

Product outline

The Queensland Department of Education and Training (DET) has developed a school security fencing specification. Bluedog has developed a fence design that complies with this specification.

Key aspects of this specification that make a critical difference to the service life and safe operation of the fence:

- **Heavier gauge pickets and rail** than standard tubular security fencing.
- **Security brackets** as compared to lighter zinc plated shrouds.
- **Anti tamper fasteners** as compared to domestic type teks.
- **Heavy gauge 75x75mm fence posts** as compared to lighter alternatives.



Features of Bluedog’s fence system include:

- **Superior hinge design** using a greasable tapered roller bearing (bottom) and sealed bearing (top) that enables the **gate to swing 180 degrees**.
- **Proprietary range of fence panels brackets** to handle changes in direction and gradient in the fence.
- **In-house manufacture and powder coating**.
- **Accompanying CAD drawings available** showing fence and gate assembly.
- **Substantial warranties** (see below).

Important aspects of school security fencing include:

- **Gate locking** mechanisms.
- **Gate hinges**.
- **Removal of climb points** and **tunnelling points**.

Budget Estimate Rates: Supply and install \$250 per metre (fencing) and \$1,150 per metre (gates), for 2100mm high (rates exclude GST)

Warranties

Fence fabrication: 3 years

Fence installation: 1 year

Powder-coating: 10 year colour fastness (conditions apply)



Material Specification

Panel height	2100 (standard)
Panel configuration	Vertical pickets are inserted through punched rails with each picket welded at the top and bottom, of both the top and bottom rails.
Picket profile	25x25x1.6mm Square Hollow Section (SHS)
Picket spacing	125mm centre-to-centre of each vertical picket
Picket top profile	Crimped (sharp) spear top
Rails	40x40x2mm SHS
Panel brackets	1-piece heavy duty, hot dipped galvanised security bracket (four brackets per panel). Four fixing points to the fence post.

Fasteners	Tamper proof Irius Tek screws.
Intermediate posts	75x75x3mm post SHS (3000mm long)
Gate locking hardware	Heavy duty Ø20mm slide-bolt with Broadhurst Lockbox. The slide-bolt is lockable in both the open and closed positions. Heavy duty Ø16mm drop-bolt (pad lockable). Perforated mesh welded to the outside of the gate preventing the gate hardware being used as climbing points.
Gate hinging	Greasable tapered roller bearing (bottom) and sealed ball bearing hinging (top)
Gate posts	100x100x4mm (3000mm long) for openings up to 3000mm. 150x150x5mm (3000mm long) for openings greater than 3000mm.
Post cap	Steel caps secured with a rivet or tek screw.
Weld type	All welds are Silicon bronze which has superior corrosion resistance to a standard mild steel weld.
Zinc coating	Pre-galvanised precision tube with a zinc coating mass of 275 g/m ² across the internal and external surfaces of the hollow steel tube.
Higher corrosion environments	We would recommend the use of our zinc-rich epoxy primer under the top coat to give much greater corrosion resistance.
Post footing	Fence posts Ø300mm x 900mm deep using 20mpa concrete. Gate posts Ø450mm x 900mm deep using 20mpa concrete.



1 piece heavy duty security bracket and Tamper proof Irius Tek screw



Security bracket (external)



Broadhurst lockbox and Ø20mm slide bolt



Ø16mm x 900mm drop bolts



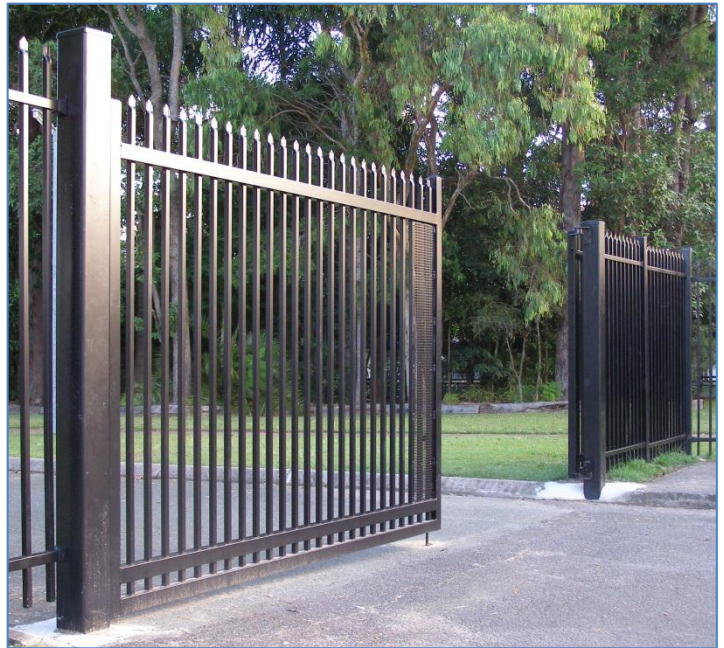
Greasable tapered roller bearing bottom hinge
(allows 180 degree swing)



Greasable deep groove roller bearing top hinge
(adjustable)



Single gate: Broadhurst lockbox, perforated
mesh and heavy duty hinges
(180 degree swing)



Double gate: Broadhurst lockbox, drop bolts on each leaf,
perforated mesh and heavy duty hinges
(180 degree swing)