



Volume Two



Building Code of Australia

2019

Amendment 1

Summary and Instructions

NCC 2019 Amendment 1

NCC 2019 Amendment 1 includes:

- an amendment to require (from 1 July 2021) that a process be followed to improve the quality of Performance Solutions and the supporting documentation;
- a new provision in NCC Volume One regarding egress from early childhood centres;
- an update to the Governing Requirements for all Volumes to require labelling of aluminium composite panels in accordance with SA Technical Specification 5344;
- clarification of the concession in NCC Volume One that permits the use of timber framing for low-rise Class 2 and 3 buildings;
- clarification in NCC Volume Two that the anti-ponding board requirements only apply to roofs where sarking is installed; and
- correction of minor errors.

NCC 2019 Amendment 1 is adopted from 1 July 2020.

The 2019 edition of NCC Volume Two is amended by Amendment 1 as follows:

Add A2.2(4) of Part A2 and Note (after A2.2(3)) as follows:

A2.2 Performance Solution

- (4) Where a *Performance Requirement* is proposed to be satisfied by a *Performance Solution*, the following steps must be undertaken:
- (a) Prepare a *performance-based design brief* in consultation with relevant stakeholders.
 - (b) Carry out analysis, using one or more of the *Assessment Methods* listed in (2), as proposed by the *performance-based design brief*.
 - (c) Evaluate results from (b) against the acceptance criteria in the *performance-based design brief*.
 - (d) Prepare a final report that includes—
 - (i) all *Performance Requirements* and/or *Deemed-to-Satisfy Provisions* identified through A2.2(3) or A2.4(3) as applicable; and
 - (ii) identification of all *Assessment Methods* used; and
 - (iii) details of steps (a) to (c); and
 - (iv) confirmation that the *Performance Requirement* has been met; and
 - (v) details of conditions or limitations, if any exist, regarding the *Performance Solution*.

Note:

A2.2(4) does not take effect until 1 July 2021.

Add to Explanatory information for Part A2 as follows:

A2.4(2)(a) references A2.2. Therefore when using a combination of *Performance Solutions* and *Deemed-to-Satisfy Solutions* it is necessary to comply with A2.2(4) where a *Performance Requirement* is proposed to be satisfied by a *Performance Solution*.

Add A5.7 (after A5.6) of Part A5 as follows:

A5.7 Labelling of Aluminium Composite Panels

An *Aluminium Composite Panel* must be labelled in accordance with SA TS 5344.

Delete 3.1.3.1(a) and insert Part 3.1.3.1(a) as follows:

3.1.3.1 Application

- (a) roofs in areas subject to 5 minute duration rainfall intensities of not more than 255 mm per hour over an *average recurrence interval* of 20 years (as per Tables 3.5.3.1a to 3.5.3.1h) where a drainage system is *required*; and

Delete Part 3.1.3.3(a) and insert Part 3.1.3.3(a) as follows:

3.1.3.3 Surface water drainage

- (a) Slab-on-ground — finished ground level adjacent to buildings:
the external finished surface surrounding the slab must be drained to move *surface water* away from the building and graded to give a slope of not less than (see Figure 3.1.3.2)—
- (i) 25 mm over the first 1 m from the building in *low rainfall intensity areas* for surfaces

- that are reasonably impermeable (such as concrete or clay paving); or
- (ii) 50 mm over the first 1 m from the building in any other case.

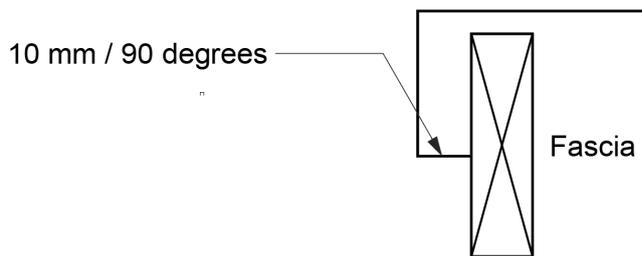
In Table 3.2.5.5c, delete third row (starting with “articulated full masonry”) and insert row as follows:

Table 3.2.5.5c Reinforcement for stiffened raft footings for Class H sites

Articulated masonry veneer	500	3-L12TM	4.0	SL82	SL82	SL92
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Delete Figure 3.5.1.5(b) and insert Figure 3.5.1.5(b) as follows:

Figure 3.5.1.5 Anti-capillary breaks



(b) Fascia flashing

Delete 3.5.2.5(a) and insert 3.5.2.5(a) as follows:

3.5.2.5 Anti-ponding device/board

- (a) An anti-ponding device/board must be provided where sarking is installed on—
- (i) roofs with a pitch less than 20°; and
 - (ii) roofs with no eaves overhang, regardless of the roof pitch.

Delete 3.5.3.1(a) and insert 3.5.3.1(a) as follows:

3.5.3.1 Application

- (a) Compliance with this acceptable construction practice satisfies [Performance Requirement P2.2.1](#) for gutters and downpipes provided the roof drainage system is connected to a stormwater drainage system that complies with [Part 3.1.3](#).

In Table 3.5.3.3a, delete second row below header (row starting with 175 mm/h) and insert second row below header as follows:

Table 3.5.3.3a Overflow volume for continuous measure (L/s/m)

175 mm/h	0.10 L/s/m	0.19 L/s/m	0.29 L/s/m	0.39 L/s/m	0.49 L/s/m	0.58 L/s/m	0.68 L/s/m	0.78 L/s/m
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In Explanatory information following Table 3.5.3.4b, delete formula to “For front face weir, end stop weir, inverted nozzle, front bead or controlled gap” and insert formula as follows:

Explanatory information:

For front face weir, end stop weir, inverted nozzle, front bead or controlled gap

$$Q = 0.67 C_d b \sqrt{2g} h^{1.5}$$

Where—

b = Width (m)

C_d = Discharge coefficient = 0.63 g = Gravity = 9.81 m/s²

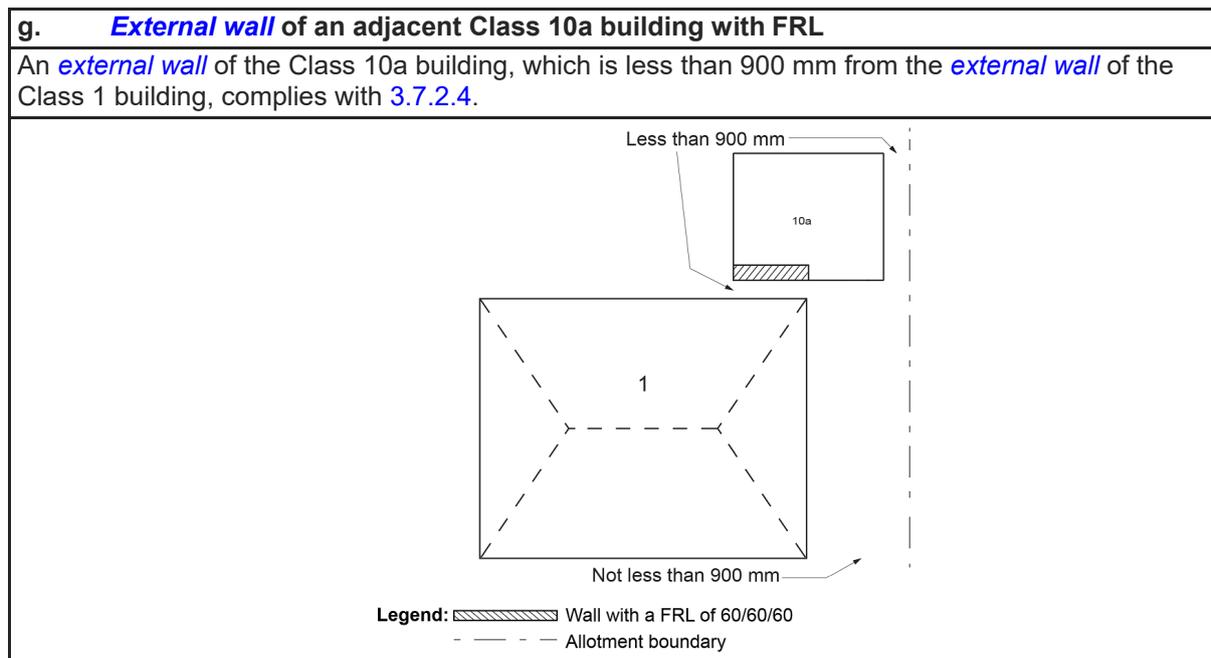
h = Effective head (m) Q = Flow rate (m³/s)

Delete 3.7.2.4(d) and insert 3.7.2.4(d) as follows:

3.7.2.4 Construction of external walls

- (d) The requirements of (c) do not apply to a *window* in a non-*habitable room* that is located adjacent to and not less than 600 mm from the boundary of an adjoining allotment or 1200 mm from another building on the same allotment provided that—
- (i) in a bathroom, laundry or toilet, the opening has an area of not more than 1.2 m²; or
 - (ii) in a room other than one referred to in (i), the opening has an area of not more than 0.54 m² and—
 - (A) the *window* is steel-framed, there are no opening sashes and it is glazed in wired glass; or
 - (B) the opening is enclosed with translucent hollow glass blocks.

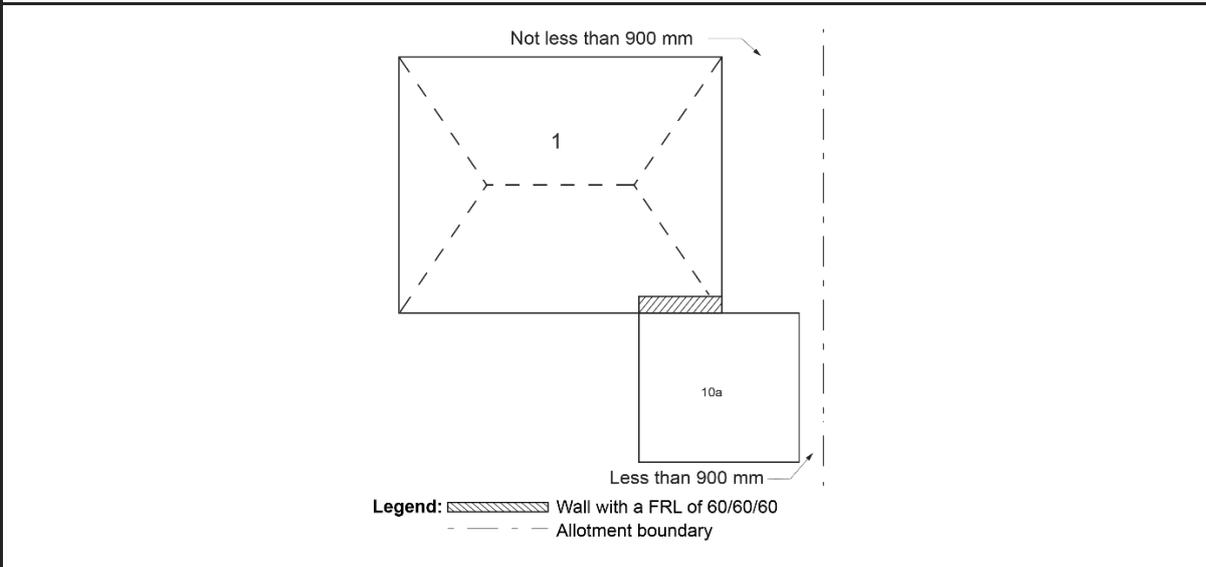
Delete Figure 3.7.2.4g of Part 3.7.2 and insert Figure 3.7.2.4g as follows:



Delete Figure 3.7.2.4h and insert Figure 3.7.2.4h as follows:

h. Class 1 building with FRL to external wall

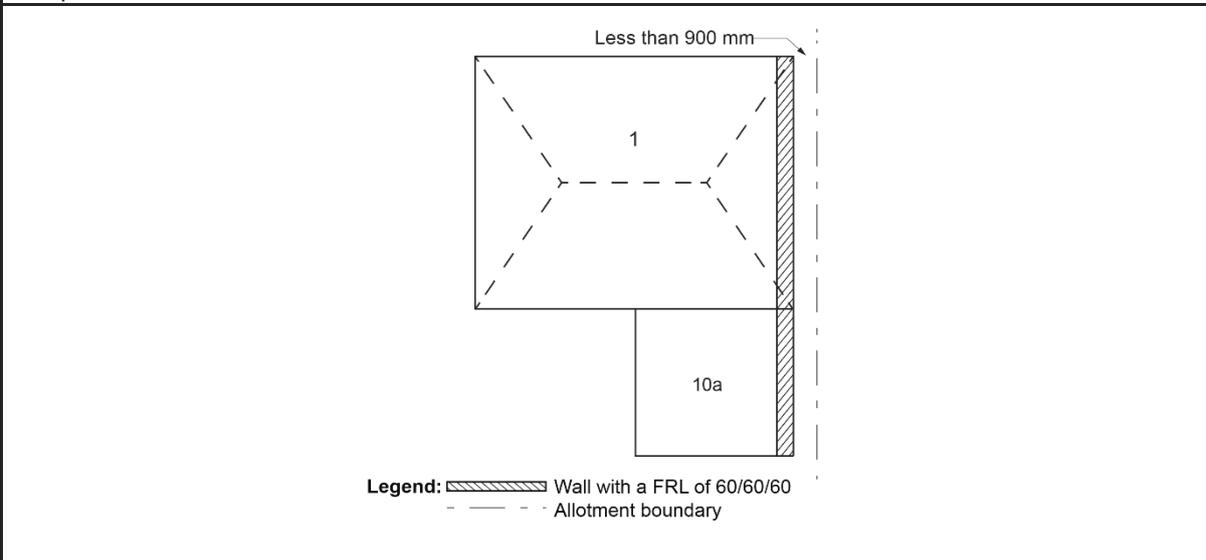
An *external wall* of the Class 1 building, which is less than 900 mm from a Class 10a building that is situated less than 900 mm from an allotment boundary, complies with 3.7.2.4.



Delete Figure 3.7.2.4i and insert Figure 3.7.2.4i as follows:

i. External wall to Class 10a building with FRL

The *external wall* of the Class 1 and Class 10a building which are less than 900 mm from an allotment boundary, other than the boundary adjoining a road alignment or other public space, complies with 3.7.2.4.



In the State and Territory Variations box of Part 3.8.7, delete the Tasmania variation and insert the Tasmania variation as follows:

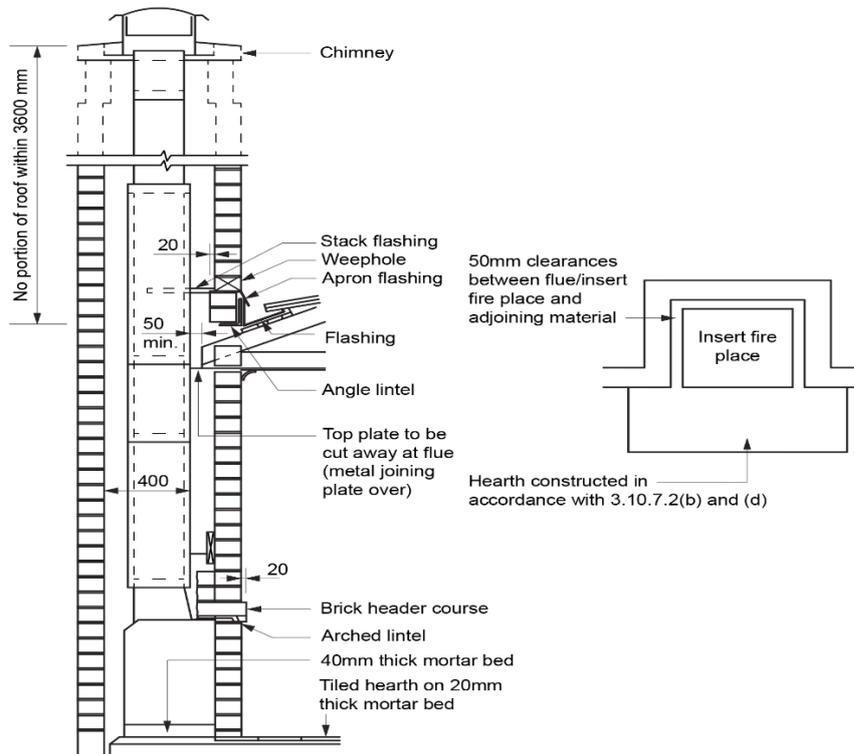
3.8.7 Condensation management

State and Territory Variations

In Tasmania insert the following Note: Refer to the guidance in the “Condensation in Buildings Tasmanian Designers’ Guide – Version 2” that should be adhered to where possible.

Delete Figure 3.10.7.3 and insert Figure 3.10.7.3 as follows:

Figure 3.10.7.3 Typical installation of fireplace flue inserts



Add the following abbreviation and definition to Schedule 2 as follows:

Schedule 2 Abbreviations and symbols

Abbreviation	Definition
ACP	Aluminium Composite Panel

Add or amend the following terms and definition in Schedule 3 as follows:

Schedule 3 Definitions

Add the term "Aluminium Composite Panel (ACP) and its definition (after "Alteration") as follows:

Aluminium Composite Panel (ACP) means flat or profiled aluminium sheet material in composite with any type of materials.

Delete definition of Farm building and insert definition of Farm building as follows:

Farm building means a Class 7 or 8 building located on land primarily used for *farming*—

- (a) that is—
 - (i) used in connection with *farming*; or
 - (ii) used primarily to store one or more *farm vehicles*; or
 - (iii) a combination of (i) and (ii); and
- (b) in which the total number of persons accommodated at any time does not exceed one person per 200 m² of *floor area* or part thereof, up to a maximum of 8 persons; and

- (c) with a total **floor area** of not more than 3500 m².

Delete definition of Farm shed and insert definition of Farm shed as follows:

Farm shed means a single **storey** Class 7 or 8 building located on land primarily used for **farming**—

- (a) that is—
- (i) used in connection with **farming**; or
 - (ii) used primarily to store one or more **farm vehicles**; or
 - (iii) a combination of (i) and (ii); and
- (b) occupied neither frequently nor for extended periods by people; and
- (c) in which the total number of persons accommodated at any time does not exceed 2; and
- (d) with a total **floor area** of more than 500 m² but not more than 2000 m².

Delete definition of Performance-based design brief (PBDB) and insert definition of Performance-based design brief (PBDB) as follows:

Performance-based design brief (PBDB) means the process and the associated report that defines the scope of work for the performance-based analysis, the technical basis for analysis, and the criteria for acceptance of any relevant **Performance Solution** as agreed by stakeholders.

In Table 1 of Schedule 4, insert new row (after row starting with “N/A” and before “TN 61”) as follows:

Table 1 Schedule of referenced documents

No.	Date	Title	Volume One	Volume Two	Volume Three
SA TS 5344	2019	Permanent labelling for Aluminium Composite Panel (ACP) products	A5.7	A5.7	A5.7

In History of Adoption, Add 15.1 (after Clause 15.0) as follows:

15.1 Amendment No. 1

- (a) Amendment 1 to the 2019 edition of NCC Volume Two was adopted by the Commonwealth, States and Territories as set out in **Table 15.1**.

Table 15.1 History of adoption of NCC 2019 Volume Two Amendment 1

Administration	Adoption Date
Australian Government	1 July 2020
Australian Capital Territory	1 July 2020
New South Wales	1 July 2020
Northern Territory	1 July 2020
Queensland	1 July 2020
South Australia	1 July 2020
Tasmania	1 July 2020
Victoria	1 July 2020
Western Australia	1 July 2020

- (b) The purpose of NCC Volume Two Amendment 1 is to—
- (i) require that a process be followed to improve the quality of and documentation for Performance Solutions; and
 - (ii) require labelling of Aluminium Composite Panels; and

(iii) clarify that anti-ponding board requirements only apply to roofs where sarking is installed.

Delete the List of Amendments for NCC 2019 Volume Two and insert the List of Amendments for NCC 2019 Volume Two Amendment 1 as follows:

List of Amendments—NCC 2019 Amendment 1—Housing provisions

This list has been prepared by the Australian Building Codes Board to assist National Construction Code (NCC) users in identifying changes incorporated in Amendment 1 to the 2019 edition of NCC Volume Two. The notes provide a description of major changes made from the previous edition of Volume Two.

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

List of Amendments

Reference	Changes and Commentary
A2.2(4)	A new sub-clause has been added to require a process be followed when undertaking a Performance Solution.
A5.7	A new provision has been added to require labelling of Aluminium Composite Panels.
Part 3.5 Clause 3.5.2.5	The provision has been amended to clarify when an anti-ponding device/board is required.
Schedule 2	An abbreviation, 'ACP', has been added for Aluminium Composite Panel.
Schedule 3	A defined term, 'Aluminium Composite Panel (ACP)', has been added.
Schedule 3	The defined term 'Performance-based design brief (PBDB)' has been amended on account of the introduction of A2.2(4).
Schedule 4	The 2019 edition of SA TS 5344 'Permanent labelling for Aluminium Composite Panel (ACP) products' has been referenced.