Headingly® Steel Picket Fencing

Product description	The fencing consists of 2435mm long (standard length) panels with uprights welded to horizontal rails and secured to the posts with shrouds or proprietary security bracket and fastenings.
Product application	Sports ovals, open space area, estates, retirement homes, and residential properties.
Panel height	900mm (standard).
Post spacing	2515mm post centres standard (assumes a 65x65mm post). 2450mm gap between posts (standard).
Gap under fence	50-100mm on level ground. Maximum of 150mm on sloped ground.
Panel configuration	The horizontal rails have a hole punched in one or both sides of the tube to suit the profile of the vertical picket. The picket is then inserted through/ into the rail and welded in place in the top and bottom rail.
Picket profile	75x16x1.0mm Oval Hollow Section (SHS) steel.
Picket spacing	140mm centre-to-centre of each vertical picket. 65mm gap between pickets.
Picket top profile	'Moon' picket (standard). Other profiles available on request.
Rails	40x40x1.6mm SHS steel
Panel brackets	1mm gauge pressed zinc plated shrouds (four per panel: one at each corner). The shroud fits over the end of the rail of the panel and mounts on the face of the post in line with the panel. There are two fixing points through the shroud to the post and one through the shroud to the rail of the panel; or *Recommended alternative for heavier duty applications*: Bluedog SmartaBracket®: 3mm gauge mild steel material, 1-piece heavy duty, hot dipped galvanised security bracket (four brackets per panel). The bracket fits over the end of the 40x40mm rail of the panel and mounts on the non-attack side (normally the inside) of a 65x65mm fence post. There are two fixing points to the post and one to the rail of the panel. This bracket centres the panel on the post along the fence alignment.
Change of direction brackets	Bluedog SmartaBracket®: 3mm gauge mild steel material, 1-piece heavy duty, hot dipped galvanised security bracket. The bracket fits over the end of the 40x40mm rail of the panel and mounts on in-line with the panel on the post. There are two fixing points through the bracket to the post and two through the bracket to the rail of the panel.
Fasteners	Colour matched 12 gauge self-drilling tek screw (three screws per shroud); or *Recommended alternative for heavier duty applications*: 12g x 25mm long tamper proof self drilling Tek screw in a Class 3 (minimum) corrosion finish (three screws per bracket). Requires a special setting tool that fits to a drill to install and remove the screw.
Intermediate posts	65x65x1.6mm SHS (1500mm long for 900mm high panel); *Recommended alternative for heavier duty applications*: 65x65x2.5mm post (1500mm long).
Gate frame	Stiles (i.e. vertical sections at each end of the gate leaf) and rails 40x40x1.6mm (three horizontal rails for increased rigidity). *Recommended alternative for heavier duty applications*: Stiles and Rails 65x65x1.6mm SHS (three horizontal rails).
Gate configuration	The vertical pickets are welded to the face of the horizontal rails with each picket

	welded at the top and bottom of the rails.
Gate locking hardware continued	Bluedog Boltn'Lock® heavy duty Ø20mm slide-bolt unit. This unit fixes to the gate latch stile on site with a combination of 14 gauge tek screws and/or M8 bolts. The slide-bolt is lockable with a standard padlock in both the open and closed positions. A 5mm slide bolt receiver fixes to the gate post or adjacent double gate latch stile on site with a combination of 14g tek screws and M8 bolts.
Gate drop-bolt hardware	Ø16mm x 550mm long drop bolt (screw on site with 3 x 14g self-drilling tek screws). The units is pad lockable in the down position only; or Ø16mm x 700mm long drop bolt (drop bolt guides and locking tabs welded to the gate stile during fabrication). The units is pad lockable in the down position only.
Gate hinging	Heavy duty self-closing hinge* that screws to the hinge stile and gate post on site with 8 x 14g tek screws. The hinge does not hold the gate open at 90 degrees. This hinge allows the gate leaf to swing back on itself but not through the opening; or *Recommended alternative for heavier duty applications*: SureClose hydraulic self-closing hinge that screws to the hinge stile and gate post on site with 8 x 14g tek screws. The hinge does not hold the gate open at 90 degrees and has a final 'snap-close' function to ensure a heavier gate closes properly. This hinge allows the gate leaf to swing back on itself but not through the opening.* **A gate stop fitted to the latch stile or gate post is recommended for both hinge types to prevent the hinges being damaged from 'over-swing' through the gate opening.* Goliath (single) ball bearing hinge (top and bottom). Fitted on site to the gate post and gate stile with a combination of 2 x 14g teks and 1 x M8 bolt; or *Recommended alternative for heavier duty applications*: Bluedog Eternity® greasable tapered roller bearing (bottom) and sealed deep groove ball bearing hinging (top) to suit the 65mm gate stile. The top assembly allows the level of the gate leaf to be lifted or lowered. A 10mm gate post bracket is secured to the gate post with 4 x M10x25mm long stainless steel screws (that requires a specialist setting tool to install for tamper resistance). The gate post is drilled and tapped to suit the M10 fasteners. The gate stile bracket inserts into the top and bottom gate stiles and is fixed with a 14g tek.
Gate posts	75x75x3mm (1800mm long to suit 900mm high fence) for small single gates. 100x100x4mm (1800mm long to suit 900mm high fence) for openings up to 4800mm.
Base flanges	130x130x5mm with 4xØ13 holes to suit 65x65 post. 150x150x8mm with 4xØ13 holes to suit 75x75 post. 200x200x10mm with 4xØ13 holes to suit 100x100 post. The post inserts into the centre of the base flange (standard). The base flanges are hot dip galvanised after fabrication.
Post cap	Bluedog pregalvanised steel cap (powder coated).
Material	Mild steel. Strength grade: C250 minimum. Zinc coating inside and out with 50 grams/ square metre minimum. Recommend 135 grams/ square metre minimum for increased corrosion resistance.
Weld type	All welds are Silicon bronze*. **This weld has superior corrosion resistance and powder coating film adhesion to a standard mild steel weld.*
Metal pretreatment	All product undergoes a 7 stage chemical pretreatment process to clean, etch and prepare the metal surface for powder application. This process includes submerging the product in two heated alkali degreasing baths, and a bath with a nanoceramic conversion coating that places a fine crystalline structure on the surface of the steel for the powder to 'key' into.

Powder coat	Interpon D1000 Excel™ is a new generation TGIC Free Polyester powder coating formulated on AkzoNobel proprietary resin technology. Interpon D1000 exhibits a tougher cured film which provides superior damage resistance to packaging materials. Interpon D1000 incorporates AkzoNobel patented Particle Management Technology providing outstanding powder application and enhanced recess penetration. Interpon D1000 is designed to give excellent long term exterior durability and colour retention and is available in a limited range of colours and in gloss, satin and matt finishes. Chemical: Polyester; or *For graffiti resistance:* Interpon EasyClean is a series of exterior durable powder coatings based on a chemically resistant resin system that is designed to allow the simple and rapid removal of most forms of graffiti. This ease of graffiti removal reduces overall maintenance costs and keeps the powder coated surfaces looking new and attractive. Interpon EasyClean is designed to offer a high level of scratch and abrasion resistance and is available in a wide colour range. Interpon EasyClean is recommended for use where resistance to graffiti is required. Typical end uses include train, tram and bus components, bus shelters, telephone boxes, school furniture and play equipment, outdoor park and street furniture, garden furniture, road signs, fencing and public buildings. Chemical: Polyurethane. Film thickness: ~80µm minimum.
Higher corrosion environments	Interpon PZ770 zinc-rich epoxy primer under the top coat to give much greater corrosion resistance in higher corrosion environments.
Applicable Australian Standards	AS 1450 – Steel tubes for mechanical purposes - Product Designation AS 1450/C250/ERW. AS 1397 – Steel sheet and strip – Hot-dip zinc-coated or alu/zinc coated - Product Designation AS 1397/G2. AS 1163 – Structural steel hollow sections – Product Designation AS 1163 C350LO. AS/NZS 4680:2006 – Hot dip galvanized (zinc) coatings on fabricated ferrous articles. AS 4506.2005 Metal finishing - Thermoset powder coatings. AS 1296.1 – 2007 Swimming Pool Safety – Safety Barriers for swimming pools.
Post footings	Fence posts Ø300mm x 500mm deep using 20mpa concrete for 900mm high fencing* Gate posts Ø450mm x 650mm deep using 20mpa concrete for 900mm high fencing* *subject to site specific soil conditions and loadings