

## Discharge from Exits - Memorandum

**To:** Department of Planning & Environment

**Date:** 17/5/2022

**From:** Matthew Stewart

**Project No:** 00121

**Project:** Replacement of Front External Stairs & Construction of Bike Storage.

**Doc No:** 00121- Memo

As requested by the Department of Planning and Environment, the owners of Munjarra Ski Club have engaged Complete Certification Pty Ltd to assess the discharge from the exits at the rear of the existing building for compliance to BCA Clause D1.10. Upon satisfactory completion of the recommendations specified in this Memorandum the egress from the rear exits provided to the building will satisfy requirements of the Code.



**Recommendation 1** - Rectification of discharge to street from Ramp 2 to be compliant to BCA clause D1.10.

- i) Provide compliant stairs at the end of Ramp 2 to comply with the requirements of D1.10. The stair is to be a minimum of 1m wide.
- ii) The goings and risers are to comply to the requirements of D2.13.  
(Excerpt provided in appendix 2 of this report)

a) The riser and going dimensions are to comply to the requirements of Table D2.13.

Table D2.13 Riser and going dimensions

Stairway location	Riser (R)	Going (G) <sup>Note 3</sup>	Quantity (2R+G)
Public	Max: 190 mm Min: 115 mm	Max: 355 mm Min: 250 mm	Max: 700 mm Min: 550 mm

- b) Treads are to be provided with grid mesh as required by G4.5.
- c) The stair treads must have nosing strip with compliant slip resistance to table D2.14.
- d) The stairs are not permitted to be provided with a winder in lieu of a landing.
- iii) A barrier to prevent falls is to be constructed alongside the new stair from ramp 2 to comply to BCA clause D2.16.



Goings and Risers to comply to D2.13



Install Barrier to comply to BCA clause D2.16.



### Recommendation 2. – Wood Store

- 1) Relocate the wood store to provide 1 metre clearance for the path of travel to the external stairs.
- 2) Reconstruct the wood store to be compliant with Flame Zone Construction as per AS3959. Construction of Buildings in Bushfire Prone Areas.



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18/5/2022

## Appendix 1

### D1.10 Discharge from exits

- (a) An *exit* must not be blocked at the point of discharge and where necessary, suitable barriers must be provided to prevent vehicles from blocking the *exit*, or access to it.
  - (b) If a *required exit* leads to an *open space*, the path of travel to the road must have an unobstructed width throughout of not less than—
    - (i) the minimum width of the *required exit*, or
    - (ii) 1 m,
 whichever is the greater.
  - (c) If an *exit* discharges to *open space* that is at a different level than the public road to which it is connected, the path of travel to the road must be by—
    - (i) a ramp or other incline having a gradient not steeper than 1:8 at any part, or not steeper than 1:14 if *required* by the *Deemed-to-Satisfy Provisions* of Part D3; or
    - (ii) except if the *exit* is from a Class 9a building, a stairway complying with the *Deemed-to-Satisfy Provisions* of the BCA.
  - (d) The discharge point of alternative *exits* must be located as far apart as practical.
  - (e) In a Class 9b building which is an *open spectator stand* that accommodates more than 500 persons, a *required* stairway or *required* ramp must not discharge to the ground in front of the stand.
- NSW D1.10(f)*
- (f) In a Class 9b building containing an auditorium which accommodates more than 500 persons, not more than  $\frac{2}{3}$  of the *required* width of *exits* must be located in the main entrance foyer.
  - (g) The number of persons accommodated must be calculated according to D1.13.

### D2.13 Goings and risers

- (a) A stairway must have—
  - (i) not more than 18 and not less than 2 risers in each *flight*; and
  - (ii) going (G), riser (R) and quantity (2R + G) in accordance with Table D2.13, except as permitted by (b) and (c); and
  - (iii) constant goings and risers throughout each *flight*, except as permitted by (b) and (c), and the dimensions of goings (G) and risers (R) in accordance with (a)(ii) are considered constant if the variation between—
    - (A) adjacent risers, or between adjacent goings, is no greater than 5 mm; and
    - (B) the largest and smallest riser within a *flight*, or the largest and smallest going within a *flight*, does not exceed 10 mm; and
  - (iv) risers which do not have any openings that would allow a 125 mm sphere to pass through between the treads; and
  - (v) treads which have—
    - (A) a surface with a slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with AS 4586; or
    - (B) a nosing strip with a slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with AS 4586; and
  - (vi) treads of solid construction (not mesh or other perforated material) if the stairway is more than 10 m high or connects more than 3 *storeys*; and
  - (vii) in a Class 9b building, not more than 36 risers in consecutive *flights* without a change in direction of at least 30°; and
  - (viii) in the case of a *required* stairway, no winders in lieu of a landing.