

مصنع شبك و حديد
التقنية العليا



hi-tech

Fence and steel ind.

Hi-Defensive and Welded Panel Fence.

2015-2016

info@nartel-ksa.com
www.hitechfence.com



شركة نارتيل للتقنية العامة
NARTEL GENERAL TECHNOLOGY COMPANY



Introduction

Welcome to Hi-Tech Fence and Steel ind.. One of the leading manufacturer of security fence system and steel Products. Subsidiary of Nartel was established in 2006 . It was a small setup, with one chain link weaving machine. On that foundation, Hi-tech has grown manifolds today, supplying complete suite of fencing products, to Saudi Arabia and all around the Middle East Countries.

Under the able veneration of our mentor, Mr. Muhammad Javaid Iqbal, we have gained a strong foothold in the industry. With his profound experience, we are at the apex in the manufacturing of Steel Products and Security Fencing solutions for the entire community. Hi-Tech has developed a very sophisticated manufacturing facility and the company constantly invests in the latest technology.

Offered products are manufactured with utmost precision by making use of quality tested raw material and ultra-modern technology under the direction of skilled professionals. Extensively used for security purposes, this fencing can be customized to meet the exact requirements of the customers. The fencing provided by the prominent manufacturers, exporters and suppliers is made available in numerous designs, sizes and finishes.

We have three divisions:

1) Fence products division

Hi-tech has developed itself into a one-stop shop for all fencing requirements. Hi-tech provides premium quality Security Fencing and offered solutions for a wide variety of applications, whether it be political borders, oil and gas pipelines, prisons, corporate buildings, homes, gardens, swimming pools, industrial zones, highways, stadiums, schools, farms, green houses, farm houses (istrahas), etc. The provided fencing is highly applauded by the customers owing to its salient attributes such as high security to low security need, cost, architecture look, durability, strength, anti-corrosive or excellent finish. The products come under this category are chainlink fence, welded panel fence, welded mesh, decorative panel, camouflage green walls fence, hi-defensive security barrier, railing, grating, barbed wires, concertina coil, and wiremesh partition system etc.

2) Misc. Steel products Division

Hi-Tech is well suited to handle your miscellaneous steel needs; we want to give you some idea of the scope of our steel fabrication abilities. Here are just a few of the items that we've used our miscellaneous steel experience such as Handrails, Bridge Rails, Platforms, Cage Ladders, Stairs, Trash Screen, Canopies, Traffic Barriers, Bollards, Wire mesh Partition system, Steel grill – Grating, Checkered plats, GSM Antenna bracket and Cable tray / Cable ladder etc.

3) Steel bar re-rolling division

To take the lead & full fill the market demand HI-Tech has installed a modern high speed Steel Rolling plant based on latest technology of the world. We fabricate the high quality reinforcement steel and round bar grade 60 with dia range 10mm, 12mm, 14mm, 16mm. we fabricate the square bar and flat bar with size of 10x10mm, 12x12mm, 14x14mm and 16x16mm bar.

Steel, given by God, Fence made by us.

INDEX

Panels

**K-Dag
Decorative
Fence**

01



Post

**K-DAG Solar
Lighting Fence
System**

02



Panels

**Standard
Welded
Panel**

03



Panels

**Security
Panel**

04



Mesh

**HI-Weldmesh
fence**

05



Gates

**Cantilever
Rail Gate**

06



Gates

**Sliding
Rail Gate**

07



Gates

**Double
Leaf Gates**

08



Fence

**HI-defensive
Fencing**

09



Fence

**Hi-Defensive
Deco**

10



Fence

**Hi-Defensive
Extra**

11



Fence

**Defensive
Barbed Top**

12



Fence

**Hi-Defensive
Xtreme**

13



Fence

**HI-Defensive
Sentry
Fencing**

14



Panels

**HI-Tri Guard
Fencing**

15



Fence

**HI-Defensive
Bow Top**

16





The system is complete decorative fencing system developed for design oriented and rigid fencing system

K-DAG Decorative fence :

Galvanized and PVC coated decorative with option of aluminum K-Dag solar post and SHS steel post

Introduction :

K-DAG decorative fence is made with 6mm vertical wire and ornament 8mm or 4mm and 6mm horizontal wire welded together at each intersection with 1.13m, 1.55m, 1.98m height. It very low coat, durable and very bountiful option and fist time in Saudi Arabia with aluminum post with solar lighted post. It is very smart choice to protect your property with nice architect look, low cost, and 1st time in Saudi Arabia with aluminum post with solar lighted post.

Benefit :

- It is professional fence with unique contemporary design. The panel are rebuts and yet extremely elegant and decorative.
- The system is very easy to install. All elements are precisely integrated and the system allow in stallation between and on wall
- It exist in deferent height, with assorted posts, swing gates (single or double) and installation accessories.
- Very robust mesh
- Impact resistant – its mesh size prevents climbing
- Good color stability

Applications

- parks
- road edges
- Front yard of residential / commercial building
- Villas



Gates:

This system is totally finished and safely equipped with single or double gates.

Posts:

- Fence post made of SHS 50x50mm or 63.5x63.5mm with 2.52m interval with option of plate welded at bottom for concrete surface application or anchored for soil/concrete surfaces.
- 120x100mm K-DAG Aluminum post with 2.60 interval with option of solar light and without solar light
- Supplied with clamp, fixing accessories, nut and bolts



Concrete surface application



Soil surface application



Concrete surface application



Soil surface application

Panels :

The panel is out of heavy welded fence, 2500mm wide and available in 3 height. The mesh size is 55x200mm. The wire is very strong. The horizontal is 6mm and 8mm and vertical is 6mm. the wire sizes can be changed to meet any budget requirements

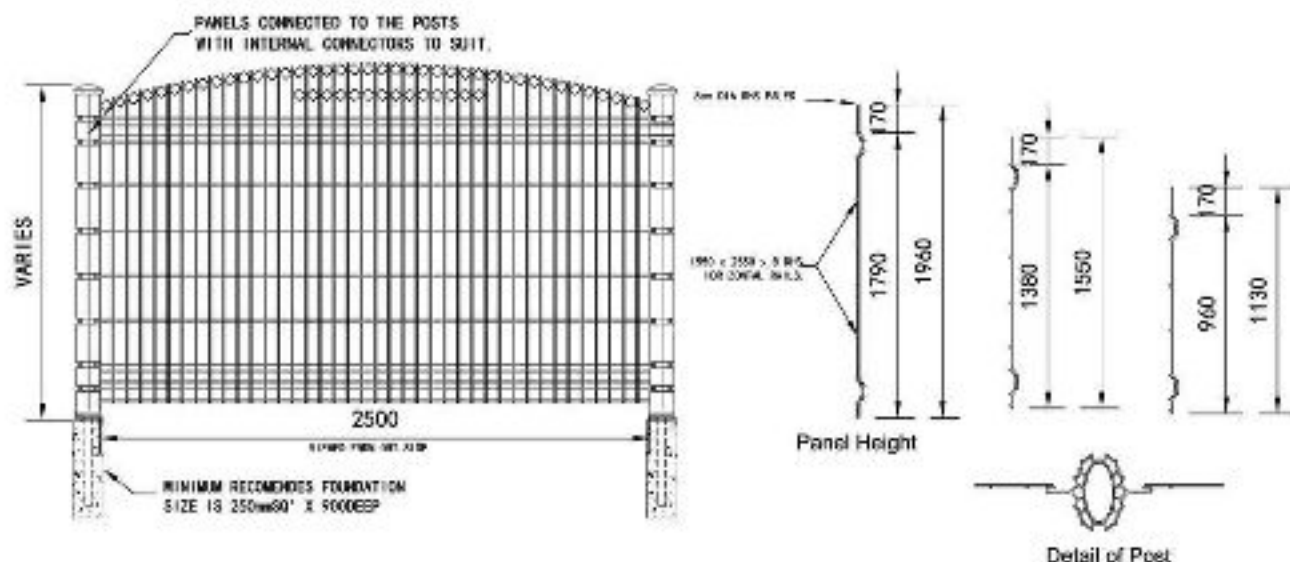
Standard colours :

Green (RAL6005), white (9010), and black (ral 9005)
More and other colors can be selected and can be available on request

Finish options:

Products are hot deep Galvanized to BS EN 1461
Galvanized and Powder coated to BS EN 13438
Hotdip Galvanized and PVC Coated.
Only powder coating to non standard
Marine coat Coating for application near salt water

Standard Drawing :



Standard Dimension :

Coating type name	Height (mm)	mesh size	wire thickness	panel length (mm)	post specification	post length (mm)	
						for anchoring	base plate welded
Hot Dip Galvanized Coated	1130	55 x 200 mm	6 mm vertical wire and ornaments 5 mm or 04 mm & 5 mm horizontal wires or 5 mm	2500	50x50mm Or 63.5x63.5mm SHS profile post with 2.52m interval	1630	1130
Hot Dip Galvanized and electrostatic polyester Coated	1550					2050	1550
Hot Dip Galvanized and electrostatic PVC Coated.	1960					2460	1960

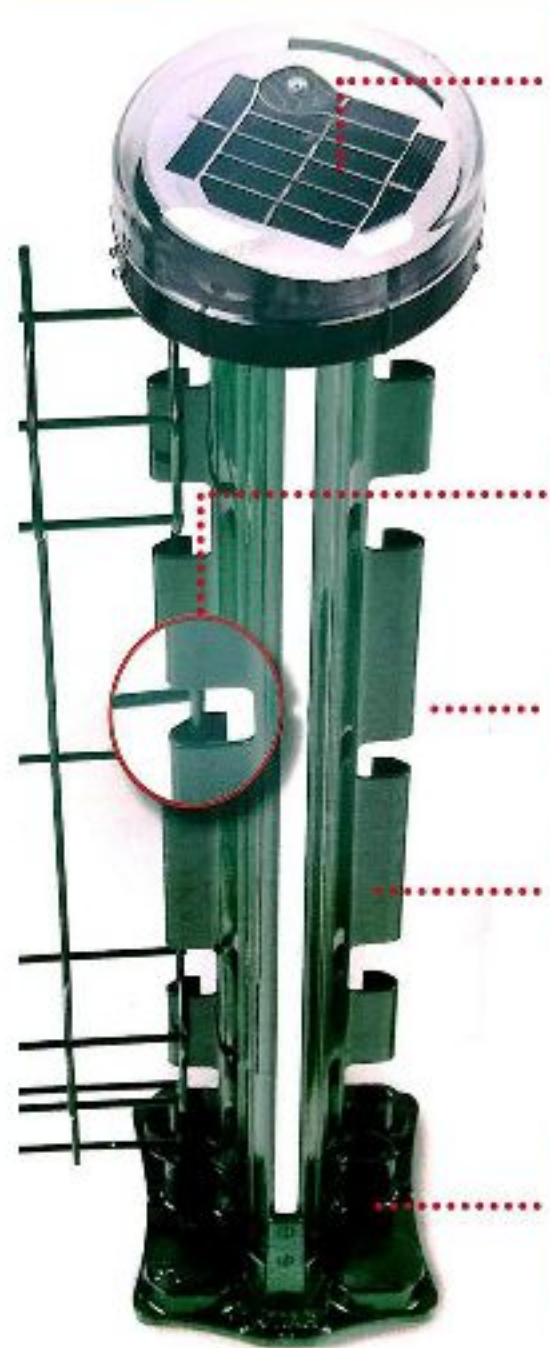




The First solar Power illuminated Fence System in the world. Available from 50cm to 3m Height. It can be used with K-DAG Decorative Fence System and Hi-Welded Panel Fence system.

K-DAG Solar Lighting Fence Post:

Introduction:



- Illuminaire option due to Solar Panel Cap.
- Optimum productivity due to up-down movement and circular shape of solar panel.
- Optimum illuminaire with minimum energy.
- High resistance against extreme weather condition and anti-vandal feature due to polycarbon material
- No fitting due to side fixation.
- No drilling or Welding is required.
- High rigidity due to unique design.
- Made of Aluminum for anti-corrosion
- Special designed base plate which does not require any welding for anchoring
- Special cap for anchor bolt which bring anti-vandal feature.

Post :

- Illuminaire option due to Solar Panel Cap.
- Optimum productivity due to up-down movement and circular shape of solar panel.
- Optimum illuminaire with minimum energy.
- High resistance against extreme weather condition and anti-vandal feature due to polycarbon material.
- Suitable for corner application up to 135 degrees.
- No drilling or Welding is required.
- Suitable for sloppy terrain due to flexibility attributed to side notches of post.
- No fitting due to side fixation.
- High rigidity due to unique design.
- Made of Aluminum for anti-corrosion
- Special designed base plate which does not require any welding for anchoring
- Special cap for anchor bolt which bring anti-vandal feature.

Finish options:

- Products are hot deep Galvanized to BS EN 1481
- Galvanized and Powder coated to BS EN 13438
- Only powder coating to non standard
- Marine coat Coating for application near salt water

Standard K-DAG Post :



- High rigidity due to unique design.

- Made of Aluminum for anti-corrosion.

- Special designed base plate which does not require any welding for anchoring
- Special cap for anchor bolt which bring anti-vandal feature.

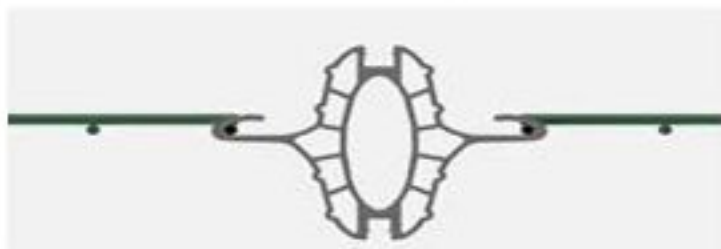
K-DAG Aluminium Post Installation



Concrete surface application



Soil surface application



Standard Dimension :

Code	Technical Specification	Standard Fence Post	K-DAG Post
K-DAG	Drilling Process	Yes	No
	Fittings	Yes	No
	Weldings	Yes	No
	Additional Post at Corner App.	Yes	No
	Slop Terrain	Fixation hole opens based on terrain slop	Suitable for sloppy Terrains
	Aesthetic	50x50mm or 60x80mm SHS Profile	Special designed for fence usage
	Maintenance Cost	Require maintenance	Maintenance free
	Various Welded fence Systems	Different Welded fence systems requires	Suitable for all welded fence systems
	Corrosion	Metal yes	Aluminium : No
	Savings	100m Panel at 100	96 Panel at 100m





**Economically Durable
and High Quality.**

Hi-Welded Panel:

Introduction:

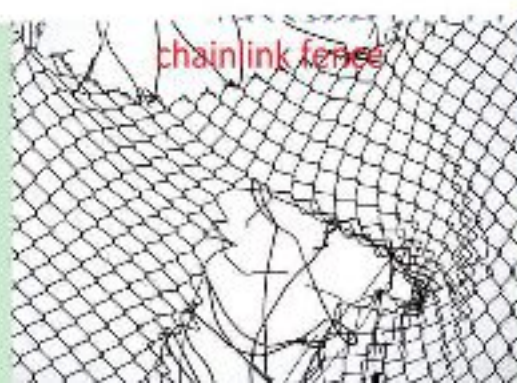
Hi- Welded panel fencing systems are made with 5mm/4.5mm dia vertical and horizontal wire and come with barbed at top and welded with rectangular mesh size of 50 x 200 mm with a special 3d profile for additional reinforcement . Hi- Welded panel fencing is a mechanically sturdy and durable products that also meet all visual criteria. Depending on the requirements imposed by the object to be protected and on your individual demands. Hi-tech's standard systems are characterized by the use of environmentally friendly material. For all products, Hi-tech uses galvanization and powder coating for up-to-date corrosion protection.

Benefits:

- A long service life with little or no manufacture required.
- Extremely high resistance to vandalism combine with excellent visibility throw the fence.
- Welded wire fence panels are fence products similar to chain link fence. They are both long-lasting and low priced. Welded wire fence panels come in a variety of different designs and strengths. Welded wire fence panels can be used to build a multi-purpose fence. A chain link fence is basically woven together using wires of different lengths. Welded wire fence panels are made of interconnected wires that are welded together. Due to weld together welded wire fence much secure and achieve more strength than chain-link fence with similar cost.
- The installation of welded wire fence panels is simple and easy.

Applications

- Parks
- School
- Residential
- Demarcation
- Low-Medium Risk
- High Risk





unique system to develop
to combine very high
rigidity and security
with an aesthetic design

Hi-Secure Panel:

Galvanized and painted welded panel for high degree of security is essential

Introduction:

The panel are heavy welded mesh with small rectangular apertures for providing high degree of security with the most discreet visual impact on the environment. Due to the large wire diameter 4mm and the restricted width of mesh 12.7mm x 76.2mm or 20mm x 75mm. several panel can be installed one above to other. Weld strength is minimum of 50% to steel strength granted on every weld. In test, performed by specialized police department, the mesh had a delay factor 40X greater than other fence products.

Benefits:

- High security, attractive design, long lifetime, good see-through vision, durable and easy installation.
- Security barrier against climbers, not allowing foot or hand holds.

Applications

- Prisons
- Airports
- Military
- Boundary
- High security area



Panel:

The panel or heavy welded mesh, provided with horizontal reinforcements.

Width: 2.50m and 2.25m

Mesh size: 12.7mm x 76.2mm and 20mm x 75mm (HxW)

Wire diameter: 4mm

General characteristics	Value	Unit of measurement	International norms
Wire tensile strength	540-615	ny/mm ²	
Welding resistance point	> 3.78	N	ASTM- A 185-06
Zinc weight (min)	285	g/m ²	UNI-EN 10244-2

Gates:

Hi secure panel system is supplied with matching gates using the same high security mesh infill as the fence. Single or double swing or sliding gates.

Finish options:

Products are hot deep Galvanized to BS EN 1461

Galvanized and Powder coated to BS EN 13438

Hot Dip Galvanized and PVC Coated

Only powder coating to non standard

Marine coat Coating for application near salt water

Post :

Option :01 Post are 63.5 x 63.50mm SHS, and 80x80mm SHS with high yield strength steel provide the ultimate in high security, rigidity and ease in installation and these post are predrilled with holes for fixing panel. It is provided with two type of fixing accessories



• 50 x 5mm cover plate section with pre-drilled hole for fixing panel. The panel are fixed to post by using the galvanized/ stainless steel

(M8x75mm) round headed bolts and nuts.



• 50x 50 x 5mm fixing clip with predrilled hole for fixing panel. The panel are fixed to post by using the galvanized/ stainless steel (M8x75mm) round headed bolts and nuts.



Option :02

• 120x100mm K-DAG Aluminum post with 2.60 interval with option of solar light and without solar light

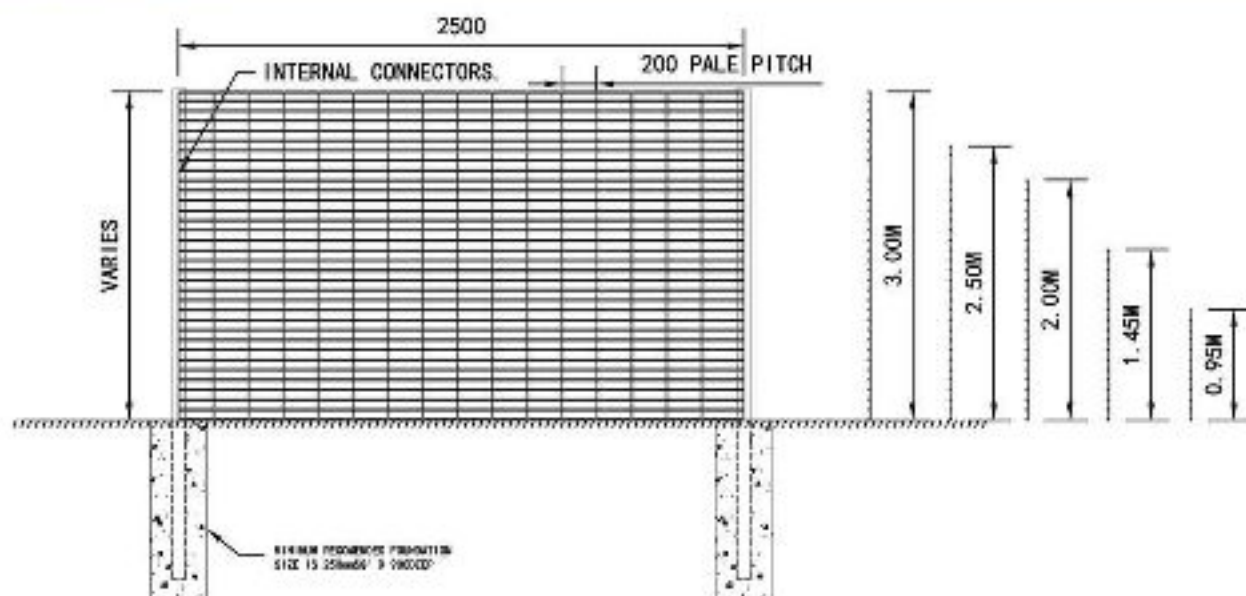
• Supplied with clamp, fixing accessories, nut and bolts

Concrete Surface Application



Soil Surface Application

Standard Drawing :



Standard Dimension :

Coating type	Mesh size	Height	Panel length	Wire thickness	Fence post
95% zinc - 5% aluminum coated wire	12.7mm x 76.2mm Or 20mm x 75mm	0.95m	2.5m	4mm	63.5mm x 63.5mm or 80mm x 80mm or as per the extended height
Hot dip galv. coated		1.45m			
Hot dip galv. And Electrostatic polyester coated		2.00m	2.25m		
Hot dip Galv. And PVC coated		2.50m			
		3.00m		Horizontal: 4mm and vertical 6mm or as needed	130x149mm security K-DAG aluminum fence post





**Easy installation,
aesthetic, durable and
economic solution**

Hi-Weldmesh Fence:

Galvanized and PVC coated welded mesh in rolls

Introduction:

Hi- Weldmesh Rolls made with bright drawn mild steel wire and electronically welded at every intersection. It is Galvanized After Weld. These products are made by dipping previously welded mesh into a bath of molten zinc. The entire fence or mesh, including the welded areas, is thoroughly sealed and protected against rust and corrosion. It is available in 25m roll and wire thicknesses between 2.5mm and 2.8mm, and option of PVC coated with 2.5/3.0 and 3.0/3.55mm and in different mesh patterns - 50 x 50mm, 50 x 100mm or 50x200mm. A range of heights of weld mesh fencing rolls is available from 1.0m to 2m high.

Benefits:

- Welded mesh is more dense, welded on each connection and rigid compare to chainlink system.
- The wire is (galvanisation + primer + organic coating) ensures a unique corrosion protection, a perfect adhesion of the organic coating and a durable smooth surface
- Very robust mesh
- Impact resistant – its mesh size prevents climbing
- Good colour stability

Applications

- Residential
- Industry
- Sport



Mesh :

Welded mesh W 50 x 50mm, 50 x 100mm or 50x200mm
Galvanized Horizontal and vertical wires Ø: 2.5 and 2.8 mm
Galvanized and PVC Horizontal and vertical wires Ø: 2.5/3.0 mm and 3.0/3.55mm.

Tensile Strength of wire.

Horizontal	Vertical
400-550 N/MM ²	650-850 N/MM ²

Gates:

Matching gate are available in single or double leaf, swing, sliding and tracked in manual operation or automatic.

Finish options:

Products are hot deep Galvanized to BS EN 1461
Galvanized and Powder coated to BS EN 13438
Hot Dip Galvanized and PVC Coated
Only powder coating to non standard
Marine coat Coating for application near salt water

Post :

- Post made of 50mm dia pipes as per BS or ASTM standard
- Supplied with clamp, fixing accessories, nut and bolts
- In option of post welded on the base plate, post with 45° crank extension, post with double Y crank extension or post length extended.

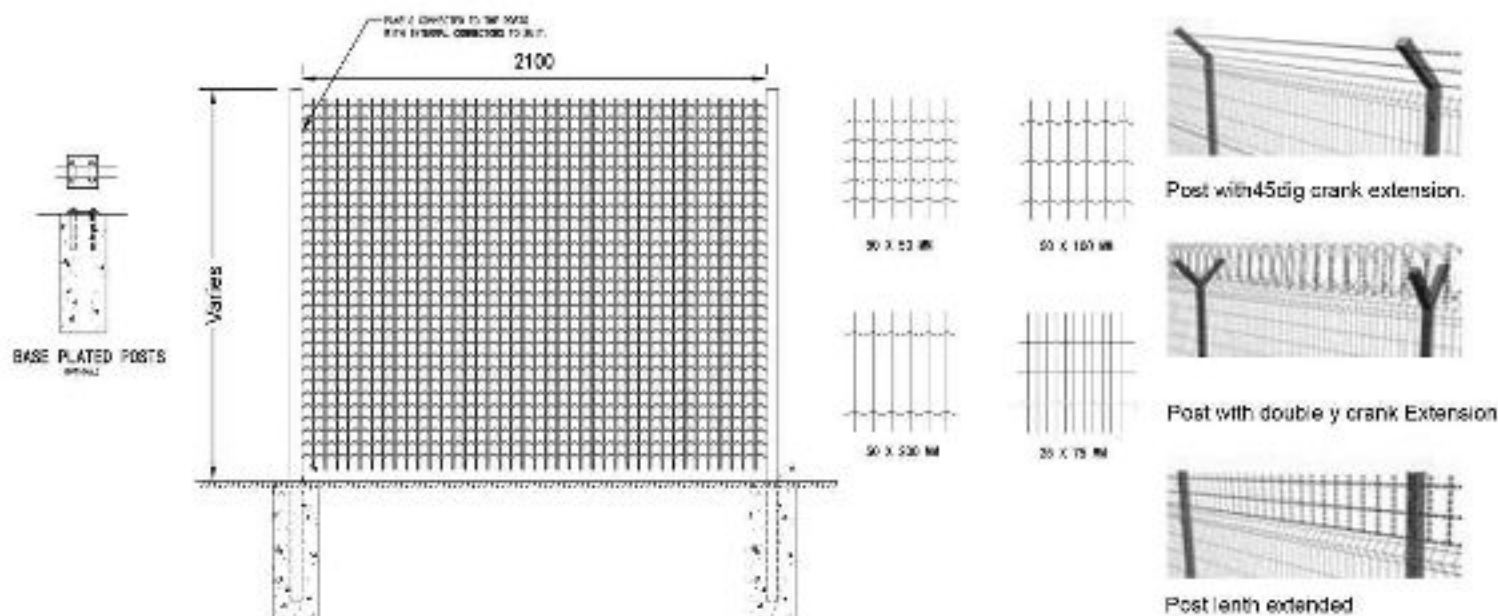


Concrete Surface Application



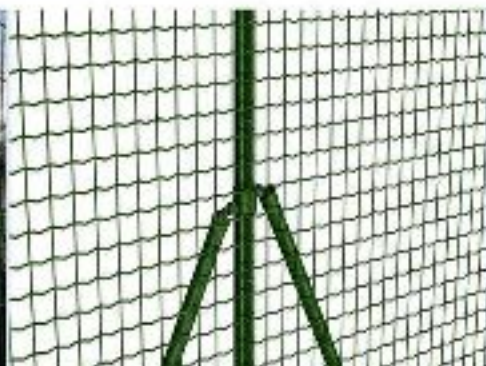
Soil Surface Application

Standard Drawing :



Standard Dimension :

mesh height	mesh dimension	Wire diameter	Nos of Tension Wire	Post with Extension Length			Post with 45° cranks			Post with double (Y) crank		
				*Post Diameter	Nos of barbed wire	Total Height	*Post Diameter	Nos of barbed wire	Total Height	*Post Diameter	Nos of barbed wire	Total Height
1000		Galv. 2.5mm &	2	50mm	3	1350	50mm	3	1350	50mm	6	1350
1200	50x50mm,	2.8mm / PVC coated	2	50mm	3	1550	50mm	3	1550	50mm	6	1550
1500	50x100mm, and	2.5/3.0mm &	3	50mm	3	1850	50mm	3	1850	50mm	6	1850
2000	50x200mm	3.0/3.5mm	3	50mm	3	2350	50mm	3	2350	50mm	6	2350

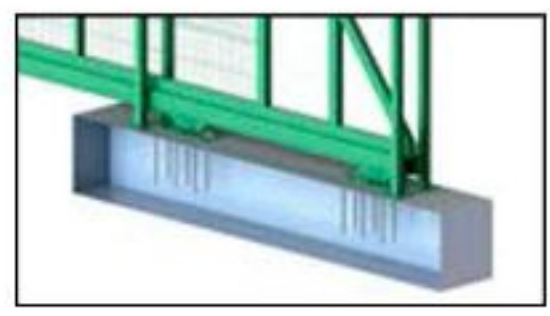




Cantilever Rail Gate:



Guide Rollers



Cantilever Roller Section

Available in different dimension and specifications.





Sliding Rail Gate:



Rail Detail



Guide Rollers

Available in different dimension and specifications.

Sliding Rail Gate with Sheet cover





Single Leaf Gates :



Single Leaf with Decorative Panel Infill



Hinge Detail



Ball Type Handle with Cylinder Lock



Special Design Gate

Single Leaf with Wrought Iron Infill



Single Leaf with Welded Panel Infill



Single Leaf with Sheet Infill





Double Leaf Gates :



Guide Rollers



Handle Detail



Hinge Detail



Drop Rod Detail

Available in different dimension and specifications.





Security square pale railing

Hi-Defensive Fencing:

BENEFITS

Square pale security railing :

Defensive features are welded pale-through-rail construction which means there are no rivets to be forced or palings to be removed. The horizontal rails are sleeved on to the up-right posts to provide a seamless design that is both stylish and incredibly strong.

Complete system :

- Anti-climb design.
- Various mounting options including on wall, inset and free standing Unique vandal-proof panel to post connectors
- Post tops can be customised for barbed wire / razor wire / fence spikes / electric fence or adapted to mount CCTV cameras
- Conforms to BS EN 1722-9.
- Custom designs available.
- Pale spacing conforms to Building Regulations for anti-trap.
- Pales can be specified to include finials.
- Panels can be made to accommodate sloping ground.
- Seamless, concealed rail to post fixing.
- Welded pale-through-rail construction.
- Can be designed around any terrain
- Suitable for almost any application from decorative and secure to highly secure

Applications

- Parks
- Schools
- Residential
- Demarcation
- Low - Medium Risk
- High Risk



Panels :

Constructed upto 3000 mm high and have two horizontal RHS rail 60x30x2 mm and pales are 25x2 mm square section which cut at 45 degrees from top to form a point

Posts:

Construction as per the panel high by using RHS 63.5x63.5mm in option of set in concrete or base plate welded at bottom

Gates:

Matching gate are available in single or double leaf, swing, sliding and tracked in manual operation or automatic.

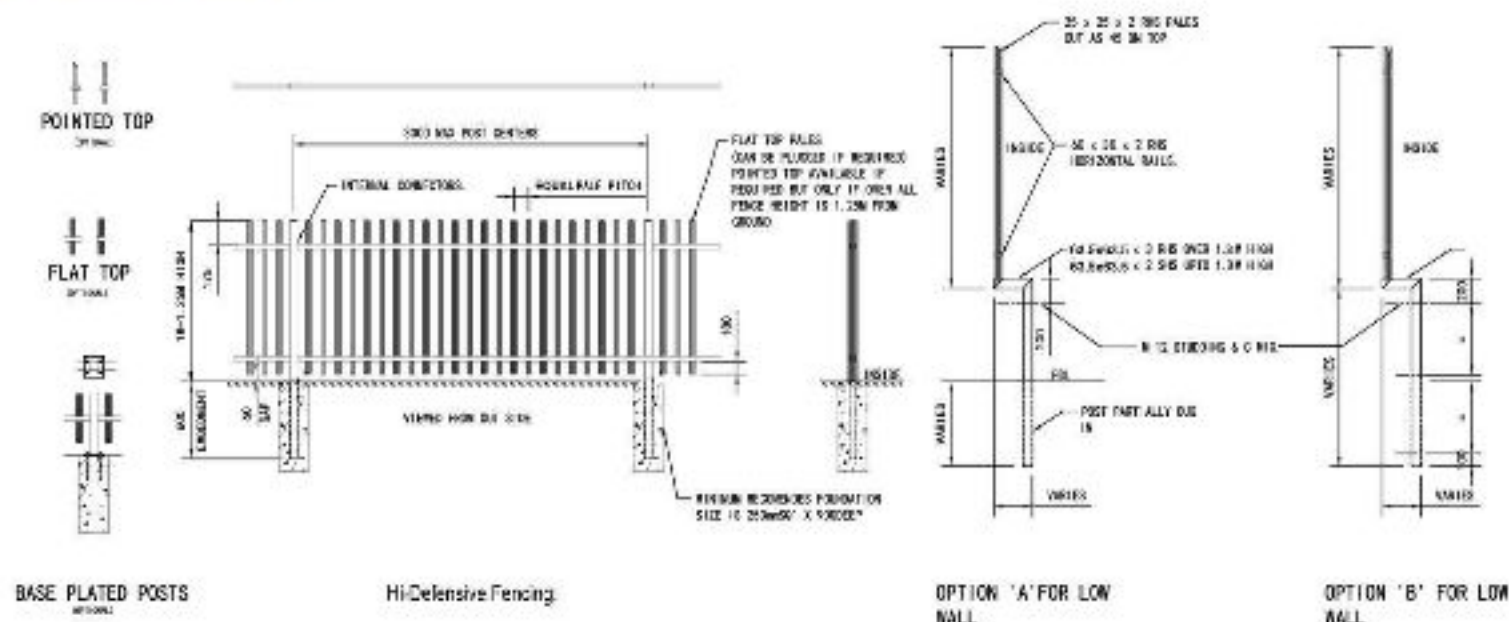
Finish options:

Products are hot deep Galvanized to BS EN 1461
Galvanized and Powder coated to BS EN 13438
Only powder coating to non standard
Marine coat Coating for application near salt water

Standard colours :

Black RAL 9005 Green RAL 6005
White RAL 9010 Blue BS 20-C-40
Blue RAL 5010 Brown RAL 8017
Yellow RAL 1018 Grey RAL 7012
Red RAL 3020

Standard Drawing :



Standard Dimension :

Code	Height	Pales	Post Size	Post Center	Set in Concrete	Base Plated	Horizontal Rail
HD100	1.0m	25mm square	63.5x63.5x2x1800mm	3.0m Center	180x180x600	300x300x150	60x30x2mm
HD125	1.25m	25mm square	63.5x63.5x2x1800mm	3.0m Center	180x180x700	300x300x230	60x30x2mm
HD150	1.5m	25mm square	63.5x63.5x2x2100mm	3.0m Center	180x180x800	300x300x250	60x30x2mm
HD180	1.6m	25mm square	63.5x63.5x2x2500mm	3.0m Center	180x180x800	300x300x250	60x30x2mm
HD250	2.5m	25mm square	63.5x63.5x3x3300mm	3.0m Center	250x250x800	350x300x430	60x30x2mm
HD300	3.0m	25mm square	63.5x63.5x3x3800mm	3.0m Center	300x250x900	350x300x610	60x30x2mm





High security square pale railing with anti climb feature top

Hi-Defensive Deco:

BENEFITS

Round Pale Security Railing :

Defensive Decorative with its 25mm and 32mm diameter round pales delivers all the advantages of the defensive with no reduction in strength or security. Defensive Decorative is available with a choice of decorative finials and post tops to offer the right solution for even the most prestigious applications.

The welded pale-through-rail construction which means there are no rivets to be forced or palings to be removed. The horizontal rails are sleeved on to the upright posts to provide a seamless design that is both stylish and incredibly strong.

Complete system :

- Anti-climb design.
- Various mounting options including on wall, inset and free standing Unique vandal-proof panel to post connectors
- Post tops can be customized for barbed wire / razor wire / fence spikes / electric fence or adapted to mount CCTV cameras
- Conforms to BS EN 1722-9.
- Custom designs available.
- Pale spacing conforms to Building Regulations for anti-trap.
- Pales can be specified to include finials.
- Panels can be raked or stepped to accommodate sloping ground.
- Seamless, concealed rail to post fixing.
- Welded pale-through-rail construction.
- Suitable for almost any application from decorative and secure to highly secure

Applications

- Parks
- Schools
- Residential
- Demarcation
- Low - Medium Risk
- High Risk



Panels :

Constructed upto 3000 mm high and have two horizontal RHS rail 60x30x2 mm and pales are 25x2 mm CHR Round pipes for height up to 2.0 m (32x2 mm for > 2.0 m high) which cut at 45 degrees from top to form a point

Posts:

Construction as per the panel high by using RHS 63.5x63.5 mm up 3.0 m High in option of set in concrete or base plate welded at bottom

Gates:

Matching gate are available in single or double leaf, swing, sliding and tracked in manual operation or automatic.

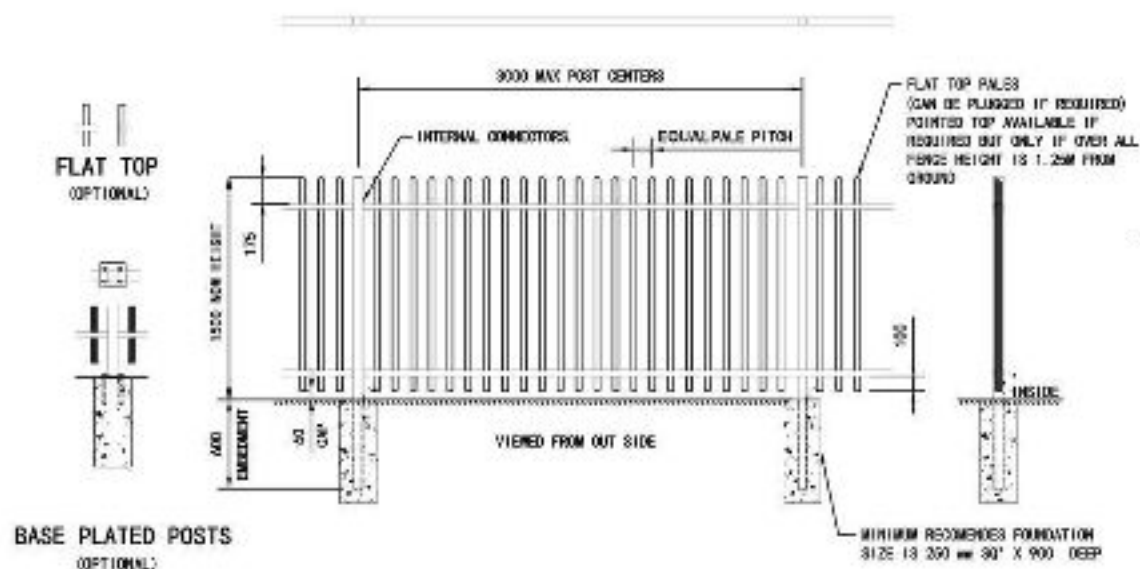
Finish options:

- Products are hot deep Galvanized to BS EN 1461
- Galvanized and Powder coated to BS EN 13438
- Only powder coating to non standard
- Marine coat Coating for application near salt water

Standard colours :

- | | |
|-----------------|-----------------|
| Black RAL 9005 | Green RAL 6005 |
| White RAL 9010 | Blue BS 20-C-40 |
| Blue RAL 5010 | Brown RAL 8017 |
| Yellow RAL 1018 | Grey RAL 7012 |
| Red RAL 3020 | |

Standard Drawing :



Standard Dimension :

Code	Height	Pales	Post Size	Post Center	Set in Concrete	Base Plated	Horizontal Rail
HDD100	1.0m	25mm round	63.5x63.5x2 x1800mm	3.0m center	180x180x600	300x300x150	60x30x2mm
HDD125	1.25m	25mm round	63.5x63.5x2 x1800mm	3.0m center	180x180x700	300x300x230	60x30x2mm
HDD150	1.5m	25mm round	63.5x63.5x2 x2100mm	3.0m center	180x180x800	300x300x250	60x30x2mm
HDD180	1.8m	25mm round	63.5x63.5x2 x2500mm	3.0m center	180x180x800	300x300x250	60x30x2mm
HDD200	2.0m	25mm round	63.5x63.5x2 x2800mm	3.0m center	200x220x800	300x300x350	60x30x2mm
HDD250	2.5m	32mm round	63.5x63.5x2 x3300mm	3.0m center	250x250x800	350x300x430	60x30x2mm
HDD300	3.0m	32mm round	63.5x63.5x2 x3800mm	3.0m center	300x250x900	350x300x610	60x30x2mm





Square Pale Security Railing, with anti climb feature topping

Hi-Defensive Extra

BENEFITS

Square Pale Security Railing, with anti climb feature topping

Defensive Extra panels contains additional pales through the top rail and between each full pale to get more security.

The welded pale-through-rail construction which means there are no rivets to be forced or palings to be removed. The horizontal rails are sleeved on to the upright posts to provide a seamless design that is both stylish and incredibly strong

Complete system

- Anti-climb design.
- Various mounting options including on wall, inset and free standing Unique vandal-proof panel to post connectors
- Conforms to BS EN 1722-9.
- Custom designs available.
- Pale spacing conforms to Building Regulations for anti-trap.
- Panels can be raked or stepped to accommodate sloping ground.
- Seamless, concealed rail to post fixing.
- Welded pale-through-rail construction.
- Suitable for almost any application up to highly secure

Applications

- Parks
- Schools
- Residential
- Demarcation
- Low - Medium Risk
- High Risk



Panels :

Constructed up to 3000 mm high and have two horizontal RHS rail 60x30x2 mm and pales are 25x2 mm square pipes full pale .Extra Pale with length 390 mm added through the top rail and between each full pale. All Pales cut at 45 degrees from top to form a point

Posts:

Construction as per the panel high by using RHS 60x60 mm for high 2.25m or more , in option of set in concrete or base plate welded at bottom

Gates:

Matching gate are available in single or double leaf, swing, sliding and tracked in manual operation or automatic

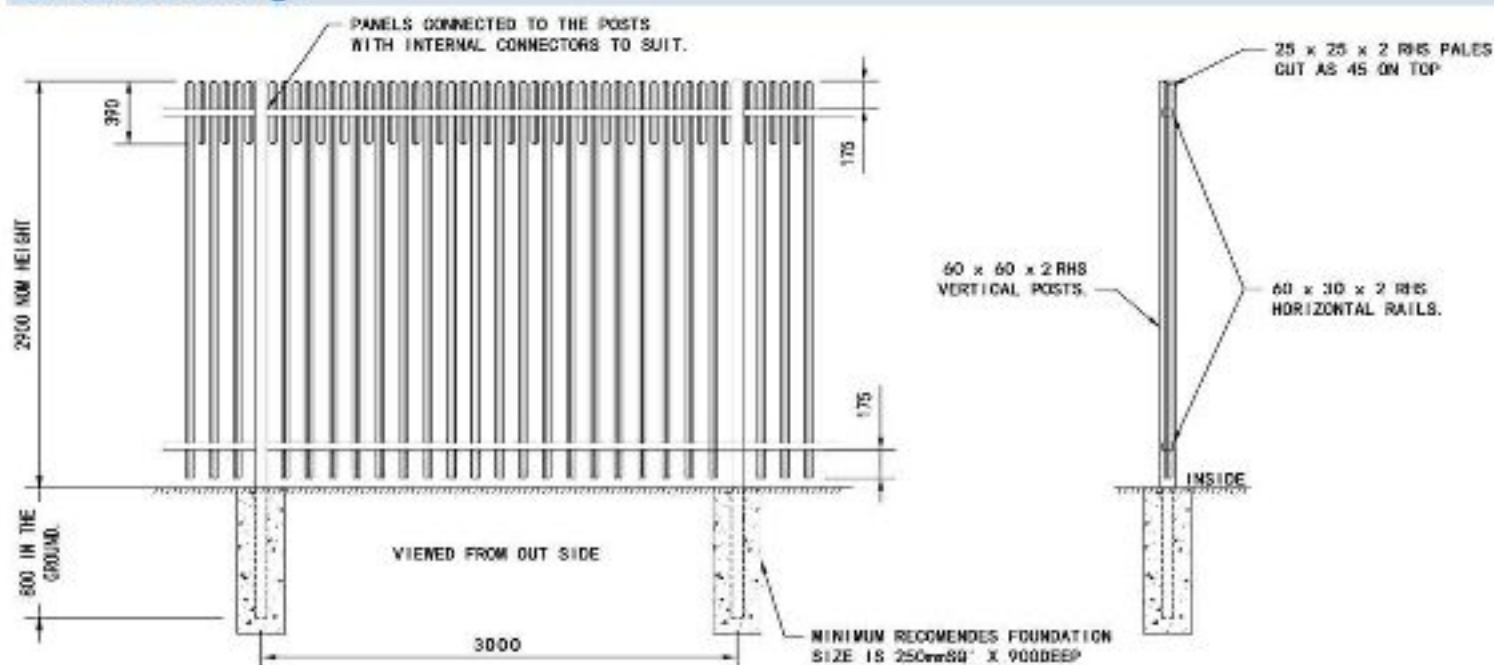
Finish options:

Products are hot deep Galvanized to BS EN 1461
Galvanized and Powder coated to BS EN 13438
Only powder coating to non standard
Marine coat Coating for application near salt water

Standard colours :

Black RAL 9005	Green RAL 6005
White RAL 9010	Blue BS 20-C-40
Blue RAL 5010	Brown RAL 8017
Yellow RAL 1018	Grey RAL 7012
Red RAL 3020	

Standard Drawing :



Standard Dimension :

Code	Height	Pales	Post Size	Post Center	Set in Concrete	Base Plated	Horizontal Rail
HDE 225	2.25m	25mm square	60x60x2x3050mm	3.0 m Center	250x250x800	350x300x430	60x30x2mm
HDE250	2.50m	32mm square	60x60x2x3300mm	3.0 m Center	250x250x800	350x300x430	60x30x2mm
HDE300	3.00m	32mm square	60x60x2x3800mm	3.0 m Center	300x250x800	350x300x610	60x30x2mm





High security square pale railing with anti climb spike

Hi-Defensive Barbed Top :

BENEFITS

Square Pale Security Railing, with added barbs

Defensive panels are up to 3.0 mt high and have two horizontal rails -hollow Section 60 x 30 x 2mm (3 rails on 3.0 m high). A 10 mm round point bar is added to each pale downward pointing to get more security. The welded pale-through-rail construction means there are no rivets to be forced or palings to be removed.

Complete system

- Anti-climb design.
- Various mounting options including on wall, inset and free standing Unique vandal-proof panel to post connectors
- Conforms to BS EN 1722-9.
- Custom designs available.
- Pale spacing conforms to Building Regulations for anti-trap.
- Panels can be raked or stepped to accommodate sloping ground.
- Seamless, concealed rail to post fixing.
- Welded pale-through-rail construction.
- Suitable for almost any application up to highly secure

Applications

- Parks
- Schools
- Residential
- Demarcation
- Low - Medium Risk
- High Risk



Panels :

Constructed up to 3000 mm high and have two horizontal RHS rail 60x30x2 mm and pales are 25x2 mm square pipes full pale with 10 mm round point bar added to each pale downward pointing to get more security.

Posts:

Construction as per the panel high by using RHS 63.5x63.5mm for high 2.25m or more , in option of set in concrete or base plate welded at bottom

Gates:

Matching gate are available in single or double leaf, swing, sliding and tracked in manual operation or automatic

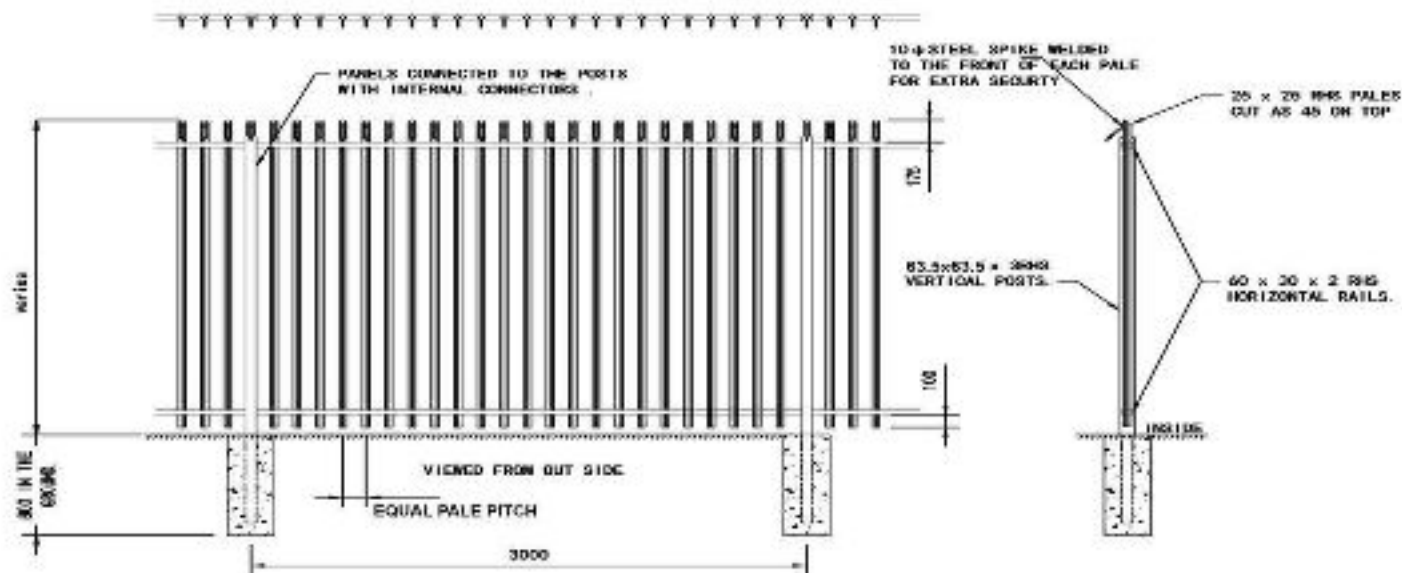
Finish options:

Products are hot deep Galvanized to BS EN 1461
Galvanized and Powder coated to BS EN 13438
Only powder coating to non standard
Marine coat Coating for application near salt water

Standard colours

Black RAL 9005 Green RAL 6005
White RAL 9010 Blue BS 20-C-40
Blue RAL 5010 Brown RAL 8017
Yellow RAL 1018 Grey RAL 7012
Red RAL 3020

Standard Drawing :



Standard Dimension :

Code	Height	Pales	Post Size	Post Center	Set in Concrete	Base Plated	Horizontal Rail
HDBT 225	2.25m	25mm round	63.5x63.5x2x3050mm	3.0m Center	250x250x800	350x300x430	60x30x2mm
HDBT250	2.50m	25mm round	63.5x63.5x2x3300mm	3.0m Center	250x250x800	350x300x430	60x30x2mm
HDBT 300	3.00m	32mm round	63.5x63.5x3x3800mm	3.0m Center	300x250x900	350x300x810	60x30x2mm





High security square pale railing with anti climb curved top

Hi-Defensive Xtreme

BENEFITS

Superior perimeter protection

Defensive Extreme security fencing a powerful visual representation of superior perimeter protection. The curved pales are designed to prevent intruders from climbing or scaling the fence, whichever side it is approached and ideal for higher security applications.

Complete system

- Anti - climb design
- Vandal proof
- Conforms to BS EN 1722-9
- Custom Designs available
- Vertical pale spacing conforms to building regulations for anti trap
- Unique vandal-proof panel to post connectors
- Various post options-over length , base plated or cranked to suit walls
- Post Tops can be customized for barbed wire/razor wire / fence spikes /electric fence or adapted to mount CCTV Camera
- Panels can be racked or stepped to accommodate sloping ground
- Can be designed around any terrain
- Suitable for almost any application from decorative and secure to highly secure

Applications

- Perimeters
- Company premises
- High Risk
- Utilities



Panels :

Constructed upto 3000mm high and have two horizontal RHS rail 60x30mm and pales are 25x2mm square section which are cranked 320mm from the top rail, with each one cut at 45 degrees to form a point.

Posts:

Construction as per the panel high by using RHS 63.5x63.5mm in option of set in concrete or base plate welded at bottom.

Gates:

Matching gate are available in single or double leaf, swing, sliding and tracked in manual operation or automatic.

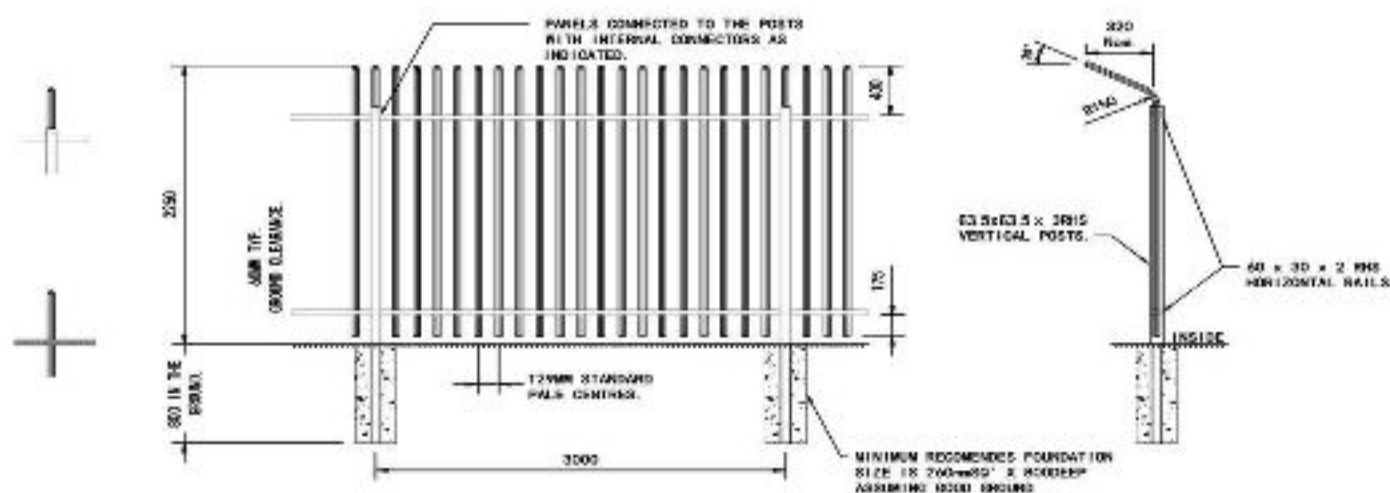
Finish options:

- Products are hot dip galvanized to BS EN 1461
- Galvanized and powder coated to BS EN 13438
- Only powder coating to non standard
- Marine coat coating for application near salt water.

Standard colours

Black RAL 9005. Blue BS 20-C-40
 Blue RAL 5010. Brown RAL 8017
 Green RAL 6005. Grey RAL 7012
 Red RAL 3020. White RAL 9010
 Yellow RAL 1018

Standard Drawing :



Standard Dimension :

Code	Height	Pales	Post Size	Post Center	Set in Concrete	Base Plated	Horizontal Rail
HDX225	2.25m	25mm square	63.5x63.5x2mm	3.0m. Center	250x250x800	300x300x530	60x30x2mm
HDX250	2.50m	25mm square	63.5x63.5x2mm	3.0m. Center	250x250x800	350x300x430	60x30x2mm
HDX275	2.75m	25mm square	63.5x63.5x2mm	3.0m. Center	300x250x900	350x300x610	60x30x2mm
HDX290	2.90m	25mm square	63.5x63.5x3mm	3.0m. Center	300x250x900	350x300x610	60x30x2mm
HDX300	3.00m	25mm square	63.5x63.5x3mm	3.0m. Center	300x250x900	350x300x610	60x30x2mm





Hi-Defensive Sentry

BENEFITS

Tubular Round bar security railing:

The Defensive Sentry security fence range of fencing and gates feature a welded semi pale-through-rail construction to combine style with performance and is equally appropriate for contemporary or more traditional settings. All Defensive Sentry and gate panels incorporate concealed fixings for strength and security. Pales are spaced to a maximum gap to conform to Building Regulations for anti-trap, making Sentry safe for applications where children may be present.

Complete System :

- Anti-climb design.
- Various mounting options including on wall, inset and free standing Unique vandal-proof panel to post connectors
- Conforms to BS EN 1722-9.
- Custom designs available.
- Double row of 25 mm high sharp-pointed steel double comb for additional security.
- Pale spacing conforms to Building Regulations for anti-trap.
- Panels can be raked or stepped to accommodate sloping ground.
- Seamless, concealed rail to post fixing.
- Welded pale-through-rail construction.
- Suitable for almost any application up to highly secure

Applications

- Parks
- Schools
- Residential
- Demarcation
- Low - Medium Risk
- High Risk



Panels :

Constructed up to 3000 mm high and have two horizontal RHS rail 60x30x2 mm and pales are 32x2 mm round pipes passed through the rails with equal spacing and have double row of sharp steel points 25 mm x 2mm thick on panels of more than 1500 mm height.

Posts:

Construction as per the panel high by using RHS 63.5x63.5mm for high 2.25m or more , in option of set in concrete or base plate welded at bottom

Gates:

Matching gate are available in single or double leaf, swing, sliding and tracked in manual operation or automatic.

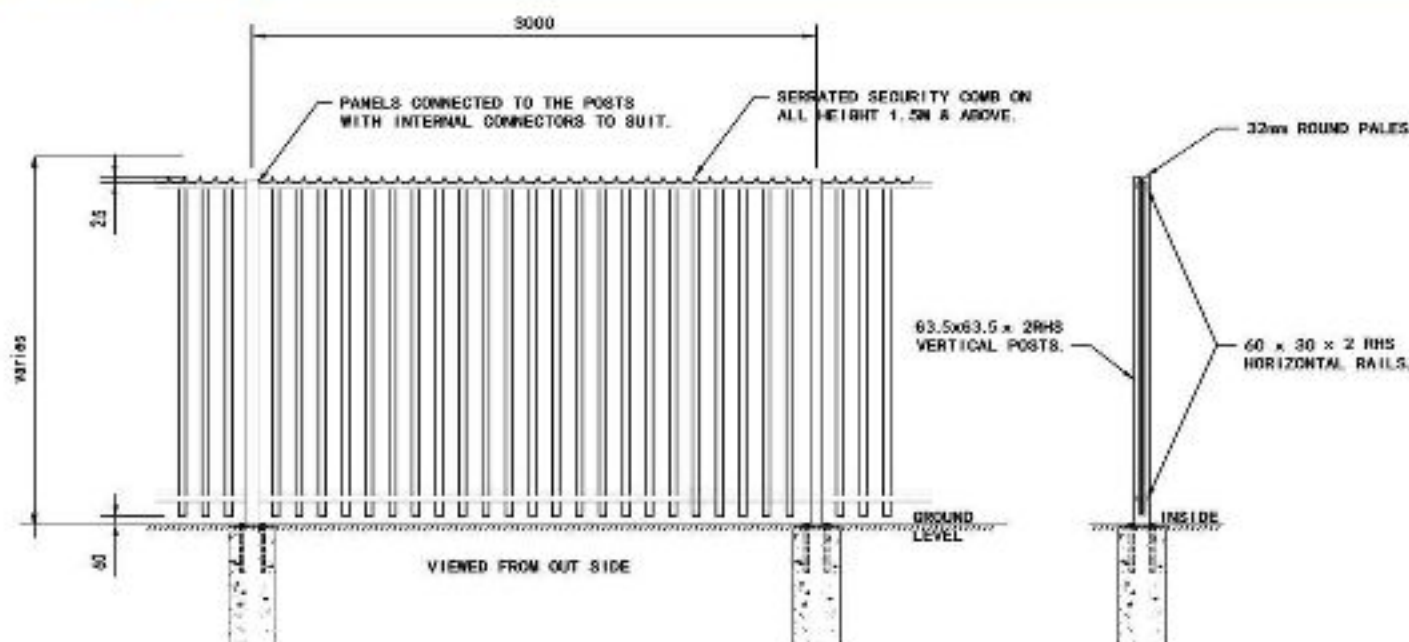
Finish options:

Products are hot deep Galvanized to BS EN 1461
Galvanized and Powder coated to BS EN 13438
Only powder coating to non standard
Marine coat Coating for application near salt water

Standard colours :

Black RAL 9005 Green RAL 6005
White RAL 9010 Blue BS 20-C-40
Blue RAL 5010 Brown RAL 8017
Yellow RAL 1018 Grey RAL 7012
Red RAL 3020

Standard Drawing :



Standard Dimension :

Code	Height	Pales	Post Size	Center Post	Sentry Comb	Set in Concrete	Base Plate	Horiz Rail
HDS150	1.50m	32mm Round	63.5x63.5x2	3.0mm center	25mm x 2mm	250x250x700	300x300x250mm	60x30x2mm
HDS180	1.80m	32mm Round	63.5x63.5x2	3.0mm center	25mm x 2mm	250x250x800	300x300x250mm	60x30x2mm
HDS200	2.00m	32mm Round	63.5x63.5x2	3.0mm center	25mm x 2mm	250x250x800	300x300x350mm	60x30x2mm
HDS250	2.50m	32mm Round	63.5x63.5x2	3.0mm center	25mm x 2mm	250x250x800	350x300x430mm	60x30x3mm
HDS290	2.90m	32mm Round	63.5x63.5x2	3.0mm center	25mm x 2mm	300x250x800	350x300x610mm	60x30x3mm
HDS300	3.00m	32mm Round	63.5x63.5x2	3.0mm center	25mm x 2mm	300x250x800	350x300x610mm	60x30x3mm





High security round pale railing with anti climb curved top

Hi-Tri Guard Fencing

BENEFITS

Tubular Rail Design with Anti - climb Features

Tri-Guard Fencing is an innovative range of fencing and gates featuring pales with curved tops, set in clusters of three, joined by feature steel discs to create a decorative appearance with anti-climb and anti-scale Panels are up to 3.0 mt high and have Three horizontal rails -hollow Section 60x30x 2mm). Pales from hollow pipe of 19 mm , curved from top downward pointing & cut at 45 degrees to make point for get more security.

Complete System

- Pales cut at 45degree and curved outwards for anti-climb
- Various mounting options including on wall, inset and free standing Unique vandal-proof panel to post connectors
- Conforms to BS EN 1722-9.
- Custom designs available.
- Pale spacing conforms to Building Regulations for anti-trap.
- Panels can be raked or stepped to accommodate sloping ground.
- Seamless, concealed rail to post fixing.
- Posts can be adapted to mount CCTV cameras, lighting or physical security devices
- A complete fencing and access system
- Welded pale-through-rail construction.
- Suitable for almost any application from decorative and secure to highly secure

Applications

- Parks
- Schools
- Public Building
- Medium Risk
- High Risk



Panels :

Constructed up to 2500 mm high and have three horizontal RHS rail 60x30x2 mm and pales are 19 mm hollow Round ,curved top and cut at 45 degree for each pale downward pointing to get more security.

Posts:

Construction as per the panel high by using RHS 63.5 x 63.5 mm, in option of set in concrete or base plate welded at bottom

Gates:

Matching Tri Guard gates are available in single or double leaf, swing, sliding and tracked in manual operation or automatic.

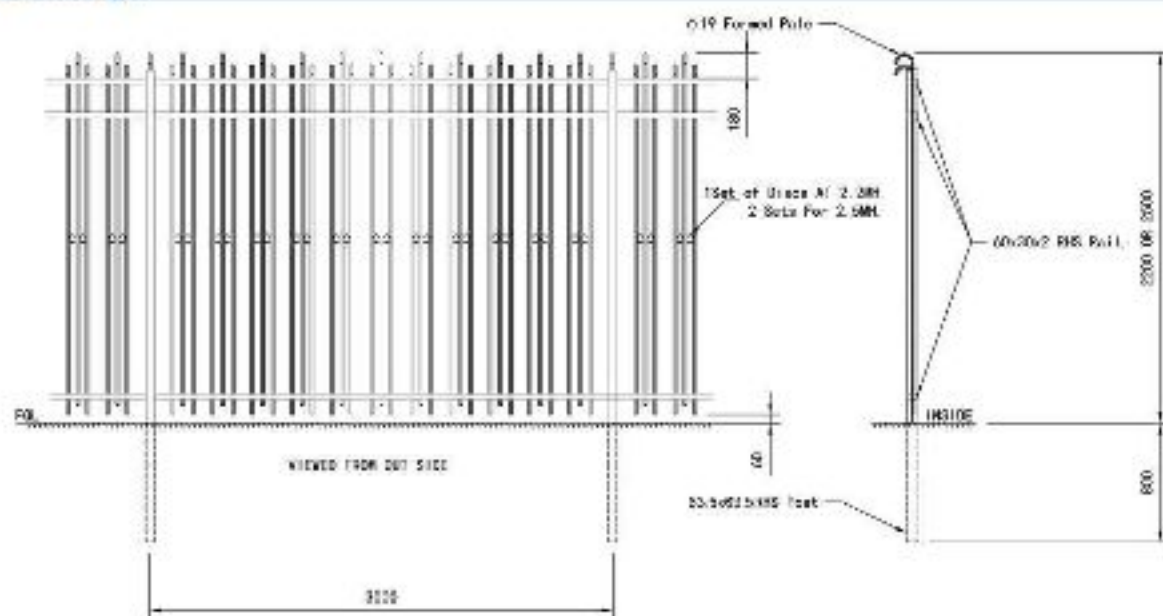
Finish options:

- Products are hot deep Galvanized to BS EN 1461
- Galvanized and Powder coated to BS EN 13438
- Only powder coating to non standard
- Marine coat Coating for application near salt water

Standard colours

- | | |
|-----------------|-----------------|
| Black RAL 9005 | Green RAL 6005 |
| White RAL 9010 | Blue BS 20-C-40 |
| Blue RAL 5010 | Brown RAL 8017 |
| Yellow RAL 1018 | Grey RAL 7012 |
| Red RAL 3020 | |

Standard Drawing :



Standard Dimension :

Code	Height	Pales	Post Size	Post Center	Set in Concrete	Base Plated	Horizontal Rail
HTG 225	2.25m	19mm Round	63.5x63.5x2x3050	3.00m Center	250x250x800	350x300x430	60x30x2mm
HTG 250	2.50m	19mm Round	63.5x63.5x2x3300	3.00m Center	250x250x800	350x300x430	60x30x2mm





Hi Bow Top Fencing

BENEFITS

Curved top steel fence design with hollow bar rails

Hi Bow Top Fencing is Perfect for a wide variety of applications, Bow Top fencing also known as Hairpin fencing or hoop top fencing, provides a versatile and durable demarcation and access Bow top fencing has a pale through rail construction with no visible joins is immensely strong and because it's tubular and lighter than traditional solid steel, requires fewer support posts making installation faster and less costly. we manufacture and supply quality Bow Top fencing and gates which conform to standard Building Regulations.

Complete System

- Inherently safe, conforms to Building Regulations
- Strong welded Bow Top pales through rail tubular construction for anti-climb and decoration.
- Various mounting options including post Bow Top shape and Unique vandal-proof panel to post connectors
- Conforms to BS EN 1722-9.
- Custom designs available.
- Pale spacing conforms to Building Regulations for anti-trap.
- Panels can be raked or stepped to accommodate sloping ground.
- Seamless, concealed rail to post fixing.
- A complete fencing and access system.
- Suitable for almost any application from decorative and secure to highly secure
- Gate posts are 63.5 x 63.5 x 3 mm square hollow section
- Single leaf gates are standard Right Hand Hanging, Open Inwards.
- Self closing gates are Left Hand Hanging, Open outwards
- Non self closing gates come complete with hinges, which allow the gate to swing through an angle of 180 degrees,

Applications

- Parks
- Schools
- Public Building
- Medium Risk
- High Risk



Panels :

Constructed up to 1800 mm high and have two horizontal RHS rail 60x30x2 mm and pales are 19 mm hollow Round ,curved top and cut at 45 degree for each pale downward pointing to get more security.

Posts:

Construction as per the panel high by using round 60x3 mm, in option of set in concrete or base plate welded at bottom

Gates:

Matching Bow Top gates are available in single or double leaf, swing, sliding and tracked in manual operation or automatic.

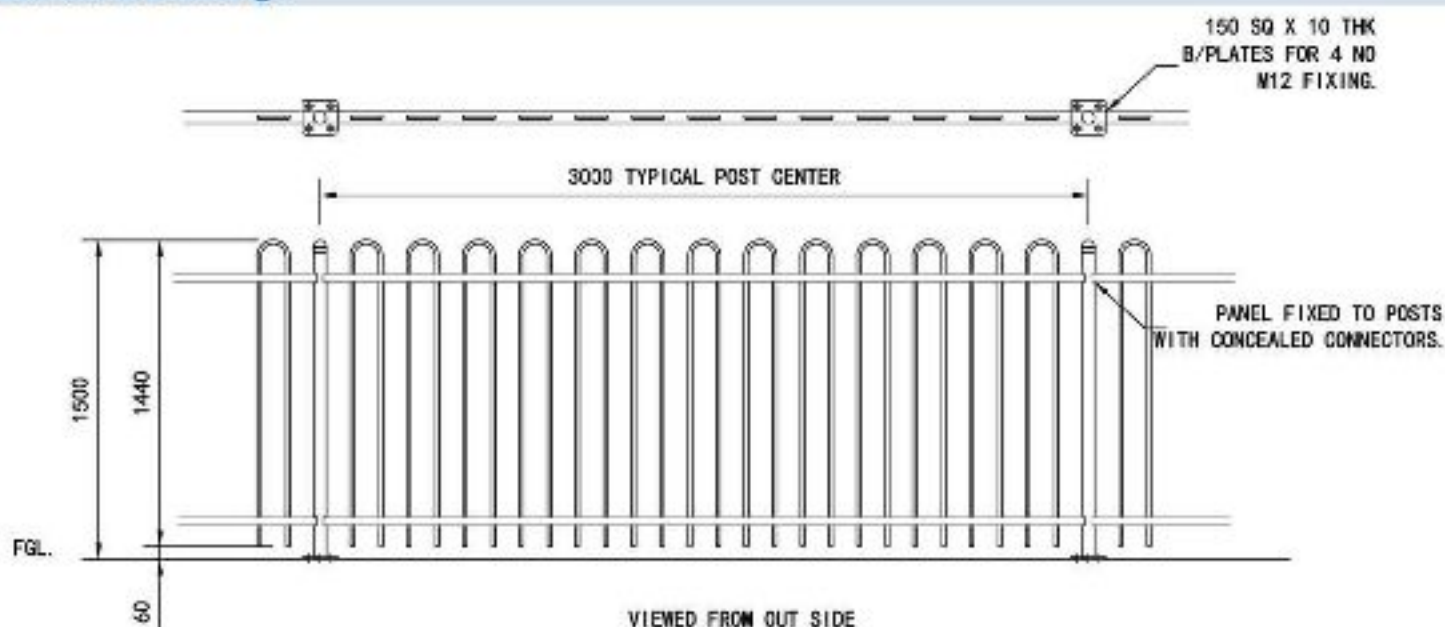
Finish options:

- Products are hot deep Galvanized to BS EN 1461
- Galvanized and Powder coated to BS EN 13438
- Only powder coating to non standard
- Marine coat Coating for application near salt water

Standard colours

- | | |
|-----------------|-----------------|
| Black RAL 9005 | Green RAL 6005 |
| White RAL 9010 | Blue BS 20-C-40 |
| Blue RAL 5010 | Brown RAL 8017 |
| Yellow RAL 1018 | Grey RAL 7012 |
| Red RAL 3020 | |

Standard Drawing :



Standard Dimension :

Code	Height	Pales	Post Size	Post Center	Set in Concrete	Base Plated	Horizontal Rail
HTB100	1.00m	19mm Round	60x3mm round	3.00m Center	250x250x800	350x300x150	60x30x2mm
HTB120	1.20m	19mm Round	60x3mm round	3.00m Center	250x250x700	350x300x230	60x30x2mm
HTB150	1.50m	19mm Round	60x3mm round	3.00m Center	250x250x800	350x300x250	60x30x2mm
HTB180	1.80m	19mm Round	60x3mm round	3.00m Center	250x250x800	350x300x250	60x30x2mm

