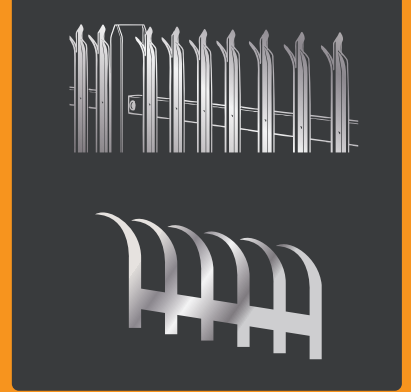


PALISADE & MAXIGUARD®



Gryffin Palisade and Maxiguard® are strong, robust, steel frame and picket, bolt together security fences, which are available in three grades. This provides a choice of cost versus performance from commercial to critical infrastructure applications. All are designed and made in Australia by Gryffin with high quality long life materials.



GRYFFIN
HIGH SECURITY FENCING & GATES
Smarter solutions, guaranteed.

PALISADE & MAXIGUARD®



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Gryffin Palisade and Maxiguard® are based on British Standard BS1722-12: 2006 Specification for Steel Palisade Fences, with differing grades of security. The highest grade is Security Purpose (SP), followed by General Purpose (GP). Gryffin have also designed their own standard, which is based on the British Standard, but not compliant to either SP or GP. We call this third option Gryffin Commercial Grade (CG). The steel pales come in a variety of thicknesses and steel grades. Pales come in 3mm W-Pale (SP), 3mm W-Pale (GP) & 2mm W-Pale (CG) formats. The choice of pale thickness and steel grade affects the degree of flexural strength which correlates to the degree of BS1722-12 compliance. The choice is yours.

- Australian made, by Gryffin
- Manufactured to British Standard BS1722 Part-12: 2006*
- Gryffin in-house design, engineering and manufacture
- Strong, robust - steel components resist attack
- Anti-tamper bolted system
- No stepping - follows ground contours (within limits)
- Low maintenance & long life
- Reduced freight costs with bolted assembly system
- Demarcation, deterrent and penetration delay

Maxiguard® by Gryffin is a curved top version of Palisade offering an even higher level of security

- Greater deterrent
- More difficult to climb
- More secure
- Just as strong



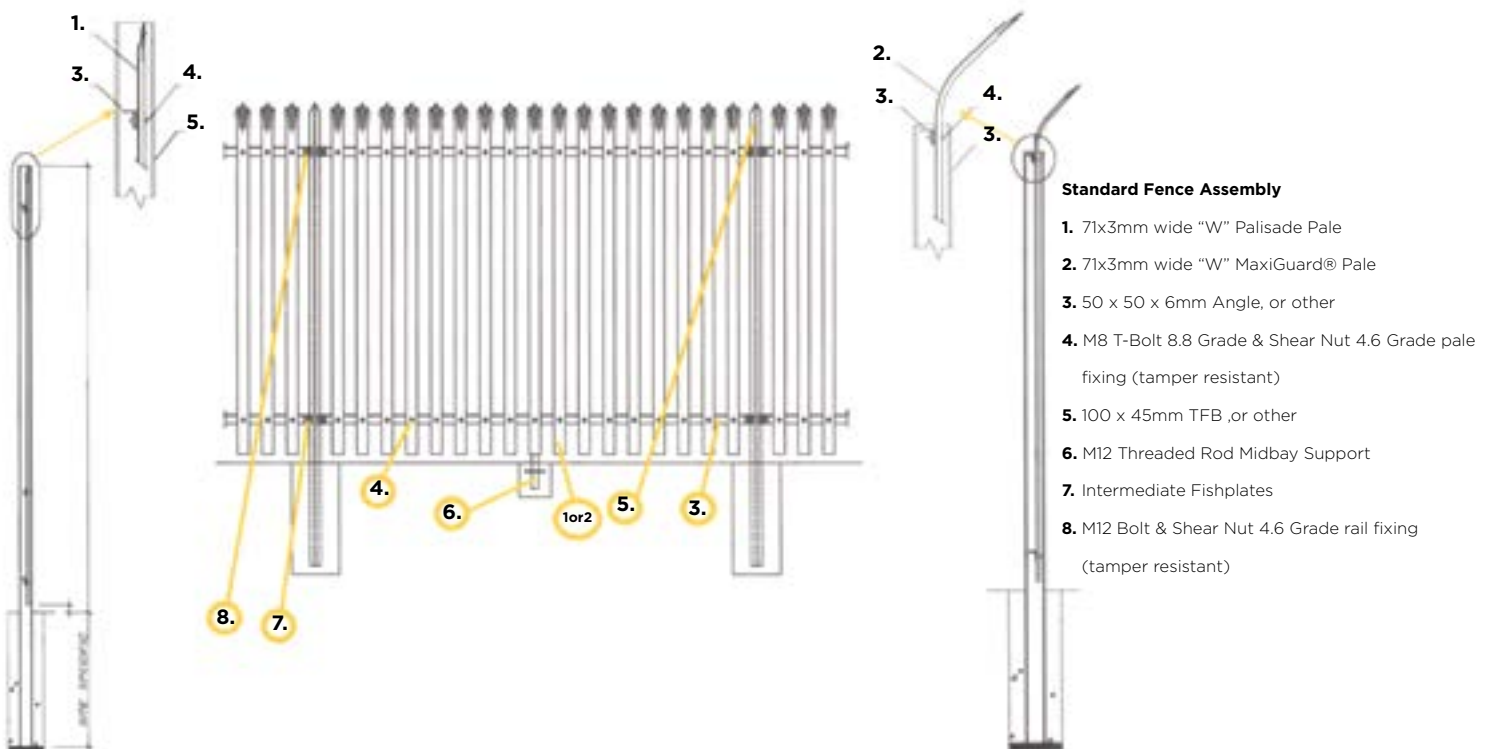
“W Pale”

PALISADE & MAXIGUARD® APPLICATIONS



- Utilities: Electricity substations, gas plants, water reserves, communication towers
- Railway
- Depots
- Swimming Pools
- Schools
- Car parks
- Business Parks, factories, warehouses, offices, and data centres
- Embassies
- Ports
- Commercial properties
- Sports grounds
- Police, Fire and Ambulance stations
- Any facility that requires a secure boundary or division

Gryffin is the 'go to' company for providing solutions to all these applications.



GRYFFIN SPECIFICATIONS

Palisade

Maxiguard®



Palisade & Maxiguard®

Are steel pale, post and rail security fences. They are a rigid bolted fence system with anti-tamper shear nuts. Palisade is a straight pale fence, and Maxiguard® provides increased scaling difficulty with an attack side outwardly curved pale top. Pales are in a 'W' profile which provides great strength. You also have the choice of standard 3mm pale thickness, 2mm commercial grade thickness, triple point spear top, single point spear top, or flat top. Due to Gryffin's smart design both Palisade and Maxiguard® can rake to sloping ground. Extra strengthening can be added with the Gryffin Enclosure® system or cable anti-ram system.

Both fences are Galvanized and made to BS1722-12 2006*, and can be supplied in various optional powder coat finishes.

Standard Fence Pale Form

Cold roll formed to "W" section design. Finished width 71mm. W-Pale heads are press formed and splayed to a "triple point". A finished pale is straight with no visible twist or warp. Pales are generally fence height less 50mm for ground clearance.

Tolerance:	Thickness	2.95 +/- 0.21
	Width	71mm +2mm/-1mm
	Length	+/- 0.25%

SP&GP manufactured to British Standard B.S. 1722 Part 12 2006.

Standard Fence Pale Material

HA300 for BS1722-12 2006 SP Grade
HA250 for BS1722-12 2006 GP Grade
HA3, Brightform or SPHC for Gryffin Commercial Grade
Yield strength: SP 320-380 MPa, GP 220-330 MPa
Tensile strength: SP 450-500 MPa, GP 340-370 MPa
Yield & Tensile strength for Commercial Grade confirmed at time of inquiry as they are subject to the steel type and availability.

Standard Fence Post Form

Cut to length to allow appropriate footing depth. Top of post cropped and bevelled to form point. Web slotted with 42 x 9mm slots to receive rail joining fish plates. Optimum post spacing is 2750mm or less. Hot dip galvanized after fabrication to A.S. 4680 - 2006. Manufactured to British Standard BS1722-12 2006.

Standard Fence Post Material

Tapered Flange Beam (TFB) 100 x 45mm x 7.20kg/m up to 2.4m in height Grade 300 plus, I: Moment of inertia Y Axis (90 deg to fence line) - 0.0795x10⁶mm⁴, X Axis (along the fence line) - 1.46x10⁶mm⁴. Minimum tensile strength 440 MPa. Material to Australian Standard AS 3679.1-300.

Fence Pale Spacing

152.56mm center to center (general).

Fence Post Dimensions

Fences can be made to any height upon request. Post length and type can be varied to suit site conditions or structural engineers requirements.

Standard Fence Rails

Equal Angle 50 x 50 x 6mm x 4.46 kg/m. 14mm square hole at 28mm centres from each end. 17 off 11mm ø holes punched at 152.56mm centres along length. Hot dip galvanized after fabrication to A.S. 4680 - 2006. Manufactured to British Standard B.S. 1722 Part 12 2006. Material to Australian Standard AS 3679.1-300.

Rail Joining Plates (Fish Plates)

Square edge flat bar 40 x 8mm x 2.58 kg/m. 140/110mm long with 2 off 25 x 14mm slots at 28mm centres from each end. Hot dip galvanized after fabrication to A.S. 4680 - 2006. Manufactured to British Standard B.S. 1722 Part 12 2006. Material to Australian Standard AS 3679.1-300.

Standard Mid-Bay Supports

500mm x M12 Galvanized Threaded Rod for vertical rail alignment.

Standard Fasteners

Rail to fish plate: M12 4.6 grade Galvanized bolt, and tamper proof shear nut.

Pale to rail: M8 8.8 grade Galvanized T-bolt and tamper proof M8 4.6 grade shear nut or at additional cost 6mm Pin and Collar rivet (Huck, Avdel etc).

Powder Coating

Standard powder coating is suitable for general non-corrosive environments, and greater than 1km from the sea. No Warranty provided. Harsh environment powder coat options with Warranty available. Conditions apply. Standard powder coat details:

- Hot degrease and iron phosphate clean
- First clean water rinse
- Second clean water rinse
- Dry and degas material in dry off oven
- Powder coat to 70 +/- 10 microns
- Cure material in cure oven to powder manufacturers specifications
- Pack all product with protective packaging for transport
- Complies to AS4506-2005

Touch Up

Galvanized finish: Following installation of all fasteners, break off points should be treated with a generous coating of zinc rich cold galvanising paint. Powdercoat finish: As above with the addition of a matching colour touch up paint.

Gryffin designs, engineers and manufactures to any requirement and specification required.

*For full BS1722-12:2006 SP compliance bolts need to be 8.8 grade and nuts tamper resistant to 8 grade, or compliant cold swaged pin and collar type. Gryffin provide, as its standard offering, 8.8 grade T-bolts for pales (as per BS) and 4.6 grade shear nuts (less than BS - as an 8 grade nut will not shear easily). Gryffin's standard Rail fixings are M12 4.6 Grade bolts and shear nuts. In Gryffin's expert opinion the bolt and shear nut meets functional and performance requirement, and is fit for purpose. If full compliance is required Gryffin will provide pin and collar type fixings at additional cost.



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