

# Roads

## Master Specification

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

#### Document Information

K Net Number:	13523972
Document Version:	2
Document Date:	August 2020

DEPARTMENT FOR  
INFRASTRUCTURE  
AND TRANSPORT



Government of South Australia

Department for Infrastructure  
and Transport

## Document Amendment Record

Version	Change Description	Date	Endorsement record (KNet ref.)
1	Initial issue (formerly R86)	28/06/19	
2	Formatting for publishing	August 2020	

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

### 1 General

- 1.1 This Part specifies the requirements for the supply and installation of Ringlock fencing, pedestrian fencing and chain-link fencing. The location and configuration of the fencing must be as stated in the Contract Documents or on the drawings. All fences must be installed in accordance with the manufacturer's instructions.
- 1.2 When installed on a boundary, fence components must not be installed outside the line of the boundary.
- 1.3 Unless specified otherwise, any redundant existing fencing must become the property of the Contractor and must be removed and disposed of offsite.

### 2 Ringlock Fencing

- 2.1 This clause applies where Ringlock fencing is specified.

#### Materials

- 2.2 Mesh wire must be Boral Ringlock or similar approved.
- 2.3 Plain wire must be 2.8 mm high tensile, standard galvanized.
- 2.4 Barbed wire must be 1.5 mm high tensile wire, standard galvanized.
- 2.5 Droppers must be star droppers, manufactured of steel "Y" section 1 500 mm long with a painted finish, a pointed end and wire seating slots at the top. Engager holes must be spaced to match each of the horizontal fence wires.
- 2.6 Posts must be 100 mm minimum diameter, 1.8 m long, preservative treated in accordance with AS 1604.1 "Specification for Preservative Treatment, Part 1 Sawn and Round Timber".

#### Installation

- 2.7 Posts and droppers (if any) must be installed at intervals as specified in the Contract Documents or on the Drawings. The minimum depth of embedment of posts must be 600 mm. Posts must be driven into the ground where practicable. Alternatively, post holes must be pre-drilled and the hole firmly backfilled after placing of the post.
- 2.8 The Contractor is deemed to have allowed for pre-drilling with a large tractor mounted post-hole borer. The Contractor must provide immediate notification if the material cannot be penetrated with the posthole borer.
- 2.9 The fence must be constructed over any terrain, including creeks, in a stock proof configuration and must tie in with existing fencing as required.
- 2.10 Box strainers must be installed at 200 m intervals, at the end of each run of new fence, or at every change in direction.

### 3 Pedestrian Safety Fence

- 3.1 This clause applies where pedestrian safety fencing is specified.
- 3.2 Pedestrian safety fence must be tubular loop fencing, Belmont, or similar approved, erected in accordance with the manufacturer's instructions,
- 3.3 Fencing materials must consist of galvabond tubing of the following dimensions:
  - a) Uprights: Outside diameter 19.0 mm, 1.2 mm thick.
  - b) Cross rails: Outside diameter 31.8 mm, 1.6 mm thick.

- 3.4 The height of the fence must be 1200 mm.
- 3.5 Fence posts must have a minimum embedment depth of 600 mm. Post holes must be 200 mm diameter. Concrete must only be placed around the bottom 200 mm of the fence post and the top 100 mm flush with the finished ground surface. The post holes must not have continuous concrete backfill.
- 3.6 The colour of the pedestrian safety fence must be the colour specified in the Contract Documents or on the drawings and in accordance with AS 2700 "Colour Standards for General Purposes".
- 3.7 All welds must be powder coated.

## 4 Chain Link Fence

- 4.1 This clause applies where chain link fencing is specified.
  - 4.2 The chain link fence must comply with AS 1725 "Galvanized Rail-less Chainwire Security Fences and Gates".
  - 4.3 The fence posts must be 50 mm diameter steel posts set in concrete at 3 m centres. Posts and chain link mesh must be epoxy coated. The height and colour of the fence must be as specified in the Contract Documents or on the drawings.
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