.
Figure 3.2.5.4(a) and (b)	Clarification added that the specified reinforcement must be installed in both the top and bottom of strip footings.
Part 3.3	
3.3.1.1	Refer commentary for Clause 3.1.1.0.
3.3.2.1	Refer commentary for Clause 3.1.1.0.
3.3.3.1	Refer commentary for Clause 3.1.1.0.
3.3.3.3(b)	Amended to clarify the intent of the term "roof system span" by referring to the building width in the direction of the roof span.
Figure 3.3.3.3(a)	New figure added to clarify method of measuring the roof system span. Existing Figure 3.3.3.3 renumbered to Figure 3.3.3.3(b) as a consequence.
3.3.4.1	Refer commentary for Clause 3.1.1.0.
3.3.5.1	Refer commentary for Clause 3.1.1.0.
Part 3.4	

3.4.1.1	Refer commentary for Clause 3.1.1.0.
3.4.2.0	Amended by deleting the words "cold-formed" because a number of the listed acceptable construction manuals apply to other than cold-formed steel framing.
	Reference to AS 3623 "Domestic metal framing" deleted due to advice that it is no longer used by industry.
3.4.2.1	Refer commentary for Clause 3.1.1.0.
3.4.2.1(a)	Amended by deleting the words "cold-formed" because a number of the listed documents apply to other than cold-formed steel framing.
	Reference to AS 3623 deleted and the remaining referenced documents have each been placed in separate subclauses.
3.4.3.0(i) State and Territory Variation	Reference updated.
3.4.4.1	Refer commentary for Clause 3.1.1.0.
Table 3.4.4.1	The title of the table has been corrected to "Columns". The first part of the table has been amended to refer to columns supporting timber floors only.
Part 3.5	
3.5.1.0	Reference to Class 1 and 10 buildings deleted as it was not necessary given that the Housing Provisions only deal with those classes of buildings.
3.5.1.1	Refer commentary for Clause 3.1.1.0.
3.5.2.1	Refer commentary for Clause 3.1.1.0.
3.5.2.4	Provisions for high-fronted gutters relocated from 3.5.2.5(d) (downpipes) to 3.5.2.4 (gutters).
3.5.2.5	Layout of clause amended and new explanatory information added to clarify the requirements as follows-
3.5.2.5(a)	Sub-clause (a) deleted. Explicit regulation for the fixing of downpipes is not considered necessary and is not done for other similar building components.
3.5.2.5(b)	Amended to clarify the intent of the spacing of downpipes to ensure sufficient fall is provided for prevention of water overflowing into the building.
3.5.2.5(d)	Sub-clause (d) relocated to 3.5.2.4.
3.5.2.5(e)(i)	Sub-clause deleted. Compatibility of gutter and downpipe materials with roofing material is dealt with in 3.5.2.2.
3.5.3.1	Refer commentary for Clause 3.1.1.0.
Part 3.6	
Appropriate Performance Requirements	A typographical correction has been made so that the note is worded similarly to those in other Parts of Section 3.

3.6.0	The provision has been renumbered to more clearly set out when it is acceptable to use AS 2047 and when it is acceptable to use AS 1288.
	Due to AS 1288 not containing any provisions for weatherproofing, the acceptable construction manual provision has been amended to state that this manual only satisfies Performance Requirement P2.1 which deals with structural stability and resistance to actions.
	New explanatory information has been inserted explaining that, when satisfying Performance Requirement P2.2.2 "Weatherproofing", Part 3.6 only contains the acceptable construction manual AS 2047 for windows. If AS 1288 is used as an acceptable construction manual for glass in an external wall, it is still necessary to satisfy P2.2.2 because AS 1288 does not contain any provisions for weatherproofing.
3.6.0(a) State and Territory Variation	Queensland variation updated as a consequence of changes to Part 3.6.
3.6.1	Amended by replacing the word "Part" with "acceptable construction practice". This change has been made as part of the clarification that compliance with the appropriate acceptable construction manuals or the appropriate acceptable construction practice set out in Section 3, not both, is deemed to comply with the Performance Requirements.
	Reference to Performance Requirement P2.2.2 has been deleted .
	Provision for making safety glass visible has been included.
	The reference to sloped overhead glazing in (d) has been deleted as it is not included in the acceptable construction practice.
	New (f) and (g) added clarifying when the acceptable construction practice is suitable for use and when windows must comply with AS 2047. The provision is similar to those in 3.6.0 setting out when AS 2047 may be used and when AS 1288 may be used. Although this matter is explained in Part 3.0, the new provisions have been included to eliminate confusion.
	Additional explanatory information has been included explaining why the acceptable construction practice is not suitable for the installation of windows.
3.6.2	Due to aligning the acceptable construction practice with recent changes to AS 1288, new provisions have been added limiting the size of 3 mm annealed glass.
	New explanatory information has been included explaining the term insulated glass unit and factors that have been used in determining the glass thickness set out in new Tables 3.6.1, 3.6.2 and 3.6.3.
3.6.3	Amended to refer to the three new Tables setting out the glass thicknesses for external glazing for wind classes N1, N2 and N3.
Tables 3.6.1, 3.6.2 and 3.6.3	New tables have been added setting out glass thickness for external glazing for wind classes N1, N2 and N3. The thicknesses have been derived from recent changes to AS 1288 and have been made to align the acceptable construction practice with those changes.
3.6.4	Due to the renumbering and change to clause titles of the following provisions, the references to other parts of the acceptable construction practice have been renumbered.
3.6.4.1	The previous 3.6.5 has been renumbered 3.6.4.1.
	Amendments have been made to align the acceptable construction practice with recent changes to AS 1288.

3.6.4.2	The previous 3.6.6 has been renumbered 3.6.4.2.
3.0.4.2	Amended as a consequence of the change to Table numbers in Part
	3.6.
	Other amendments have been made to align the acceptable construction practice with recent changes to AS 1288.
Table 3.6.4	Due to aligning the acceptable construction practice with recent changes to AS 1288, Table 3.6.4 is no longer necessary and has been deleted.
3.6.4.3	The previous 3.6.7 has been renumbered 3.6.4.3.
	Amended as a consequence of the change to Table numbers in Part 3.6.
	The previous (b)(v) has been deleted to remove an unnecessary reference to (a).
Figure 3.6.1	Reference to clauses has been updated to reflect the restructure of Part 3.6.
Table 3.6.5	The table has been renumbered from the previous Table 3.6.3 and includes minor amendments to align the acceptable construction practice with recent changes to AS 1288.
3.6.4.4	The previous 3.6.8 has been renumbered 3.6.4.4.
	Amended as a consequence of the change to Table numbers in Part 3.6.
	Other minor amendments have been made to align the acceptable construction practice with recent changes to AS 1288.
Figure 3.6.2	Reference to clauses has been updated to reflect the restructure of Part 3.6.
3.6.4.5	The previous 3.6.9 has been renumbered 3.6.4.5.
	Due to aligning the acceptable construction practice with recent changes to AS 1288, the provision now applies to all glazing (including windows) in bathrooms, ensuites and spa rooms. Consequently, the title has been amended to "Bathroom, ensuite and spa room glazing" to more closely reflect the contents of the amended provision.
	Due to the renumbering of the tables in Part 3.6, the references to Table 3.6.3 have been amended to Table 3.6.4 and the reference to Table 3.6.5 has been amended to Table 3.6.6.
	Other minor amendments have been made to align the acceptable construction practice with recent changes to AS 1288.
Figure 3.6.3	Figure amended to reflect the changes to the acceptable construction practice.
3.6.4.6	As part of aligning the acceptable construction practice with recent changes to AS 1288, a new provision has been added requiring glass to be made visible where it could be mistaken for a doorway or opening.
Part 3.7	
3.7.1.1	Refer commentary for Clause 3.1.1.0.
3.7.1.7(b)	Rainwater tanks deleted from sub-clause (b)(iii) and inserted in sub-clause (b)(i) so that non-combustible rainwater tanks may be installed within 450 mm of an allotment boundary or within 900 mm of another building on the same allotment.

3.7.1.8(f), (g), (h) and (i)	New Deemed-to-Satisfy Provisions added for penetration by electrical wires and cables and electrical switches and outlets in separating walls between Class 1 buildings. The provisions are based on Specification C3.15 of Volume One.
Figure 3.7.1.11(c)	Figure inserted to illustrate the provisions in 3.7.1.8 for packing in hollow walls at electrical outlets.
3.7.2.1	Refer commentary for Clause 3.1.1.0.
3.7.3.1	Refer commentary for Clause 3.1.1.0.
3.7.4.0 State and Territory variation	NSW provisions for construction in bushfire prone areas updated.
3.7.4.1	Refer commentary for Clause 3.1.1.0.
3.7.4.2 State and Territory variation	NSW provisions for construction in bushfire prone areas updated.
3.7.4.2 State and Territory variation	South Australian variation amended to include reference to South Australian Development Plans.
3.7.5.1	Refer commentary for Clause 3.1.1.0.
Part 3.8	
3.8.1.0	The words "or water resistant" have been included because AS 3740 requires wet areas to be either waterproof or water resistant.
3.8.1.1	Refer commentary for Clause 3.1.1.0.
Table 3.8.1.1	To assist in the readability of the table, its format has been changed and some provisions have been repeated for clarity and to keep each entry self-contained.
3.8.2.1	Refer commentary for Clause 3.1.1.0.
3.8.3.1	Refer commentary for Clause 3.1.1.0.
3.8.4.1	Refer commentary for Clause 3.1.1.0.
Part 3.8.5 Explanatory Information	The wording of the explanatory information has been amended to be consistent with the explanatory information for 3.7.2.5 which also refers to the energy efficiency provisions.
3.8.5.0	The acceptable construction manual requirement for exhaust fans from sanitary compartments, laundries and bathrooms has been removed as it is considered unnecessary for exhaust fans in these locations in houses to comply with the requirements of AS 1668.2. Accordingly, such exhaust fans must comply with the acceptable construction practice.
3.8.5.1	Refer commentary for Clause 3.1.1.0.
3.8.5.2(c)	As a consequence of the changes to the acceptable construction manual for ventilation, a new provision has been added allowing mechanical exhaust from sanitary compartments, laundries and bathrooms. No minimum ventilation rate has been included as this is considered self-regulated.
3.8.5.3(b)	As a consequence of the changes to 3.8.5.0 and the inclusion of 3.8.5.2(c), the reference to Part 3.8.5 is no longer necessary and has been deleted.
3.8.6.1	Refer commentary for Clause 3.1.1.0.
Part 3.9	
3.9.1.1	Refer commentary for Clause 3.1.1.0.
3.9.2.1	Refer commentary for Clause 3.1.1.0.
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3.9.2.3(g)	New provision added clarifying that glass balustrades must comply with AS 1288.
3.9.3.1	Refer commentary for Clause 3.1.1.0.
Additional swimming pool requirements State and Territory variation	Variations for the ACT, NSW, SA and Tas have been deleted as they refer to additions to the BCA, not variations. The information on these additions is contained in the explanatory information appearing immediately before the current variations.
Part 3.10	
3.10.1.0(d)	Reference to AS 3623 replaced by NASH Standard — "Residential and low-rise steel framing" due to advice that AS 3623 is no longer used by industry.
3.10.2.1	Refer commentary for Clause 3.1.1.0.
Part 3.11	
3.11.3(c)(iii)	Reference to AS 1170.3 replaced with AS/NZS 1170.3.
3.11.6(a)(ii)	Reference to AS 3623 replaced by NASH Standard — "Residential and low-rise steel framing" due to advice that AS 3623 is no longer used by industry.
3.11.6(k)	Provision deleted due to advice that AS 2867 is longer used by industry.
Part 3.12	
3.12.0	Application clause amended to more accurately link the Deemed-to-Satisfy Provisions to the relevant Performance Requirements.
3.12.0 State and Territory Variation	Reference to Victorian Practice Note 2006-55 deleted.
3.12.1.1(a)(i)	Clarification added that insulation need not be continuous across supporting members.
3.12.1.2(c)	Clarification added on where a thermal break is required in roofs.
Figure 3.12.1.1	Amended to rationalise the range of typical construction types and to show inherent Total R-Values of ventilated and unventilated roof spaces. Diagrams have been redrawn so that battens could be either metal or timber and to not show insulation in two places.
Figure 3.12.1.1 Notes	Note 1 moved to explanatory information. Other notes have been re-numbered and clarification added for when there is a roof space and when there is no roof space.
Figure 3.12.1.1 Explanatory information	Clarification added of how the Total R-Values vary with the loss of an airspace or the changing of the ventilation rate of a roof space. Other minor clarification added.
3.12.1.4(b)	Sub-clause reformatted to provide another concession for external walls where there is a concrete slab-on-ground and there is another storey above.
Table 3.12.1.3	Additional options added for walls in climate zone 2.
3.12.1.4(c)	Clarification added that the clause applies storey by storey and that the sum of the conductance is the maximum required.
3.12.1.4(c) Explanatory information	Example reworked for clarity.
3.12.1.4(d)	Clarification added on where a thermal break is required in walls.
3.12.1.4(d) Explanatory information	Clarification added on where a thermal break is required in walls.

Figure 3.12.1.3	Clarification added as to whether the values include an airspace or not. Diagrams also redrawn so that battens could be either metal or timber and to not show insulation.
Figure 3.12.1.3 Explanatory information	Clarification added of how the Total R-Values vary with the loss of a wall cavity or airspace.
3.12.1.5(a)(ii)	The provision has been extended to include in-slab cooling systems.
Figure 3.12.1.4	Diagrams redrawn so that bearers and joists could be either metal or timber and to not show insulation.
Figure 3.12.1.4 Explanatory information	Clarification added that the element being referred to is a membrane and not bulk insulation.
3.12.1.5(c)	The provision has been extended to include in-slab cooling systems.
Figure 3.12.2.1 Explanatory information	Additional notes added to assist in understanding the diagram. Clarification added about the orientation of a wall or glazing element.
3.12.3(b)	For consistency with Volume One, clarification added that a building opening for a gas appliance must be the permanent one required by the gas installation standard.
3.12.3 State and Territory variation	South Australian variation amended to exclude permanent ventilation openings necessary for the safe operation of a gas appliance.
3.12.3.0	The acceptable construction manual for sealing of windows has been deleted as compliance with AS 2047 has been included in the acceptable construction practice at 3.12.3.3(b).
3.12.3.3(b)	AS 2047 has been included as an option in the acceptable construction practice for sealing of windows.
3.12.4.2 Explanatory information	New explanatory information added clarifying suitable openings in a breeze path.
3.12.5.0	Application clause amended to more accurately link the Deemed-to-Satisfy Provisions to the relevant Performance Requirements. Explanatory information added to draw attention to the application clause at 3.12.0.
3.12.5.0 State and Territory variation	Minor amendments have been made to the South Australian variation in line with the amendments to 3.12.5.0 in the main BCA.
Table 3.12.5.2	Changes made to the format, terminology and Total R-Values as a result of practitioner enquiries and an industry submission.
Table 3.12.5.2 Explanatory information	Additional information added on methods of achieving the required Total-R Values.
State and Territory Additions	- ACT
ACT 6.1	Provisions dealing with swimming pool surfaces and concourses deleted.
Footnote: Other legislation affecting buildings	The footnote has been updated.
State and Territory Additions	- New South Wales
NSW 2	Updated to reflect changes to the application and implementation of BASIX.
NSW P2.6.1(a)	Application of Performance Requirement simplified.
NSW P2.6.1 Explanatory Information	Explanatory information updated.
NSW 3.12.1	Application of provisions updated.
NSW 3.12.1.1	Provisions for thermal breaks simplified.

NSW 3.12.3.1	Cross-reference to provisions expanded to include 3.12.3.6.		
State and Territory Additions - Queensland			
QLD 2	Part deleted. The result is that Queensland has no additions to the Housing Provisions.		
State and Territory Additions - South Australia			
Part SA 2	Minor amendments to Part to clarify intent.		
SA 4.2.1	Additional information added clarifying that for the purposes of clause 5.1 of AS 1926.3, a skimmer box is an outlet.		
State and Territory Additions - Victoria			
Vic 1.2.1	Reference to Vic Part 1.2 changed to Vic 1.2.		
Special requirements for certain buildings and components	References to approval authorities and relevant legislation updated.		
History of BCA Adoption			
Table 4.0	Table updated to include relevant adoption dates in South Australia.		
5.0	Clause 5.0 and Table 5.0 have been added in order to set out the adoption dates of the 2007 edition of the BCA in each State and Territory and to summarise the purpose of the changes from BCA 2006.		