Master Specification Part RD-BF-C4

Supply and Installation of Fencing and Gates

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Roads Contents

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RD-BF-C4 Supply and Installation of Fencing and Gates

1 General

- a) This Master Specification Part specifies the requirements for the supply and installation of ringlock, pedestrian and chain-link fencing and gates, including:
 - i) the ringlock fencing requirements, as set out in section 2;
 - ii) the pedestrian safety fencing requirements, as set out in section 3;
 - iii) the chain link fencing requirements, as set out in section 4; and
 - iv) the Hold Point requirements, as set out in section 5.
- b) All fences and gates forming part of the Works must comply with the Reference Documents, including:
 - i) AS 1725 Chain-link fabric fencing;
 - ii) AS 2700 Colour standards for general purposes; and
 - iii) AS/NZS 1604.1 Preservative-treated wood-based products, Part 1: Products and treatment.
- c) All fences and gates forming part of the Works must:
 - i) be installed in accordance with the manufacturer's instructions; and
 - ii) where installed on a property boundary, not have any part of the fence or gate (as applicable) installed outside the line of the boundary.
- d) Unless specified otherwise in the Contract Documents, any redundant existing gates or fencing must become the property of the Contractor and must be removed and disposed of offsite.

2 Ringlock fencing

2.1 General

Ringlock fencing installed as part of the Works must comply with the requirements of this section 2.

2.2 Materials

Ringlock fencing materials must comply with the following requirements:

- a) mesh wire must be ringlock or equivalent;
- b) plain wire must be:
 - i) 2.8 mm in diameter;
 - ii) high tensile; and
 - iii) standard galvanized;
- c) barbed wire must be:
 - i) 1.5 mm in diameter;
 - ii) high tensile; and
 - iii) standard galvanized;
- d) droppers must:

- i) be of a star dropper type;
- ii) be manufactured of steel "Y" sections;
- iii) be 1,500 mm long;
- iv) have a painted finish;
- v) have a pointed end;
- vi) have wire seating slots at the top; and
- vii) have engager holes spaced to match each of the horizontal fence wires; and
- e) posts must be:
 - i) a minimum of 100 mm in diameter;
 - ii) 1.8 m long; and
 - iii) preservative treated timber in accordance with AS/NZS 1604.1 Preservative-treated wood-based products, Part 1: Products and treatment.

2.3 Installation

The installation of ringlock fencing must comply with the following requirements:

- a) posts and droppers (as applicable) must be installed at intervals as specified in the Design Documentation;
- b) the minimum embedment post depth must be 600 mm;
- c) posts must be driven into the ground where practicable. Where it is not practicable to drive posts into the ground, post holes must be pre-drilled and the hole firmly backfilled after placing of the posts;
- d) where pre-drilling specified in section 2.3c) is utilised, and the Contractor is unable to penetrate the material with a large tractor mounted post-hole borer, the Principal must be immediately notified, and the Contractor must propose an alternative methodology, which will constitute a **Hold Point**. Installation of that post must not continue until the Hold Point has been released;
- e) fencing must be provided over all terrain, including creeks;
- f) fencing must be installed in a stock proof configuration and must tie in with existing fencing where applicable; and
- g) box strainers must be installed:
 - i) at 200 m intervals;
 - ii) at the end of each run of new fence; and
 - iii) at every change in direction.

3 Pedestrian safety fencing

- a) Where pedestrian safety fencing (fencing used adjacent to pedestrian paths and medians to direct people away from hazards and guide them to a safer location) is installed as part of the Works, it must comply with the requirements of this section 3 and the Design Documentation.
- b) For the avoidance of doubt, pedestrian safety fencing does not apply to bicycle paths and shared paths, is not designed to stop an errant vehicle, and must not be used as an alternative to a road safety barrier.
- c) Pedestrian safety fencing must be:
 - i) tubular loop fencing; and

- ii) erected in accordance with the manufacturer's instructions.
- d) Pedestrian safety fencing materials must:
 - i) consist of galvabond tubing; and
 - ii) be of the following dimensions:
 - A. uprights: outside diameter of 19.0 mm, thickness of 1.2 mm; and
 - B. cross rails: outside diameter of 31.8 mm, thickness of 1.6 mm.
- e) The height of all pedestrian safety fencing must be 1,200 mm.
- f) Fence posts must:
 - i) have a minimum embedment depth of 600 mm;
 - ii) have 200 mm diameter post holes; and
 - iii) have concrete flush with the finished ground surface.
- g) Pedestrian safety fencing must be in accordance with AS 2700 Colour standards for general purposes.
- h) All pedestrian safety fencing including welds must be powder coated.

4 Chain link fencing

Chain link fencing installed as part of the Works must:

- a) comply with the requirements of AS 1725 Chain link fabric fencing;
- b) have steel fence posts that are:
 - i) 50 mm in diameter; and
 - ii) set in concrete at 3 m intervals;
- c) have epoxy coating applied to posts and chain link mesh; and
- d) have a minimum height of 1,800 mm, unless specified otherwise in the Contract Documents.

5 Hold Points

Table RD-BF-C4 5-1 details the review period or notification period, and type (documentation or construction quality) for each Hold Point referred to in this Master Specification Part.

Table RD-BF-C4 5-1 Hold Points

Section reference	Hold Point	Documentation or construction quality	Review period or notification period
2.3d)	Unable to penetrate the material with the post-hole borer	Documentation	2 Business Days review