

GuardForce® 358 Mesh Security Fencing

Product description	The fencing consists of a 2326mm wide (standard width) x 2387mm high welded mesh sheet supported by a top and bottom horizontal rails and secured to posts with anti-tamper fastenings.
Product application	Perimeter security for high voltage substation, pumping stations, technology parks.
Fence height	2400mm (standard) assuming 50mm gap under the fence.
Post spacing	2404mm post centres standard.
Gap under fence	50mm.
Sheet size	Standard: 2366mm wide x 2387mm high.
Rails	50x50x4mm x 2372mm long equal angle slotted to suit M8x30mm long cup head fastener. Hot dip galvanised after fabrication.
Close spaced Mesh	Wire: Ø4mm Zinc-Alu drawn wire. Line (horizontal) wires: 12.5mm centres. Cross (vertical wires): 75mm centres.
Channel posts	125x4x3250mm long. Individual post folded from 4mm strip with slotted front webbing. The posts are then bolted back to back on site with 5 x M12 bolt sets with four (4) standard nuts and one (1) shear nut to form a post assembly. Hot dip galvanised after fabrication.
Termination post	75x75x3mm x 4000mm long SHS with 4mm slotted webbing (screw on with 14g tek).
Corner post	75x75x3mm x 4000mm long SHS with 4mm slotted webbing (screw on with 14g tek).
Fasteners	Rails fixed to posts: M8x30mm long galvanised cup head with hex nut (1:5 shear security nut optional). Mesh to Posts and Rails: M8x30mm long galvanised cup head bolt with hex nut (1:5 shear security nut optional).
Single gate frame	65x65x2.5 SHS gate leaf and gate frame. 50x4x24mm unequal angle webbing welded into gate leaf to allow mesh to be secured on non-attack side of the webbing with a series of M8x30mm long cup head bolts at 250mm centres (nom.). 50x35x4mm slotted webbing fits on site to the outside of the gate frame with a series of 14g teks. Hot dip galvanised after fabrication.
Single gate hinging	Goliath (single) ball bearing hinge (top and bottom). Fitted on site to the gate frame and gate leaf with a combination of 2 x 14g teks and 1 x M8x90mm long bolt with a security (shear) nut. This hinge allows the gate leaf can swing back on itself but not through the opening*; or <i>Recommended for heavier duty applications:</i> SureClose hydraulic self closing hinge that screws to the hinge stile of the gate leaf and gate frame 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 suit the use of a Dead latch. This hinge allows the gate leaf can swing back on itself but not through the opening.* <i>* 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 frame.</i>
Double gate frame	65x65x2.5 SHS gate leaf with 50x4x24mm unequal angle webbing welded into the gate leaf to allow the mesh to be secured on non-attack side of the webbing with a series of M8x30mm long cup head bolts at 250mm centres (nom.); or <i>Recommended for heavier duty applications:</i> 75x75x3mm SHS gate leaf.

Double gate hinging	<p>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. The Bluedog HD1 hinge allows the gate leaf to swing 'through' the opening but not back on itself. The Bluedog HD2 and HD3 hinge allows the gate leaf to swing back on itself but not through the opening.</p>
Single gate locking hardware	<p>Chains screwed to latch stiles (fitted on site);</p> <p>Dead latch Lockwood 001 (option for Dead latch with a panic lever for emergency exit gates). Requires a mounting plate to be fitted on site to the latch stile; or</p> <p>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.</p> <p>Optional: Anti-tamper hand-hole unit cut and folded from 4mm plate. This unit that is welded to the gate frame (before galvanising) allows hand access from the outside to inside of the gate to operate the locking hardware but has an anti-climb profile and prevents attack of the internal hardware..</p>
Double Gate locking hardware	<p>Chains screwed to latch stiles (fitted on site); or</p> <p>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.</p> <p>Optional: Anti-tamper hand-hole (as per the single gate).</p>
Double gate drop bolt hardware	<p>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. The unit cannot be operated from the outside of the gate; or</p> <p>Ø16mm x 700mm long drop bolt (drop bolt guides and locking tabs welded to the gate stile during fabrication). The unit is pad lockable in the down position only. The unit cannot be operated from the outside of the gate.</p> <p><i>Optional:</i> Gate stop to fix to gate beam, to prevent the gate swinging outward and to support the gate in the gate in the closed position.</p>
Gate sizes	1.0m single gate, 4.8m double gate and 6.0m double gate (standard).
Gate posts	<p>100x100x5mm (4000mm long) 4.8m double gate*.</p> <p>150x150x6mm (4000mm long) 6.0m double gate*</p> <p>50x4x35mm unequal angle webbing fitted to the gate post on site to allow the mesh to be secured on non-attack side of the webbing with a series of M8x30mm long cup head bolts at 250mm centres (nom.). The webbing is fixed to the post with a series of 14g self-drilling tek screws (pre-drilling recommended). Fitting of webbing on site allows greater install flexibility.</p>
Topping options	<p>Ø550mm short blade razor barb loops fixed to 5 strands of lean barb fitted to barb extensions to posts to achieve finished fence height of 3000mm;</p> <p>Ø550mm short blade razor barb concertina style fixed to the top rail of fence with M8x30mm long bolts and hex nut at 200mm centres. with galvanised weld mesh clip; or</p>

	50x50x2mm serrated rail (fixes to top rail with M8x30mm long bolt) with serrated upper profile and hot dip galvanised after fabrication.
Material	Carbon steel. Strength grade: C350 minimum.
Weld type	All welds are structural steel welds to Australian Standard.
Compliance and approvals	BS 1722-14:2006 Part 14: Specification for open mesh steel panel. ENA Guidelines (ENA DOC 015:2006) 'National Guidelines for Prevention of Unauthorised Access to Electricity Infrastructure'. EN 10223-4:1998 Steel Wire and wire products for fences – Part 4. Steel wire welded mesh fencing. AS/NZS 1170.2 2002 Structural Design Actions, Part 2 wind actions. Essential Energy NSW.
Mesh wire tensile strength	500-550 MPa (to comply with AS 2423).
Mesh weld shear strength	60-80% of the wire tensile strength.
Mesh wire zinc coating mass	Zinc coating mass of 255g/m ² minimum (to comply with AS 4534 Class W10Z5A). The corrosion resistance and service life is a function of the zinc coating mass - less zinc coating equals lower corrosion resistance.
Steel work finish	Hot dip galvanised after fabrication (standard). AS/NZS 4680:2006 – Hot dip galvanized (zinc) coatings on fabricated ferrous articles.
Metal pretreatment	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. Film thickness: ~80µm minimum.
Post footings	Fence posts Ø300mm x 1000mm deep using 25mpa concrete for 2400mm high fencing* Gate posts Ø450mm x 1100mm deep using 25mpa concrete for 2400mm high fencing* *subject to site specific soil conditions and loadings