



شركة حديد
التقنية العليا
HITECH
STEEL INDUSTRIES

HiWeld 3D Extra

PALADIN STYLE VARIABLE MESH FENCING SYSTEM

1

Easy fixing security clips

2

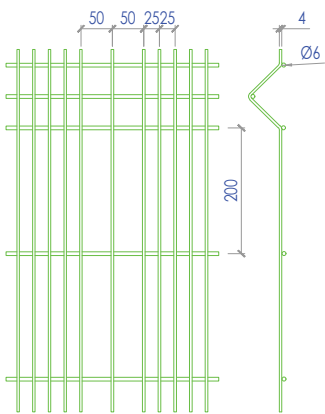
30 mm projecting spikes

3

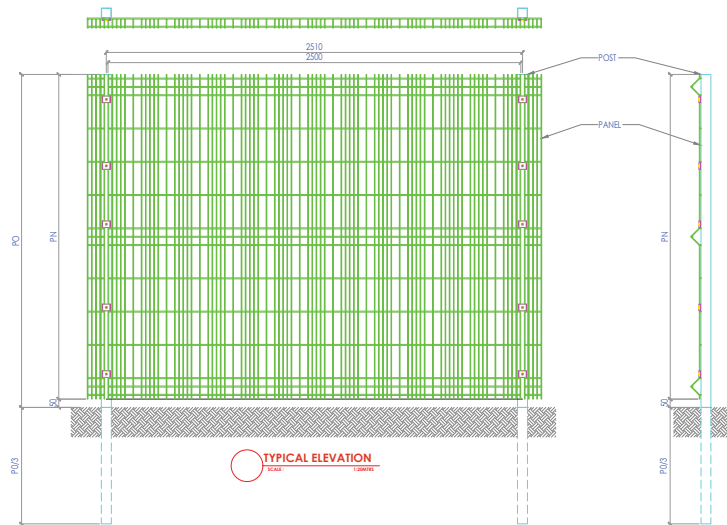
Fully resistant welded joints

4

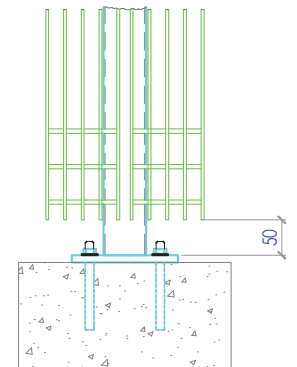
Galvanized and Polyester Powder Coated



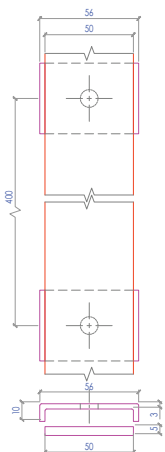
MESH DETAIL
SCALE: 1:10MTRS



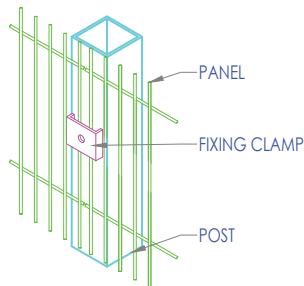
TYPICAL ELEVATION
SCALE: 1:10MTRS



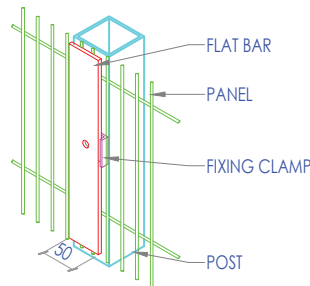
BASE PLATED
OPTIONAL



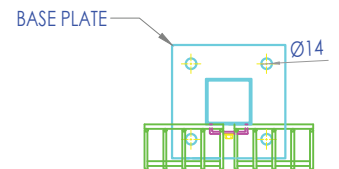
FIXING CLAMP DETAIL
OPTION 1



ISOMETRIC VIEW
OPTION 1



ISOMETRIC VIEW
OPTION 2



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www.hitech.sa
sales@hitech.sa

Building no 3824, Nira Street, 2nd
Industrial area, Riyadh 14338 RSNB3824





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FINISH

- Hot dip galvanized to BS EN ISO 1461 as standard
- Hot dip galvanized and powder coated to BS EN 13438
- Marine coat for installations within 500m of salt water or an estuary



SUITABLE

- High-security locations like airports and seaports
- Commercial properties
- Public Buildings
- Solar Sites
- Retail Premises



FEATURES

- Compatible with barbed wire, razor wire, or rota spikes.
- Includes wall fixing plates, base plated, and cranked posts.
- Features 200x50mm & 200x 25mm Mesh.
- Provides additional security by preventing unauthorized climbing.
- Offers strength and security without an intimidating appearance.
- Unique panel-to-post fixings resist tampering.
- Includes 2 to 4 folds depending on the fence height.
- Adjustable to accommodate sloping ground.
- Available in single leaf and double leaf configurations.
- Panels can be combined with a privacy screen for enhanced privacy and security.
- Panels can be stacked to create a taller fence.
- Heavy welded mesh panels ensure rigidity and long lasting performance.
- Available in unlimited colors to match your aesthetic preferences.

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Introducing the HiWeld 3DExtra profiled rigid mesh panel system, a paladin-style variable aperture mesh panel system designed to be both difficult to cut through and climb, making it the next step in perimeter security solutions. The HiWeld 3DExtra system comprises three major elements: Posts, Panels, and Fittings.

Posts

HiWeld 3D Extra is designed to secure properties of varying scales, with its name inspired by its hollow steel posts. These posts come in measurements of 40x40mm, 60x60mm, or 50x100mm, depending on the fence's height, providing the necessary strength to withstand pressure and force. The posts determine the fence's length and offer several mounting options:

- Over-length set in the ground
- Base plated for bolting onto concrete
- Cranked for wall mounting
- Covered with a plastic cap on top
- Extended with a 45-degree crank on top
- Extended with a double (Y) crank on top

Panels

The mesh between the posts is known as a panel. These wire mesh panels are 2500mm wide, made of 4mm vertical and 6mm horizontal wires welded together. They feature a rectangular opening pattern with two sections of 200 x 50mm and five sections of 200 x 25mm, enhanced by a special 3D profile for additional reinforcement. This popular decorative design gives your fencing a uniquely stylish 'striped' appearance while offering increased security. The standard panel heights are 950mm, 1450mm, and 1950mm, and panels can be stacked to create a fence up to 6000mm high. To enhance security and prevent climbing, options include:

- 30mm projecting spikes
- 3 or 6 barbed wires
- 3 or 6 barbed wires with a concertina role

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The tensile strength of the wires is a minimum of 500 N/mm², with the welding strength at least 50% of the total tensile strength of the wire, in compliance with EN 10223-7.

Fittings

The system uses rigid 40x50mm metal clips or 50x5mm flat bars along the full length of the post to secure the welded steel mesh panels. These fittings are bolted every 400mm using 8mm diameter round head bolts.

Gates

Matching single leaf and double leaf gates are available for the HiWeld 3D Extra fencing system. These gates come with a variety of opening mechanisms and can be manually or automatically operated.

Panel Height	950,1450,1950 mm (Can stacked above one another to deliver up to 6000 mm high fence.)
Panel Width	2500mm
Mesh Size	200 x 50mm 200 x 25mm
Wire Diameter	4mm or 6mm
Profiles	2-3
Top Edge Projection	30mm (Can be inverted for flush edges)
Post	40 x 40mm SHS (up to 6000mm) 60 x 60mm SHS (up to 6000mm) 50 x 100mm SHS (up to 6000mm)
Post Centers	2500mm
STANDARD COLORS	
Black	RAL 9005
Green	RAL 6005

Other colors are available on demand.

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