0242P BLUEDOG FENCES LANDSCAPE - FENCES AND BARRIERS

Branded worksection

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Worksection abstract

This branded worksection *Template* is applicable to steel fencing products and anti-climb barriers supplied by Bluedog Fences.

How to use this worksection

Customise this worksection *Template* for each project. See A guide to NATSPEC worksections (www.natspec.com.au) for information on *Template* structure, word styles and completing a worksection.

Related material located elsewhere in NATSPEC

If a listed worksection is not part of your subscription package and you wish to purchase it, contact NATSPEC.

Related material may be found in other worksections, including:

- *0172 Environmental management* for silt fence.
- *0221 Site preparation* for temporary fencing.
- *0222 Earthwork* for excavation and filling.
- *0241 Landscape - walling and edging* for retaining and freestanding walls.
- *0277 Pavement ancillaries* for vehicle barriers including wheel stops and bollards.
- *0311 Concrete formwork*, *0312 Concrete reinforcement* and *0314 Concrete in situ* for footings and other concrete structures.
- *0331 Brick and block construction* for masonry walls.
- *0467 Glass components* for glass barriers.
- *0673 Powder coatings* for pre-finished metalwork elements.

Material not provided by Bluedog Fences

This branded worksection *Template* includes generic material which may not be provided by the Product Partner including:

- Concrete for footings.

Documenting this and related work

You may document this and related work as follows:

- Show on the drawings the location of the fence(s) and the size and position of any gates. Also show or specify the height of the fence and its relationship to finished ground and any special footing requirements.

The *Normal* style text of this worksection may refer to items as being documented elsewhere in the contract documentation. Make sure they are documented.

Search acumen.architecture.com.au, the Australian Institute of Architects' practice advisory subscription service, for notes on the following:

- Site planning and design for bushfire.
- Guarantees and warranties.

Specifying ESD

Refer to NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

Bluedog Fences Australia is an industry leading manufacturer of Australian tubular steel fencing systems; they are 100% Australian owned & operated and distribute products nationally to local and state government agencies, commercial and private organisations. They provide a large range of commercial and security fencing systems manufactured in regional Australia compliant with relevant Australian Standards. They fabricate, chemically clean and powder coat wholly in-house at their state-of-the-art, Lean manufacturing facility in Tamworth NSW.

1.1 RESPONSIBILITIES

General

Requirement: Provide Bluedog fences and barrier systems, as documented.

Documented is defined in *0171 General requirements* as meaning contained in the contract documents.

Performance

Requirements:

- Complete for their function.
- Conforming to the detail and location drawings.
- Firmly fixed in position.

DESIGN

Barriers for swimming pools

Design, construction and performance: To the NCC cited AS 1926.1 (2012).

The NCC cites AS 1926.1 (2012). The current edition is AS 1926.1 (2024).

Location of barriers for private swimming pools: To AS 1926.2 (2007).

If any fences are being used as barriers to swimming pools include this *Optional* style text by changing to *Normal* style text. Check the local council for additional requirements. AS 1926.1 (2012) and AS 1926.2 (2007) are referenced in the NCC for safety barriers to swimming pools.

1.2 COMPANY CONTACTS

BLUEDOG FENCES technical contacts

Website: www.bluedogfences.com.au/contact-us

1.3 CROSS REFERENCES

General

Requirement: Conform to the following:

- *0171 General requirements*.

0171 General requirements contains umbrella requirements for all building and services worksections.

List the worksections cross referenced by this worksection. *0171 General requirements* references the *018 Common requirements* subgroup of worksections. It is not necessary to repeat them here. However, you may also wish to direct the contractor to other worksections where there may be work that is closely associated with this work.

NATSPEC uses generic worksection titles, whether or not there are branded equivalents. If you use a branded worksection, change the cross reference here.

1.4 MANUFACTURER'S DOCUMENTS

Technical manuals

Website: www.bluedogfences.com.au/fences

1.5 SUBMISSIONS

Certification

Barrier design: Submit a professional engineer's certificate confirming conformance with AS/NZS 1170.1 (2002) clause 3.6.

AS/NZS 1170.1 (2002) clause 3.6 deals with imposed loads on barriers, including parapets, balustrades and railings.

Products and materials

Requirement: Submit the manufacturer's standard drawings and details showing methods of construction, assembly and installation, with dimensions and tolerances.

Evidence of delivery: Submit delivery docket as evidence of delivery of [complete/delete]

If evidence of delivery to site is required for particular products, consider including this *Optional* style text by changing to *Normal* style.

Environmental Product Declaration (EPD): Submit an EPD to ISO 14025 (2006) with a Product Category Rule (PCR), used to calculate environmental impact indicators, to EN 15804 (2012) or ISO 21930 (2017).

Nominate which products are required to have an EPD either here or in PRODUCTS.

An EPD is an independently verified and registered document that quantifies environmental information on the life cycle of a product to enable comparisons between products fulfilling the same function. EPDs can support carbon emission reduction by allowing a fair and equitable comparison of the impacts of different materials and products within specific product categories.

Steel fencing materials: Submit the following as relevant to the products selected, available by contacting Bluedog Fences:

- Evidence of conformity to AS 1450 (2007) with a minimum Z275 zinc coating to AS 1397 (2021).
- Evidence of conformity to AS/NZS 1163 (2016) with a minimum ZE50/50 coating to AS 4750 (2003).

Powder coating: Submit evidence of conformity to AS 4506 (2024).

Samples

Requirement: Submit samples to PRODUCTS, **GENERAL**, **Samples**.

Warranties

Requirement: Submit warranties to **COMPLETION**, **Warranties**.

1.6 INSPECTION

Notice

Inspection: Give notice so that inspection may be made of the following:

- Boundary survey location.
- Set-out before construction.
- Foundation conditions after excavation.
- Completion of installation.

Edit to suit the project, adding critical stage inspections required.

Hold points, if required, should be inserted here.

2 PRODUCTS

2.1 GENERAL

Product substitution

Other products: Conform to **SUBSTITUTIONS** in *0171 General requirements*.

SUBSTITUTIONS in *0171 General requirements* sets out the submissions required if the contractor proposes alternative products. Refer also to NATSPEC TECHnote GEN 006 for more information on proprietary specification.

Samples

Requirement: Submit samples as follows: [complete/delete]

Insert samples required.

Storage and handling

General: Deliver, unload and store components and accessories in unbroken manufacturer's packaging. Inspect upon delivery for the required quantity and quality.

Product identification

General: Marked to show the following:

- Manufacturer’s identification.
- Product brand name.
- Product type.
- Quantity.
- Product reference code and batch number.
- Date of manufacture.

Edit the list to suit the project or delete if not required.

2.2 SCHOOL SECURITY FENCING

SecuraTop Standard

Description: Powder coated pre-galvanized tubular steel security fencing system with multiple gate and closure options.

Designed as a cost effective. strong and aesthetically pleasing security solution.

Steel sections: To AS 1450 (2007).

Post size: 65 x 65 x 1.6 mm.

Consider using 65 x 65 x 2.5 mm posts for heavier duty applications.

Minimum length of embedded posts:

- 2400 mm for a 1800 mm panel height.
- 2660 mm for a 2100 mm panel height.

If using heavier duty 65 x 65 x 2.5 mm posts, increase minimum post length value above to 3000 mm for a 2100 mm panel height. Site conditions may require increased length of embedded posts.

Rail size: 40 x 40 x 1.6 mm.

Picket size: 25 x 25 x 1.2 mm.

Gap between pickets: 112 mm.

Panel length: 2400 mm.

Available in panel heights of 1800 mm and 2100 mm.

Picket top profile: Crimped sharp spear.

Finish: Polyester powder coat to AS 4506 (2024).

Weld type: Silicon bronze.

Panel fixing brackets: Bluedog SmartaBracket, one piece heavy duty powder coated pre-galvanized 3 mm mild steel security bracket.

SecuraTop Max

Description: Powder coated pre-galvanized tubular steel high security fencing system.

Designed to secure higher value and more sensitive assets from unauthorised access.

Steel sections: To AS 1450 (2007) and AS/NZS 1163 (2016).

Post size: 75 x 75 x 3.0 mm.

Minimum length of embedded posts: 3000 mm for a 2400 mm panel height.

Site conditions may require increased length of embedded posts.

Rail size: 40 x 40 x 2.0 mm.

Picket size: 25 x 25 x 1.6 mm.

Gap between pickets: 100 mm.

Panel length: 2400 mm.

Panel height: 2400 mm.

Picket top profile: Crimped sharp spear.

Finish: Polyester powder coat to AS 4506 (2024).

Weld type: Silicon bronze.

Panel fixing brackets: Bluedog SmartaBracket, one piece heavy duty powder coated pre-galvanized 3 mm mild steel security bracket.

SecuraTop ACT ED

Description: Powder coated pre-galvanized tubular steel security fencing system complying with Australian Capital Territory Education Directorate (ED) requirements.

Steel sections: To AS 1450 (2007).

Post size: 65 x 65 x 2.5 mm.

Minimum length of embedded posts: 3000 mm for a 2100 mm panel height.

Site conditions may require increased length of embedded posts.

Rail size: 40 x 40 x 1.6 mm.

Picket size: 25 x 25 x 1.2 mm.

Gap between pickets: 112 mm.

Panel length: 2400 mm.

Available in panel heights of 1800 mm and 2100 mm.

Picket top profile: Crimped round spear.

Finish: Polyester powder coat to AS 4506 (2024).

Weld type: Silicon bronze.

Panel fixing brackets: Bluedog SmartaBracket, one piece heavy duty powder coated pre-galvanized 3 mm mild steel security bracket.

SecuraTop NSW DoE

Description: Powder coated pre-galvanized tubular steel security fencing system, complying with New South Wales Department of Education (DoE) requirements.

Steel sections: To AS 1450 (2007).

Post size: 65 x 65 x 2.5 mm.

Minimum length of embedded posts: 3000 mm for a 2100 mm panel height.

Site conditions may require increased length of embedded posts.

Rail size: 40 x 40 x 1.6 mm.

Picket size: 25 x 25 x 1.2 mm.

Panel length: 2400 mm.

Panel height: 2100 mm.

Picket top profile: Crimped sharp spear.

Finish: Polyester powder coat to AS 4506 (2024).

Weld type: Silicon bronze.

Panel fixing brackets: Bluedog SmartaBracket, one piece heavy duty powder coated pre-galvanized 3 mm mild steel security bracket.

SecuraTop QLD DoE

Description: Powder coated pre-galvanized tubular steel security fencing system, complying with Queensland Department of Education (DoE) requirements.

Steel sections: To AS 1450 (2007) and AS/NZS 1163 (2016).

Post size: 75 x 75 x 3.0 mm.

Minimum length of embedded posts: 3000 mm for a 2100 mm panel height.

Site conditions may require increased length of embedded posts.

Rail size: 40 x 40 x 2.0 mm.

Picket size: 25 x 25 x 1.6 mm.

Gap between pickets: 98 mm.

Panel length: 2400 mm.

Panel height: 2100 mm.

Picket top profile: Crimped sharp spear.

Finish: Polyester powder coat to AS 4506 (2024).

Colour: Night Sky – Black.

Weld type: Silicon bronze.

Panel fixing brackets: Bluedog SmartaBracket, one piece heavy duty powder coated pre-galvanized 3 mm mild steel security bracket.

SecuraTop SA DoE

Description: Powder coated pre-galvanized tubular steel security fencing system, complying with South Australia Department of Education (DoE) requirements.

Steel sections: To AS 1450 (2007).

Post size: 65 x 65 x 2.5 mm.

Minimum length of embedded posts: 3000 mm for a 2100 mm panel height.

Site conditions may require increased length of embedded posts.

Rail size: 40 x 40 x 1.6 mm.

Picket size: 25 x 25 x 1.2 mm.

Panel length: 2400 mm.

Panel height: 2100 mm.

Picket top profile: Crimped round spear.

Finish: Polyester powder coat to AS 4506 (2024).

Weld type: Silicon bronze.

Panel fixing brackets: Bluedog SmartaBracket, one piece heavy duty powder coated pre-galvanized 3 mm mild steel security bracket.

2.3 PEDESTRIAN BARRIER FENCING

CrowdTuff

Description: Powder coated pre-galvanized tubular steel fencing system for urban and open spaces to protect pedestrians and manage pedestrian movement.

CrowdTuff can also be provided with just a galvanized coating.

Swimming pool barrier: To the NCC cited AS 1926.1 (2012).

The NCC cites AS 1926.1 (2012). The current edition is AS 1926.1 (2024).

Steel sections: To AS 1450 (2007).

Post size: 65 x 65 x 1.6 mm.

Minimum length of embedded posts: 1800 mm for a 1200 mm panel height.

Site conditions may require increased length of embedded posts.

Rail size: 40 x 40 x 1.6 mm.

Picket sizes:

- Round: 19 x 1.2 mm.
- Square: 25 x 25 x 1.2 mm.

Gap between pickets:

- Round: 87 mm.
- Square: 112 mm.

Panel length: 2400 mm.

Panel height: 1200 mm.

Finish: Polyester powder coat to AS 4506 (2024).

Weld type: Silicon bronze.

Panel fixing brackets: Bluedog SmartaBracket, one piece heavy duty powder coated pre-galvanized 3 mm mild steel security bracket.

2.4 STEEL PICKET FENCING

Headingly

Description: Powder coated pre-galvanized tubular steel picket fence to enclose sporting venues.

Steel sections: To AS 1450 (2007).

Post size: 65 x 65 x 1.6 mm.

Minimum length of embedded posts: 1500 mm for a 900 mm panel height.

Site conditions may require increased length of embedded posts.

Rail size: 40 x 40 x 1.6 mm.

Picket size: 75 x 16 x 1.0 mm oval.

Gap between pickets: 63 mm.

Panel length: 2400 mm.

Panel height: 900 mm.

Finish: Polyester powder coat to AS 4506 (2024).

Weld type: Silicon bronze.

Panel fixing brackets: Bluedog SmartaBracket, one piece heavy duty powder coated pre-galvanized 3 mm mild steel security bracket.

2.5 POST AND RAIL FENCING

TopRail

Description: Powder coated steel post and rail fencing system allowing for a 1 to 4 rail arrangement, to provide a similar aesthetic to a traditional timber post and rail fence.

Steel sections: To AS 1450 (2007) and AS/NZS 1163 (2016).

Post size: 75 x 75 x 3.0 mm.

Minimum length of embedded posts: 2000 mm for a 1200 mm top of top rail height.

Site conditions may require increased length of embedded posts.

Rail size: 115 x 42 x 2.0 mm oval.

Rail length: 3040 mm.

Top of top rail height: 1200 mm.

Finish: Polyester powder coat to AS 4506 (2024).

Rail fixing brackets: Bluedog SmartaBracket, heavy duty powder coated pre-galvanized 3 mm mild steel.

Oval bracket can accommodate a change in gradient between posts of up to 10 degrees.

2.6 REMOVABLE FENCING

EventaFence

Description: Powder coated pre-galvanized tubular steel temporary fencing system with proprietary post sleeve system, designed to be readily removed and reinstalled for events.

Steel sections: To AS 1450 (2007) and AS/NZS 1163 (2016).

Post size: 65 x 65 x 1.6 mm with 130 x 130 x 5 mm collar.

Consider using 65 x 65 x 2.5 mm posts for heavier duty applications.

Minimum length of posts:

- 1800 mm for a 1200 mm panel height.
- 2200 mm for a 1800 mm panel height.
- 2660 mm for a 2100 mm panel height.

Ground inserts: 75 x 75 x 3.0 mm with 130 x 130 x 5 mm collar.

Rail size: 40 x 40 x 1.6 mm.

Picket sizes:

- Round: 19 x 1.2 mm.
- Square: 25 x 25 x 1.2 mm.

Gap between pickets:

- Round: 87 mm.
- Square: 112 mm.

Panel length: 2400 mm.

Available in panel heights of 1200 mm, 1800 mm and 2100 mm.

Finish: Polyester powder coat to AS 4506 (2024).

Weld type: Silicon bronze.

Panel fixing brackets: Bluedog SmartaBracket, one piece heavy duty powder coated pre-galvanized 3 mm mild steel security bracket.

2.7 CYCLEWAY BARRIER FENCING

CycSafe

Description: Powder coated pre-galvanized tubular steel fencing system with round safety ‘bump’ rail set out 150 mm from fence toward riding surface to provide safety for cyclists.

Steel sections: To AS 1450 (2007).

Post size: 65 x 65 x 1.6 mm.

Consider using 65 x 65 x 2.5 mm posts for heavier duty applications.

Minimum length of embedded posts: 1800 mm for a 1200 mm panel height.

Site conditions may require increased length of embedded posts.

Rail size: 40 x 40 x 1.6 mm.

Partial barrier system: One rail located at a nominal height of 500 mm and bump rail at top.

Full barrier panel system picket sizes: 25 x 25 x 1.2 mm.

Full barrier panel system gap between pickets: 112 mm.

Full barrier panel length: 2400 mm.

Full barrier panel height: 1200 mm.

Full barrier panel system picket top profile: Flat.

Bump rail size: 48.3 x 1.6 mm.

Bump rail length: 2540 mm, with swaged end for insertion into adjacent bump rail, providing a continuous unbroken bump rail.

Bump rail height: 1350 mm.

With a minimum of 1200 mm and a maximum of 1400 mm.

Finish: Polyester powder coat to AS 4506 (2024).

Weld type: Silicon bronze.

Panel and mid-rail fixing brackets: Bluedog SmartaBracket, one piece heavy duty powder coated pre-galvanized 3 mm mild steel security bracket.

Standard bump rail bracket, U-clip and Ball bump rail bracket: Powder coated pre-galvanized 5 mm mild steel.

Dome base: Powder coated pre-galvanized 3 mm mild steel.

2.8 GATES

General

Hardware: Provide the following:

- Drop bolt and ferrule to each leaf of double gates.
- Latch to one leaf of double gates.
- Provision for locking.
- Hinges with smooth operation and adjustment for future sagging.

Gate hinging:

- Self-closing – general: Heavy duty plastic self-closing hinge with gate stop fitted to the latch stile or gate post.

The gate stop will prevent the hinges from being damaged due to over-swing.

- Self-closing – heavy duty: SureClose ReadyFit hydraulic self-closing hinge with gate stop fitted to the latch stile or gate post.

The gate stop will prevent the hinges from being damaged due to over-swing.

- Manual operation – general: Goliath (single) ball bearing hinge top and bottom.
- Manual operation – heavy duty: Bluedog Eternity greasable tapered roller bearing (bottom) and sealed deep groove ball bearing hinge (top).

Available hinging options for each gate are detailed in the guidance text to each schedule in SELECTIONS, **GATES**. Nominate the hinging required in each schedule.

SecuraTop Standard gate

Gate posts to AS/NZS 1163 (2016):

- Gate leaf width up to 1400 mm: 75 x 75 x 3.0 mm.
- Gate leaf width 1401 to 2400 mm: 100 x 100 x 4.0 mm.
- Gate leaf width 2401 to 3000 mm: 100 x 100 x 4.0 mm.
- Gate leaf width over 3000 mm: 150 x 150 x 5.0 mm.

Gate posts sizes above are for gates with the 40 x 40 mm stiles, documented below. If increasing to heavy duty 65 x 65 mm stiles, consult Bluedog Fences for increased gate post requirements. Site conditions may require increased length of embedded posts.

Gate frame to AS 1450 (2007):

- Stiles: 40 x 40 x 2.0 mm.
- Rails: 40 x 40 x 1.6 mm.

For heavier duty applications increase value above for stiles to 65 x 65 x 2.5 mm and increase value above for rails to 65 x 65 x 1.6 mm.

Locking hardware: Bluedog Boltn'Lock heavy duty 20 mm diameter slide-bolt unit.

The slide-bolt is lockable with a standard padlock in both the open and closed positions.

Drop-bolt hardware:

- Site fixed: Zinc plated and powder coated 16 mm diameter x 550 mm long drop-bolt.
- Shop welded: Zinc plated and powder coated 16 mm diameter x 700 mm long drop-bolt.

SecuraTop Max gate

Gate posts to AS/NZS 1163 (2016):

- Gate leaf width up to 1400 mm: 75 x 75 x 3.0 mm.
- Gate leaf width 1401 to 2400 mm: 100 x 100 x 4.0 mm.
- Gate leaf width 2401 to 3000 mm: 100 x 100 x 5.0 mm.
- Gate leaf width over 3000 mm: 150 x 150 x 5.0 mm.

Site conditions may require increased length of embedded posts.

Gate frame to AS 1450 (2007):

- Stiles: 40 x 40 x 2.0 mm.
- Rails: 40 x 40 x 1.6 mm.

For heavier duty applications increase value above for stiles to 65 x 65 x 2.5 mm and increase value above for rails to 65 x 65 x 1.6 mm.

Gate hinging: Manual – heavy duty.

Locking hardware: Bluedog Boltn'Lock heavy duty 20 mm diameter slide-bolt unit.

The slide-bolt is lockable with a standard padlock in both the open and closed positions.

Drop-bolt hardware:

- Site fixed: Zinc plated and powder coated 16 mm diameter x 550 mm long drop-bolt.
- Shop welded: Zinc plated and powder coated 16 mm diameter x 700 mm long drop-bolt.

SecuraTop ACT ED gate

Gate posts to AS/NZS 1163 (2016):

- Gate leaf width up to 2400 mm: 100 x 100 x 5.0 mm.
- Gate leaf width 2401 to 3000 mm: 150 x 150 x 5.0 mm.
- Gate leaf width over 3000 mm: 150 x 150 x 5.0 mm.

Site conditions may require increased length of embedded posts.

Gate frame to AS 1450 (2007):

- Stiles: 65 x 65 x 2.5 mm.
- Rails: 65 x 65 x 1.6 mm.

Gate hinging: Manual – heavy duty.

Locking hardware: Bluedog Boltn'Lock heavy duty 20 mm diameter slide-bolt unit with twin Broadhurst lockboxes.

The cast lock boxes protect the shackle lock that inserts into the lockbox. The slide-bolt is lockable with a shackles lock in both the open and closed positions.

Drop-bolt hardware: Shop welded, zinc plated and powder coated 16 mm diameter x 700 mm long drop-bolt.

SecuraTop NSW DoE gate

Gate posts to AS/NZS 1163 (2016):

- Gate leaf width up to 2400 mm: 100 x 100 x 5.0 mm.
- Gate leaf width 2401 to 3000 mm: 150 x 150 x 5.0 mm.
- Gate leaf width over 3000 mm: 150 x 150 x 5.0 mm.

Site conditions may require increased length of embedded posts.

Gate frame to AS 1450 (2007):

- Stiles: 65 x 65 x 2.5 mm.
- Rails: 65 x 65 x 1.6 mm.

Gate hinging: Manual – heavy duty.

Locking hardware: Bluedog Boltn'Lock heavy duty 20 mm diameter slide-bolt unit with twin Broadhurst lockboxes.

The cast lockboxes protect the shackles lock that inserts into the lockbox. The slide-bolt is lockable with a shackles lock in the closed position

Drop-bolt hardware: Bluedog Boltn'Lock heavy duty 20 mm diameter slide-bolt unit with single Broadhurst lockbox.

The cast lockbox protects the shackles lock that inserts into the lockbox. The slide-bolt is lockable with a shackles lock in the closed position.

SecuraTop QLD DoE gate

Gate posts to AS/NZS 1163 (2016):

- Gate leaf width up to 2400 mm: 100 x 100 x 4.0 mm.
- Gate leaf width 2401 to 3000 mm: 150 x 150 x 5.0 mm.

Site conditions may require increased length of embedded posts.

Gate frame to AS 1450 (2007):

- Stiles: 65 x 65 x 2.5 mm.
- Rails: 65 x 65 x 1.6 mm.

Gate hinging: Manual – heavy duty.

Locking hardware: Bluedog Boltn'Lock heavy duty 20 mm diameter slide-bolt unit with twin Broadhurst lockboxes.

The cast lock boxes protect the shackle lock that inserts into the lockbox. The slide-bolt is lockable with a shackles lock in both the open and closed positions.

Drop-bolt hardware: Shop welded, zinc plated and powder coated 16 mm diameter x 700 mm long drop-bolt.

Colour: Night Sky – Black.

SecuraTop SA DoE gate

Gate posts to AS/NZS 1163 (2016):

- Gate leaf width up to 1300 mm: 100 x 100 x 4.0 mm.
- Gate leaf width 1301 to 3000 mm: 100 x 100 x 5.0 mm.

Site conditions may require increased length of embedded posts.

Gate frame to AS 1450 (2007):

- Stiles: 65 x 65 x 2.5 mm.
- Rails: 65 x 65 x 1.6 mm.

Gate hinging: Manual – heavy duty.

Locking hardware: Bluedog Boltn'Lock heavy duty 20 mm diameter slide-bolt unit with twin Broadhurst lockboxes.

The cast lock boxes protect the shackle lock that inserts into the lockbox. The slide-bolt is lockable with a shackles lock in both the open and closed positions.

Drop-bolt hardware: Shop welded, zinc plated and powder coated 16 mm diameter x 700 mm long drop-bolt.

CrowdTuff gate

Gate posts to AS/NZS 1163 (2016):

- Gate leaf width up to 1400 mm: 75 x 75 x 3.0 mm.
- Gate leaf width 1401 to 2400 mm: 100 x 100 x 4.0 mm.

Site conditions may require increased length of embedded posts.

Gate frame to AS 1450 (2007):

- Stiles: 40 x 40 x 1.6 mm.
- Rails: 40 x 40 x 1.6 mm.

Locking hardware: Bluedog Boltn'Lock heavy duty 20 mm diameter slide-bolt unit.

The slide-bolt is lockable with a standard padlock in both the open and closed positions.

Drop-bolt hardware: Site fixed, zinc plated and powder coated 16 mm diameter x 550 mm long drop-bolt.

Headingly gate

Gate posts to AS/NZS 1163 (2016):

- Gate leaf width up to 1400 mm: 75 x 75 x 3.0 mm.
- Gate leaf width 1401 to 2400 mm: 100 x 100 x 4.0 mm.

Site conditions may require increased length of embedded posts.

Gate frame to AS 1450 (2007):

- Stiles: 40 x 40 x 1.6 mm.

Consider using 65 x 65 x 1.6 mm stiles for heavier duty applications.

- Rails: 40 x 40 x 1.6 mm.

Drop-bolt hardware: Site fixed, zinc plated and powder coated 16 mm diameter x 550 mm long drop-bolt.

TopRail gate

Gate posts to AS/NZS 1163 (2016): 75 x 75 x 3.0 mm.

Gate frame to AS 1450 (2007) and AS/NZS 1163 (2016):

- Stiles: 65 x 65 x 1.6 mm.
- Rails: 115 x 42 x 2.0 mm oval.

Mesh panel detail to gate leaf: 25 x 25 x 3.15 mm welded mesh, screw fixed to rails with u-clip.

EventaFence gate

Gate posts to AS/NZS 1163 (2016):

- Gate leaf width up to 1400 mm: 75 x 75 x 3.0 mm.
- Gate leaf width 1401 to 2400 mm: 100 x 100 x 4.0 mm.

Gate frame to AS 1450 (2007):

- Stiles: 40 x 40 x 2.0 mm.
- Rails: 40 x 40 x 1.6 mm.

Consider using 65 x 65 x 2.5 mm stiles and 65 x 65 x 1.6 mm rails for heavier duty applications.

Locking hardware: Bluedog Boltn'Lock heavy duty 20 mm diameter slide-bolt unit.

The slide-bolt is lockable with a standard padlock in both the open and closed positions.

Drop-bolt hardware: Site fixed, zinc plated and powder coated 16 mm diameter x 550 mm long drop-bolt.

2.9 ANTI-CLIMB SYSTEMS

Roller barrier

Description: Non-aggressive anti-climb roller barrier modular system designed to protect against climbers without causing them injury or impalement. The system is formed on site by threading individual roller cups on to a central shaft which is fixed at regular intervals to the item being protected.

Components:

- Roller cups: 112 mm diameter x 100 mm UV resistant recycled polycarbonate roller cups. Cups roll around central aluminium shaft.
- Cups are sized to be too large to allow hand grip.
- Central shaft: 2000 mm length x 25.4 mm diameter x 2.0 mm thick aluminium extrusion, cut to length or joined together with joining spigot.
- Mounting brackets: Range of galvanized steel brackets to suit either top fix or face fix situations.

- Joining spigot: Aluminium ‘c’ shaped extrusion to fit within the end of the central shaft to join it to the adjacent central shaft.
- End terminations: Aluminium fixing to hold the end of a run of roller cups in place.

2.10 CONCRETE

General

Standard: To AS 1379 (2007).

Exposure classification: To AS 3600 (2018) Table 4.3.

3 EXECUTION

3.1 GENERAL

Set-out

General: Set out the fence line and mark the positions of posts, gates and bracing panels.

Property boundaries: Confirm by survey.

Document procedure for liaison with adjoining property owners and relevant authorities to obtain written approval for access and clearing, and construction of fencing.

Clearing

Fence line: Except for trees or shrubs to be retained, clear vegetation within 1 m of the fence alignment. Minimise damage to trees, shrubs and surrounding areas. Grub out the stumps and roots of removed trees and shrubs, and trim the grass to ground level. Do not remove the topsoil.

Excavation

Posts: Excavate post holes so that they have vertical sides and a firm base. Spread surplus material on the principal’s side of the fence.

Concrete footings

In ground: Place mass concrete around posts to protect posts from waterlogged conditions and finish the top with a 25 mm fall from the post to the footing edge.

Fixing to existing concrete: Provide base flanges welded to each post, drilled with 4 x 13 mm diameter corner holes for fixing with masonry anchors to the concrete. Base flange dimensions as follows:

- 130 x 130 x 5 mm to suit 65 x 65 mm post.
- 150 x 150 x 8 mm to suit 75 x 75 mm post.
- 200 x 200 x 10 mm to suit 100 x 100 mm post.

Erection

Line and level: Erect posts vertically. Set heights to follow the contours of natural ground.

Edit text on heights to suit project requirements or delete if height requirements are documented on drawings.

Swimming pool barriers

Construction and performance: To the NCC cited AS 1926.1 (2012) and AS 1926.2 (2007).

The NCC cites AS 1926.1 (2012). The current edition is AS 1926.1 (2024).

Confirm conformance to NCC provisions covered in BCA (2022) D4D11, BCA (2022) Spec 16 and BCA (2022) G1D2.

3.2 FENCING

SecuraTop installation

Requirement: Install SecuraTop fencing to the relevant *Bluedog SecuraTop fencing install guide (2016)* and *Bluedog SecuraTop typical assembly* drawings.

Gap between posts: 2415 mm.

Post to footing fixing dimensions match for either case:

The following suggested footing and bolt sizes may need to be adjusted to suit site and use conditions.

- Cast in fence post: Provide a 20 MPa concrete footing as follows:
  - 225 mm diameter x 600 mm depth for 1800 mm high fence. Cast post a minimum of 550 mm into the centre of the footing.
  - 225 mm diameter x 900 mm depth for 2100 mm high fence. Cast post a minimum of 850 mm into the centre of the footing.

. 250 mm diameter x 900 mm depth for 2400 mm high fence. Cast post a minimum of 850 mm into the centre of the footing.

- Cast in gate post: Provide a 20 MPa concrete footing 300 mm diameter x 900 mm depth. Cast post a minimum of 850 mm into the centre of the footing.
- Fence post fixing to existing concrete: Fix with 4 x M10 or M12 anchors, installed to the anchor manufacturer's recommendations.

It is not recommended to fix gate posts to existing concrete surfaces. Core-drilling to provide for a cast in gate post is recommended.

Post caps: Provide Bluedog pre-galvanized powder coated steel square caps and install with a rubber mallet to fit tightly over the top of each post.

Gap under fence: Install panels to provide a 50 to 100 mm gap under the fence panel when installing on level ground. Provide a maximum 150 mm gap under panels on sloped ground.

Panel to post fixing: Fit Bluedog SmartaBracket over end of rail. Fix bracket to post through the two fixing points provided using 2 x 12 gauge x 25 mm long tamper-proof self-drilling screws, with a minimum Class 3 corrosion finish. Use another 12 gauge x 25 mm long tamper-proof self-drilling screw to fix the rail to the bracket through the fixing point provided.

A special setting tool is required to install and remove the screw.

QLD DoE panel to post fixing: Fit Bluedog SmartaBracket over end of rail. Fix bracket to post through the four fixing points provided using 4 x 12 gauge x 25 mm long tamper-proof self-drilling screws, with a minimum Class 3 corrosion finish. Use another 12 gauge x 25 mm long tamper-proof self-drilling screw to fix the rail to the bracket through the fixing point provided.

CrowdTuff installation

Requirement: Install CrowdTuff fencing to the relevant *Bluedog CrowdTuff typical assembly* drawings.

Gap between posts: 2415 mm.

Post to footing fixing:

The following suggested footing and bolt sizes may need to be adjusted to suit site and use conditions.

- Cast in fence post: Provide a 20 MPa concrete footing 200 mm diameter x 550 mm depth. Cast post a minimum of 400 mm into the centre of the footing.
- Cast in gate post: Provide a 20 MPa concrete footing 450 mm diameter x 650 mm depth. Cast post a minimum of 600 mm into the centre of the footing.
- Fence post fixing to existing concrete: Fix with 4 x M10 or M12 anchors, installed to the anchor manufacturer's recommendations.

It is not recommended to fix gate posts to existing concrete surfaces. Core-drilling to provide for a cast in gate post is recommended.

Post caps: Provide Bluedog pre-galvanized powder coated steel square caps and install with a rubber mallet to fit tightly over the top of each post.

Gap under fence: Install panels to provide a 50 to 100 mm gap under the fence panel when installing on level ground. Provide a maximum 150 mm gap under panels on sloped ground.

Panel to post fixing: Fit Bluedog SmartaBracket over end of rail. Fix bracket to post through the two fixing points provided using 2 x 12 gauge x 25 mm long tamper-proof self-drilling screws, with a minimum Class 3 corrosion finish. Use another 12 gauge x 25 mm long tamper-proof self-drilling screw to fix the rail to the bracket through the fixing point provided.

A special setting tool is required to install and remove the screw.

Headingly installation

Requirement: Install Headingly fencing to the *Bluedog Headingly fencing guide (2017)* and *Bluedog Headingly typical assembly* drawing.

Gap between posts: 2415 mm.

Post to footing fixing:

The following suggested footing and bolt sizes may need to be adjusted to suit site and use conditions.

- Cast in fence post: Provide a 20 MPa concrete footing 225 mm diameter x 650 mm depth. Cast post a minimum of 550 mm into the centre of the footing for 900 mm high fencing.

- Cast in gate post: Provide a 20 MPa concrete footing 300 mm diameter x 600 mm depth. Cast post a minimum of 550 mm into the centre of the footing.
- Fence post fixing to existing concrete: Fix with 4 x M10 or M12 anchors, installed to the anchor manufacturer's recommendations.

It is not recommended to fix gate posts to existing concrete surfaces. Core-drilling to provide for a cast in gate post is recommended.

Post caps: Provide Bluedog pre-galvanized powder coated steel square caps and install with a rubber mallet to fit tightly over the top of each post.

Gap under fence: Install panels to provide a 50 to 100 mm gap under the fence panel when installing on level ground. Provide a maximum 150 mm gap under panels on sloped ground.

Panel to post fixing: Fit Bluedog SmartaBracket over end of rail. Fix bracket to post through the two fixing points provided using 2 x 12 gauge x 25 mm long tamper-proof self-drilling screws, with a minimum Class 3 corrosion finish. Use another 12 gauge x 25 mm long tamper-proof self-drilling screw to fix the rail to the bracket through the fixing point provided.

A special setting tool is required to install and remove the screw.

TopRail installation

Requirement: Install TopRail fencing to the *Bluedog TopRail fencing install guide (2015)* and *Bluedog TopRail typical assembly* drawing.

Gap between posts: 3060 mm.

Post to footing fixing:

The following suggested footing and bolt sizes may need to be adjusted to suit site and use conditions.

- Cast in fence post: Provide a 20 MPa concrete footing 300 mm diameter x 750 mm depth. Cast post a minimum of 800 mm into the centre of the footing.
- Cast in gate post: Provide a 20 MPa concrete footing 300 mm diameter x 750 mm depth. Cast post a minimum of 800 mm into the centre of the footing.
- Fence post fixing to existing concrete: Fix with 4 x M10 or M12 anchors, installed to the anchor manufacturer's recommendations.

It is not recommended to fix gate posts to existing concrete surfaces. Core-drilling to provide for a cast in gate post is recommended.

Post caps: Provide Bluedog pre-galvanized powder coated steel square caps and install with a rubber mallet to fit tightly over the top of each post.

Panel to post fixing: Fit Bluedog Oval SmartaBracket over end of rail. Angle rail to desired gradient. Fix bracket to post using 3 x 12 gauge x 25 mm long self-drilling screws, with a minimum Class 3 corrosion finish. Use another 2 x 12 gauge x 25 mm long self-drilling screws to fix the rail to the bracket.

EventaFence installation

Gap between posts: 2415 mm standard.

Footings for ground inserts for posts:

The following suggested footing sizes may need to be adjusted to suit site and use conditions.

- Fence post insert: Provide a 20 MPa concrete footing 300 mm diameter x 550 mm depth. Cast insert a minimum of 300 mm into the centre of the footing.
- Gate post insert: Provide a 20 MPa concrete footing 450 mm diameter x 650 mm depth. Cast post a minimum of 550 mm into the centre of the footing.

Post installation: Slide each post into the installed ground insert and fix collar of post to collar of ground insert with 4 x M10 x 30 mm fasteners.

Post caps: Provide Bluedog pre-galvanized powder coated steel square caps and install with a rubber mallet to fit tightly over the top of each post.

Gap under fence: Install panels to provide a 50 to 100 mm gap under the fence panel when installing on level ground. Provide a maximum 150 mm gap under panels on sloped ground.

Panel to post fixing: Fit Bluedog SmartaBracket over end of rail. Fix bracket to post through the two fixing points provided using 2 x 12 gauge x 25 mm long tamper-proof self-drilling screws, with a minimum Class 3 corrosion finish. Use another 12 gauge x 25 mm long tamper-proof self-drilling screw to fix the rail to the bracket through the fixing point provided.

A special setting tool is required to install and remove the screw.

If using the pressed shroud bracket instead of the SmartaBracket, edit text above accordingly.

CycSafe installation

Requirement: Install CycSafe fencing to the *Bluedog CycSafe cycleway fencing install guide (2014)* and *Bluedog CycSafe standard assembly* drawings.

Gap between posts: 2415 mm.

Post to footing fixing:

The following suggested footing and bolt sizes may need to be adjusted to suit site and use conditions.

- Cast in fence post: Provide a 20 MPa concrete footing 300 mm diameter x 600 mm depth. Cast post a minimum of 550 mm into the centre of the footing.
- Fence post fixing to existing concrete: Fix with 4 x M10 or M12 anchors, installed to the anchor manufacturer's recommendations.

It is not recommended to fix gate posts to existing concrete surfaces. Core-drilling to provide for a cast in gate post is recommended.

Post caps: Provide Bluedog pre-galvanized powder coated steel square caps and install with a rubber mallet to fit tightly over the top of each post.

Gap under fence for full barrier panel system: Install panels to provide a 50 to 100 mm gap under the fence panel when installing on level ground. Provide a maximum 150 mm gap under panels on sloped ground.

Panel to post fixing: Fit Bluedog SmartaBracket over end of rail. Fix bracket to post through the two fixing points provided using 2 x 12 gauge x 25 mm long tamper-proof self-drilling screws, with a minimum Class 3 corrosion finish. Use another 12 gauge x 25 mm long tamper-proof self-drilling screw to fix the rail to the bracket through the fixing point provided.

A special setting tool is required to install and remove the screw.

Standard bump rail bracket: Fix bracket to post through the four fixing points provided using 4 x 12 gauge x 25 mm long tamper-proof self-drilling screws, with a minimum Class 3 corrosion finish. Pass the U-clip through the penetration in the bracket and use 2 x 4.8 mm diameter stainless steel rivets to fix the rail to the bracket using the U-clip.

Ball bump rail bracket: Where a change of direction or gradient at posts occurs, use the ball bump rail bracket instead of the standard bump rail bracket. Fix bracket to post through the four fixing points provided using 4 x 12 gauge x 25 mm long tamper-proof self-drilling screws, with a minimum Class 3 corrosion finish. Fix dome base to ball bracket, at required orientation to suit bump rail, using 2 x 4.8 mm diameter stainless steel rivets. Slide bump rail over dome base and fix rail to dome bracket using another 2 x 4.8 mm diameter stainless steel rivets.

End loop: At the each end of the bump rail provide an end loop of rail inserted onto the swaged end of bump rail and fixed to the standard bump rail bracket using the U-clip, as above. Fix the end of the end loop to the post using a dome base fixed to post with 2 x 4.8 mm diameter stainless steel rivets and fixed to end loop with a further 2 x 4.8 mm diameter stainless steel rivets.

3.3 GATES

Installation

Gate hinge fixings:

- Self-closing – general: Fix hinge to gate stile and gate post using 8 x 14 gauge self-drilling screws.
- Self-closing – heavy duty: Fix hinge to gate stile and gate post using 8 x 14 gauge self-drilling screws.
- Manual operation – general: Fix hinge to gate stile and gate post using 2 x 14 gauge self-drilling screws and 1 x M8 bolt.
- Manual operation – heavy duty: Drill and tap the gate post to suit 4 x M10 x 25 mm long stainless steel anti-tamper screws. Use the 4 screws to fix a 10 mm gate post bracket to the post. Insert the gate stile bracket into the gate stile and fix with a 14 gauge self-drilling screw.

Gate locking hardware fixing: Fix Bluedog Boltn'Lock unit to gate latch stile with 4 x 14 gauge self-drilling screws and/or M8 bolts. Fix slide bolt receiver to gate post or adjacent double gate latch stile, with 3 x 14 gauge self-drilling screws and/or M8 bolts.

Headingly D-latch and strike: Fix latch to gate stile with 2 x 12 gauge self-drilling screws and strike to latch post with 2 x 12 gauge self-drilling screws.

Site fixed drop-bolt: Fix to gate using 3 x 14 gauge self-drilling screws.

Drop bolt receiver: Securely install steel drop-bolt receiver into ground.

3.4 ROLLER BARRIER

Installation

Mounting bracket fixing: Fix mounting brackets with M8 bolts with tamper-proof shear lock nut at a maximum spacing of 2000 mm centre to centre.

Consider editing text above to reduce bracket spacing to 1000 to 1500 mm for high vulnerability or low level (less than 2500 mm height) installations.

Central shaft preparation: Cut the 2000 mm length central shafts to suit required lengths.

Roller cups: Thread the required number of roller cups onto each central shaft element at a rate of 10 roller cups per linear metre. Allow an additional 20 to 30 mm per linear meter length to allow roller cups to rotate independently of each other.

Connection to mounting bracket: Thread the ends of each central shaft through each mounting bracket. Use a joining spigot to join sections of central shaft together.

Terminations: Make sure that the roller cup at each end of a linear run has its solid face oriented outwards towards the end of the run. Install plastic plug into end of central shaft and fix an end termination to the end of each central shaft, leaving as small gap between end termination and final roller cup to allow cup to rotate freely.

3.5 COMPLETION

Cleaning

Requirement: Remove excess debris, metal swarf and unused materials. Clean all visible metal surfaces with soft clean cloth or brush and clean water or approved cleanser, finishing with a clean cloth. Do not use abrasive or alkaline materials.

Powder coated metal: Clean completed assembly to AS 4506 (2024) Appendix E.

Warranties

Requirement: Cover materials and workmanship in the terms of the warranty in the form of interlocking warranties from the Bluedog Fences and the installer.

Form: Against failure of materials and execution under normal environment and use conditions.

Period:

- Materials: 3 years.
- Colourfastness: 10 years.
- Installation: [complete/delete]

Use only if warranties extending beyond the defects liability period are available for the particular system. Insert the required warranty period and terms, which should be negotiated beforehand. If the warranty is in the form of separate material and installation warranties, require the signatures of both manufacturer and installer.

4 SELECTIONS

Schedules are a tool to specify properties required for products or systems. If the principal permits documentation of the product or system by proprietary name, some of the properties may be unnecessary and can be deleted. Document the product or system's location or application here and/or on the drawings with a matching project code. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

4.1 SCHOOL SECURITY FENCING

SecuraTop Standard schedule

	A	B	C
Post length (mm)			
Post base			
Panel height (mm)			
Colour			

	A	B	C
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions.

Post base: Select from:

- Cast in.
- Bolted flange.

Panel height (mm): Select from 1800 or 2100.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

SecuraTop Max schedule

	A	B	C
Post length (mm)			
Post base			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions.

Post base: Select from:

- Cast in.
- Bolted flange.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

SecuraTop ACT ED schedule

	A	B	C
Post length (mm)			
Post base			
Panel height (mm)			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions.

Post base: Select from:

- Cast in.
- Bolted flange.

Panel height (mm): Select from 1800 or 2100.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

SecuraTop NSW DoE schedule

	A	B	C
Post length (mm)			
Post base			
Gap between pickets (mm)			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions.

Post base: Select from:

- Cast in.
- Bolted flange.

Gap between pickets (mm): Select from:

- 87.
- 98.

Colour: Select from the following:

- Heritage Green.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

SecuraTop QLD DoE schedule

	A	B	C
Post length (mm)			
Post base			
Panel height (mm)			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions.

Post base: Select from:

- Cast in.

- Bolted flange.

Panel height (mm): Select from:

- 2100.
- 2350.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

SecuraTop SA DoE schedule

	A	B	C
Post length (mm)			
Post base			
Gap between pickets (mm)			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions.

Post base: Select from:

- Cast in.
- Bolted flange.

Gap between pickets (mm): Select from:

- 87.
- 112.

Colour: Select from the following:

- Gloss Black.
- Night Sky – Black.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

4.2 PEDESTRIAN BARRIER FENCING

CrowdTuff schedule

	A	B	C
Post length (mm)			
Post base			
Picket type			
Picket top profile			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions. Minimum 1800.

Post base: Select from:

- Cast in.
- Bolted flange.

Picket type: Round or Square.

Picket top profile: Select from:

- Flat.

- Loop – round picket only.
- Rod top – square picket only.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Hot dip galvanized. i.e. no powder coating.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- None: Hot dip galvanized.
- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

4.3 STEEL PICKET FENCING

Headingly schedule

	A	B	C
Post length (mm)			
Post base			
Picket top profile			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions. Minimum 1800.

Post base: Select from:

- Cast in.
- Bolted flange.

Picket top profile: Select from:

- Moon (standard).
- Flat.

Colour: Select from the following:

- Night Sky – Black.
- Pearl White Gloss.
- Primrose Gloss – Cream.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

4.4 POST AND RAIL FENCING

TopRail schedule

	A	B	C
Post length (mm)			
Post base			
Number of rails			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions. Minimum 1800.

Post base: Select from:

- Cast in.
- Bolted flange.

Number of rails: Select from 1 to 4.

Colour: Select from the following:

- Heritage Green.
- Hot dip galvanized. i.e. no powder coating.
- Monument – Grey.
- Night Sky – Black.
- Pearl White.

Powder coating system: Select from:

- None: Hot dip galvanized.
- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

4.5 REMOVABLE FENCING

EventaFence schedule

	A	B	C
Post length (mm)			
Panel height (mm)			
Picket type			
Picket top profile			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions.

Panel height (mm): Select from:

- 1200.
- 1800.
- 2100.

Picket type: Round or Square.

Picket top profile: Select from:

- Flat.
- Loop – round picket only.
- Rod top – square picket only.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Hot dip galvanized. i.e. no powder coating.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- None: Hot dip galvanized.
- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

4.6 CYCLEWAY BARRIER FENCING

CycSafe schedule

	A	B	C
Post length (mm)			
Post base			
Bump rail height (mm)			
In-fill			
Picket type for full barrier			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Post length (mm): Nominate post length required, to suit panel height and in situ conditions.

Post base: Select from:

- Cast in.
- Bolted flange.

Bump rail height (mm): Select from 1350 to 1500.

In-fill: Select from:

- Full barrier.
- Partial barrier.

Picket type for full barrier: Round or Square.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Hot dip galvanized. i.e. no powder coating.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- None: Hot dip galvanized.
- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

4.7 GATES

SecuraTop Standard gate schedule

	A	B	C
Gate leaf width (mm)			
Gate hinging			
Colour			
Powder coating system			
Drop bolt			
Optional 1 mm perforated strip			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Gate hinging: Select from:

- Self-closing – general.
- Manual operation – general.
- Manual operation – heavy duty.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

Drop bolt: Site fixed or Shop welded.

Optional 1 mm perforated strip: Select Yes or No. Strip fits to outside of gate preventing slide bolt hardware from being used as a climbing point.

SecuraTop Max gate schedule

	A	B	C
Gate leaf width (mm)			
Colour			
Powder coating system			
Drop bolt			
Optional 1 mm perforated strip			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

Drop bolt: Site fixed or Shop welded.

Optional 1 mm perforated strip: Select Yes or No. Strip fits to outside of gate preventing slide bolt hardware from being used as a climbing point.

SecuraTop ACT ED gate schedule

	A	B	C
Gate leaf width (mm)			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

Note SecuraTop ACT ED gate is fitted with a 1 mm perforated strip to the outside of the gate to prevent slide bolt hardware from being used as a climbing point.

SecuraTop NSW DoE gate schedule

	A	B	C
Gate leaf width (mm)			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Colour: Select from the following:

- Heritage Green.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

Note SecuraTop NSW DoE gate is fitted with a 1 mm perforated strip to the outside of the gate to prevent slide bolt hardware from being used as a climbing point.

SecuraTop QLD DoE gate schedule

	A	B	C
Gate leaf width (mm)			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

Note SecuraTop QLD DoE gate is fitted with a 1 mm perforated strip to the outside of the gate to prevent slide bolt hardware from being used as a climbing point.

SecuraTop SA DoE gate schedule

	A	B	C
Gate leaf width (mm)			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Colour: Select from the following:

- Gloss Black.
- Night Sky – Black.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

Note SecuraTop SA DoE gate is fitted with a 1 mm perforated strip to the outside of the gate to prevent slide bolt hardware from being used as a climbing point.

CrowdTuff gate schedule

	A	B	C
Gate leaf width (mm)			
Gate hinging			
Colour			

	A	B	C
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Gate hinging: Select from:

- Self-closing – general.
- Manual operation – general.
- Manual operation – heavy duty.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Hot dip galvanized. i.e. no powder coating.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- None: Hot dip galvanized.
- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

Headingly gate schedule

	A	B	C
Gate leaf width (mm)			
Gate hinging			
Locking hardware			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Gate hinging: Select from:

- Manual operation – general.
- Manual operation – heavy duty.

Locking hardware: Select from:

- Boltn'Lock - Heavy duty 20 mm diameter slide bolt.
- D-latch.

Colour: Select from the following:

- Night Sky – Black.
- Pearl White Gloss.
- Primrose Gloss – Cream.

Powder coating system: Select from:

- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

TopRail gate schedule

	A	B	C
Gate leaf width (mm)			
Gate hinging			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Gate hinging: Select from:

- Self-closing – heavy duty.
- Manual operation – general.
- Manual operation – heavy duty.

Colour: Select from the following:

- Heritage Green.
- Hot dip galvanized. i.e. no powder coating.
- Monument – Grey.
- Night Sky – Black.
- Pearl White.

Powder coating system: Select from:

- None: Hot dip galvanized.
- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

EventaFence gate schedule

	A	B	C
Gate leaf width (mm)			
Gate hinging			
Colour			
Powder coating system			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Gate hinging: Select from:

- Self-closing – general.
- Self-closing – heavy duty.
- Manual operation – general.
- Manual operation – heavy duty.

Colour: Select from the following:

- Gloss Black.
- Heritage Green.
- Hot dip galvanized. i.e. no powder coating.
- Monument – Grey.
- Night Sky – Black.

Powder coating system: Select from:

- None: Hot dip galvanized.
- Option 1: Standard.
- Option 2: Upgraded corrosion protection - Metal powder coat primer MetaPrep is used for coastal areas.

4.8 ANTI-CLIMB SYSTEMS

Roller Barrier schedule

	A	B	C
Total linear length (m)			
Rows in system			
Colour			
End terminations			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Total Linear length (m): Nominate total linear length of system. Include double or trigard row in calculation. Note that central shaft is provided in lengths of 2000 mm. Note also that Roller cups are 100 mm in length.

Rows in system: Nominate the number of rows in each length of roller barrier being installed. Select from:

- Single.
- Double.
- Trigard (Triple).

Colour: Select from the following:

- Jet black (RAL 9005) – stock.
- Moss green (RAL 6005) – stock.
- Any other standard RAL colour – special order.

Note: RAL is a European colour matching system that defines colours for paints, coatings and plastics.

End terminations: Select from:

- Bolt and shear nut.
- Collar and end cap.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS/NZS 1163	2016	Cold-formed structural steel hollow sections
AS/NZS 1170		Structural design actions
AS/NZS 1170.1	2002	Permanent, imposed and other actions
AS 1379	2007	Specification and supply of concrete
AS 1397	2021	Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium
AS 1450	2007	Steel tubes for mechanical purposes
AS 1926		Swimming pool safety
AS 1926.1	2012	Safety barriers for swimming pools
AS 1926.2	2007	Location of safety barriers for swimming pools
AS 3600	2018	Concrete structures
AS 4506	2024	Metal finishing - Thermoset powder coatings
AS 4750	2003	Electrogalvanized (zinc) coatings on ferrous hollow and open sections
Bluedog CrowdTuff typical assembly		Bluedog CrowdTuff typical assembly
Bluedog CycSafe standard assembly		Bluedog CycSafe standard assembly
Bluedog CycSafe IG-750-003	2014	Bluedog CycSafe cycleway fencing install guide
Bluedog Headingly typical assembly		Bluedog Headingly typical assembly
Bluedog Headingly IG-750-015	2017	Bluedog Headingly steel picket fencing guide
Bluedog SecuraTop typical assembly		Bluedog SecuraTop typical assembly
Bluedog SecuraTop IG-750-008	2016	Bluedog SecuraTop fencing install guide
Bluedog TopRail typical assembly		Bluedog TopRail typical assembly
Bluedog TopRail IG-750-006	2015	Bluedog TopRail fencing install guide
EN 15804	2012	Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
ISO 14025	2006	Environmental labels and declarations - Type III environmental declarations - Principles and procedures
ISO 21930	2017	Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products and services

The following documents are mentioned only in the *Guidance* text:

AS 1926		Swimming pool safety
AS 1926.1	2024	Safety barriers for swimming pools
BCA D4D11	2022	Access and egress - Access for people with a disability - Swimming pools
BCA G1D2	2022	Ancillary provisions - Minor structures and components - Swimming pools
BCA Spec 16	2022	Access and egress - Accessible water entry/exit for swimming pools
NATSPEC GEN 006		Product specifying and substitution
NATSPEC GEN 024		Using NATSPEC selections schedules
NATSPEC TR 01		Specifying ESD