

SECURITY AND BARRIER FENCING

Security and barrier fencing is often required in or immediately adjacent to public open space to delineate areas and boundaries, to provide hazard protection, restrict access and for security purposes. The location, style and height of security and barrier fences should be designed to achieve their purpose but be generally transparent and unobtrusive to ensure that these structures do not dominate the open space and are generally concealed within the landscape.

Security Fencing

As a *minimum* standard, security fencing (refer to drawing **SDL.3.14**) shall:

- Have a minimum height of 2.35 metres above ground level and be black in colour. Due to the height of this fence, this structure is subject to a building permit.
- Comprise 50mm galvanised chain wire mesh 1800mm in height. The mesh shall be specified as 3.15mm heavy galvanised wire with black pvc coating. The mesh shall be installed 50mm above the existing ground level and the top and bottom shall be barbed selvedge.
- Comprise three (3) double strand (4mm galvanise wire) cables to support the chain wire mesh. A cable shall run along the top, bottom and middle of the mesh component (ie 900mm spacing between cables). The chain mesh shall be tied to the wire cables at 400mm spacings via 2mm soft galvanised fencing wire.
- Comprise three (3) rows of high tensile 2.5mm galvanised barbed wire at the top of the fence.
- Comprise double strand (4mm galvanise wire) cabled braces attached to turnbuckle at corners, gates, strainer posts and end posts. Bracing cables shall be installed diagonally.
- Comprise 50mm diameter galvanised tube uprights spaced at 4.0 metre centres (maximum). Uprights to include an angled splayed top (500mm in height) to house the barbed wire. All uprights shall include galvanised end caps.
- Comprise 50mm diameter galvanised strainer posts at ends, where the fence changes direction or where there is a significant change in ground level requiring the fence to be raised or lowered.
- Comprise 50mm diameter angled galvanised tube stays 1.3 metres in height and horizontal strut bars 4.0 metres in length at gates, corners and end posts. Stays and struts shall be securely fixed to the uprights via galvanised split tee couplings.
- Comprise concrete footings nominally 300mm X 300mm in width and 600mm in height installed on a 50mm bed of class 2 (20mm) crushed rock. Concrete shall be 25MPa minimum. The top of the concrete footing must include a gentle splay (30 degrees minimum) running away from the upright.

Barrier Fencing

As a minimum standard, barrier fencing (refer to **SDL.3.15**) shall:

- Have a nominal height of 1350mm above ground level and be black in colour.
- Comprise 50mm galvanised chain wire mesh 1200mm in height. The mesh shall be specified as 3.15mm heavy galvanised wire with black pvc coating. The mesh shall be installed 100mm above the existing ground level.
- Comprise 50mm diameter galvanised tube uprights spaced at 2.4 metre centres (nominal). All uprights shall include galvanised end caps.
- Comprise 50mm diameter galvanised tube horizontal rails at the top and bottom. The chain mesh shall be tied to the rails via continuous length of 2mm soft galvanised fencing wire.
- Horizontal rails shall be securely fixed to the uprights via galvanised split tee couplings.
- Comprise concrete footings nominally 300mm X 300mm in width and 600mm in height installed on a 50mm bed of class 2 (20mm) crushed rock. Concrete shall be 25MPa minimum. The top of the concrete footing must include a gentle splay (30 degrees minimum) running away from the upright.

All damaged galvanised surfaces to be appropriately treated with a zinc rich cold galvanised paint (Stamit Zam or equal).