ABCB

National Construction Code

Volume Two

Building Code of Australia

2019

Amendment 1

Public Comment Draft

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Part 3.1.3 Drainage

Acceptable Construction Practice

3.1.3.1 Application

Compliance with this acceptable construction practice satisfies *Performance Requirement* P2.2.1 for drainage of—

(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.~~2~~3.1a to 3.5.3.1h) where a drainage system is *required*; and

(b) sub-soil areas where excessive soil moisture problems may occur; and

(c) land adjoining and under buildings,

provided the stormwater drainage system otherwise complies with the acceptable construction manual.

3.1.3.3 Surface water drainage

Surface water must be diverted away from Class 1 buildings as follows:

(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.~~2~~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.

(b) …

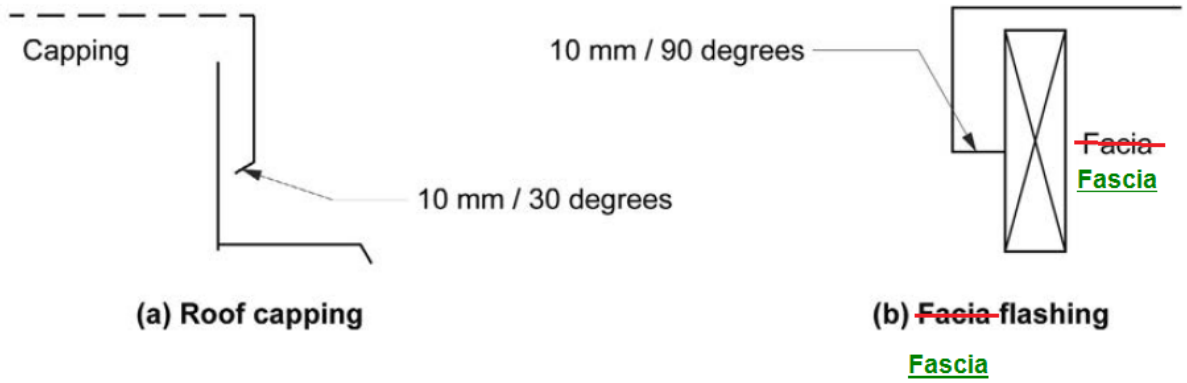
Table 3.2.5.5c Reinforcement for stiffened raft footings for Class H sites

Type of con-struction	Depth (D) (mm)	Bottom reinf.	Max. spacing c/l to c/l (m)	Slab mesh where slab length <18 m	Slab mesh where slab length <25 m	Slab mesh where slab length <30 m
Clad frame	400	3-L11TM	5.0 Note 2	SL72	SL82	SL92
~~Articulated full masonry~~ *Articulated masonry* veneer	500	3-L12TM	4.0	SL82	SL82	SL92
Masonry veneer	700	3-N16	4.0	SL92	SL92	SL92
Articulated full masonry	1000	4-N16	4.0	SL102	SL102	SL102
Full masonry	N/A	N/A	N/A	N/A	N/A	N/A

3.5.1.5 Flashings and cappings

(a) …

Figure 3.5.1.5 Anti-capillary breaks



(a) Roof capping

(b) ~~Facia~~ flashing

Fascia

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.~~2~~3.

(b) ...

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

Design 5 minute duration rainfall intensity (mm/h) (from Table 3.5.2.1a to Table 3.5.2.1h)	Ridge to gutter length — 2 m	Ridge to gutter length — 4 m	Ridge to gutter length — 6 m	Ridge to gutter length — 8 m	Ridge to gutter length — 10 m	Ridge to gutter length — 12 m	Ridge to gutter length — 14 m	Ridge to gutter length — 16 m
150 mm/h	0.08 L/s/m	0.17 L/s/m	0.25 L/s/m	0.33 L/s/m	0.42 L/s/m	0.50 L/s/m	0.58 L/s/m	0.67 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	~~0.67~~ 0.78 L/s/m
200 mm/h	0.11 L/s/m	0.22 L/s/m	0.33 L/s/m	0.44 L/s/m	0.56 L/s/m	0.67 L/s/m	0.78 L/s/m	0.89 L/s/m
225 mm/h	0.13 L/s/m	0.25 L/s/m	0.38 L/s/m	0.50 L/s/m	0.63 L/s/m	0.75 L/s/m	0.88 L/s/m	1.0 L/s/m
250 mm/h	0.14 L/s/m	0.28 L/s/m	0.42 L/s/m	0.56 L/s/m	0.69 L/s/m	0.83 L/s/m	0.97 L/s/m	1.1 L/s/m
275 mm/h	0.15 L/s/m	0.31 L/s/m	0.46 L/s/m	0.61 L/s/m	0.76 L/s/m	0.92 L/s/m	1.1 L/s/m	1.2 L/s/m
300 mm/h	0.17 L/s/m	0.33 L/s/m	0.50 L/s/m	0.67 L/s/m	0.83 L/s/m	1.0 L/s/m	1.2 L/s/m	1.3 L/s/m
325 mm/h	0.18 L/s/m	0.36 L/s/m	0.54 L/s/m	0.72 L/s/m	0.90 L/s/m	1.1 L/s/m	1.3 L/s/m	1.4 L/s/m
350 mm/h	0.19 L/s/m	0.39 L/s/m	0.58 L/s/m	0.78 L/s/m	0.97 L/s/m	1.2 L/s/m	1.4 L/s/m	1.6 L/s/m
375 mm/h	0.21 L/s/m	0.42 L/s/m	0.63 L/s/m	0.83 L/s/m	1.0 L/s/m	1.3 L/s/m	1.5 L/s/m	1.7 L/s/m
400 mm/h	0.22 L/s/m	0.44 L/s/m	0.67 L/s/m	0.89 L/s/m	1.1 L/s/m	1.3 L/s/m	1.6 L/s/m	1.8 L/s/m

Explanatory information:

…

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

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

Where—

b = Width (m)

C_d = Discharge coefficient = 0.63

g = Gravity = 9.81 m/s^2

h = Effective head (m)

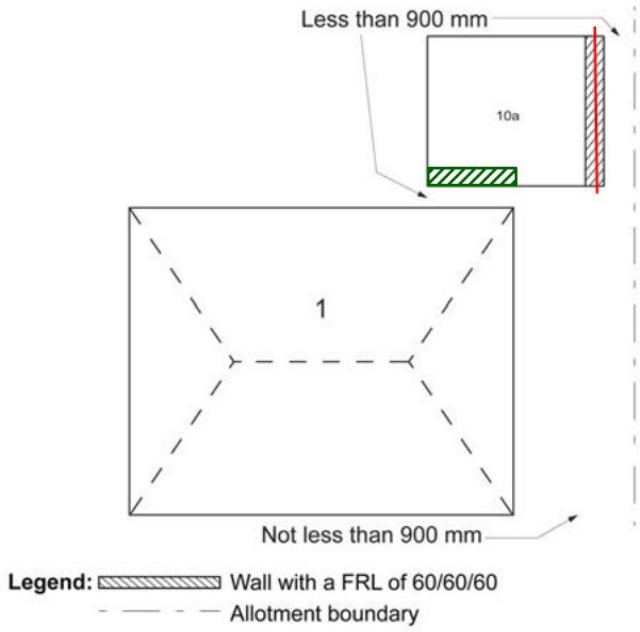
Q = Flow rate (m^3/s)

3.7.2.4 Construction of external walls

(a) …

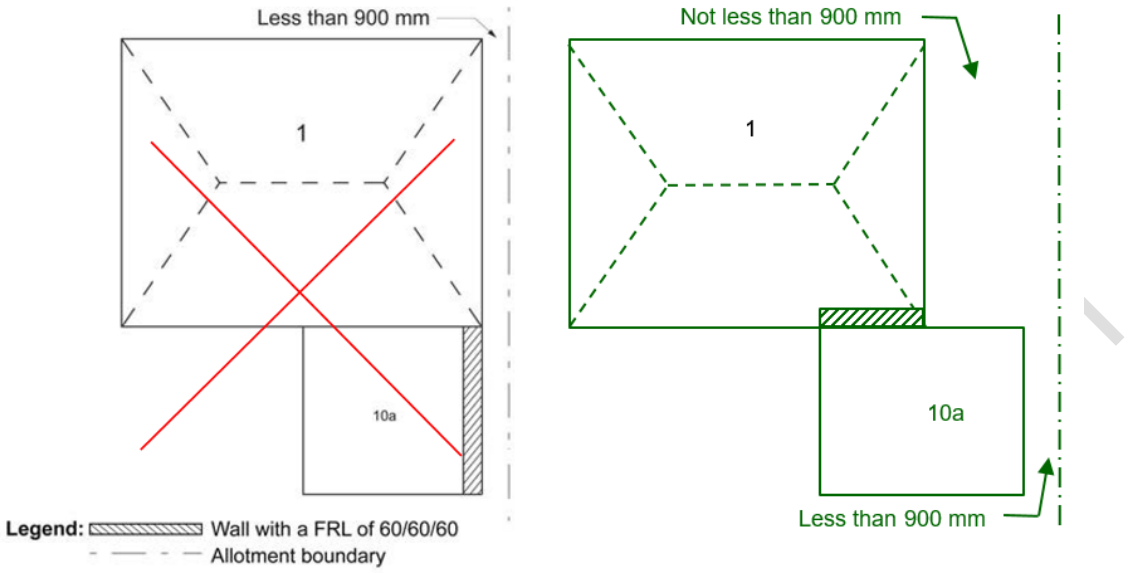
(d) The requirements of (c) do not apply to a *window* in a non-*habitable room* that is located adjacent to and not less than 600 mm from the boundary of an adjoining allotment or 1200 mm from another building on the same allotment provided that…

Figure 3.7.2.4 Protection of Class 1 buildings—Class 10a between Class 1 and the allotment boundary

a. 900 mm from allotment boundary
….
g. *External wall* of an adjacent Class 10a building with FRL
An *external wall* of the Class 10a building, which is less than 900 mm from the *external wall* of the Class 1 building, complies with 3.7.2.4.


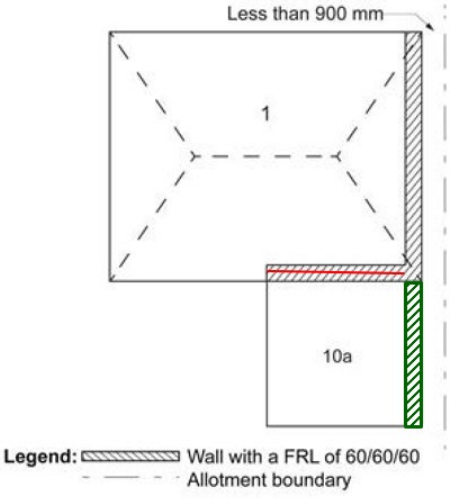
h. Class 1 building with FRL to *external wall*

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.



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.



Part 3.8.7 Condensation management

State and Territory Variations

In Tasmania insert the following Note: Refer to the guidance in the "~~Guide for Control of Condensation and Mould in Tasmanian Homes~~ Condensation in Buildings Tasmanian Designers' Guide – Version 2" that should be adhered to where possible.

In the Australian Capital Territory:

See the ACT Appendix for further information on condensation management in the ACT.

Figure 3.10.7.3 Typical installation of fireplace flue inserts