



A-1 FENCE

Protecting Assets | Protecting Borders | Protecting People



HIGH SECURITY SOLUTIONS







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About A-1 Fence

Integrated Perimeter Security Solutions Provider

A-1 Fence was established in 1998. Over the years it has expanded globally into 4 countries and 6 manufacturing facilities spread between the United Arab Emirates, Oman & India and 8 sales offices across the globe. We have transformed from a fence manufacturer to an Integrated Perimeter Security Solutions provider. We do this by bringing out cutting edge intrusion detection systems that complement our physical high security fences and barriers.

We at A-1, believe in understanding our Customer's needs and propose the right-fit solution by innovation and value-engineering. Through our journey of over two decades, we have worked closely with various Government Ministries, Municipalities, Road Transport Authorities, National Oil Companies, Oil Drilling Companies, Oil Refineries, Armed Forces, Military, Dept. of Public Works, Airports, Seaports, EPC Contractors, Real Estate Developers, Sport Stadiums, Architects and Consultants.

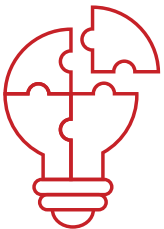


Why choose us?



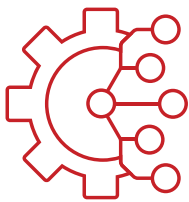
Experience

More than 20 years of experience in the perimeter security domain.



Solutions Design

We help in designing a complete security solutions by understanding the security threats at site and selecting suitable combination of products and integrating all of them.



Manufacturing & Coating Expertise

We have manufacturing plants in UAE, Oman, Saudi Arabia and 4 manufacturing facilities in India. We boast a total manufacturing capacity of 60,000 metric tons per annum and our state of the art coating setup is capable of producing superior quality coatings like PPC, PVC & TPC.



Installation Support

We have a dedicated team for complete end-to-end installation & AMC support for maintaining the various systems by a strong network of partners and inhouse supervisors, trainers and support team.

Our Vision

10X growth through **entrepreneurial spirit**,
global connect and **passion for excellence**.

Our offerings

Perimeter Security Products

A-1 Fence is an Integrated Perimeter Security Solutions Provider. With our products & solutions, we Protect Assets, Borders and People all over the world. Established in the year 1998, A-1 has grown to become an end to end solution provider for turnkey projects extending our services right from site survey to installation and commissioning.



A-1 AKAT Pro 6

This fence is installed along the perimeter and provides protection against intruders equipped with aggressive tools by delaying them for a guaranteed period of time.



358 Anti-Climb Weldmesh

A strong welded mesh system having anti-climb & anti-cut features along with high visibility making it ideal for medium and high perimeter security.

20 YEARS

OF PERIMETER SECURITY EXCELLENCE



A-1 Alcazar AVB

This barrier is installed along the perimeter and provides protection against incoming hostile vehicles by stopping them within 1 meter of the barrier line.



A-1 Alcazar CBS

This barrier is installed adjoining key roads allowing free pedestrian movement and provides protection from incoming hostile vehicles by stopping them within 1 meter of the barrier line.



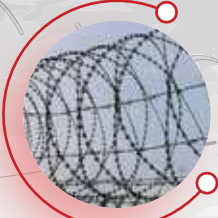
Chainlink Fence

A time-tested fencing solution that sits well with a wide array of applications from farms to entry level security sites.



Rapid Deployment Barrier

Strong fortification structures made from welded mesh panels lined by geotextile fabric and filled with sand, debris or stones to provide quick and effective protection.



Concertina Coil



A-1 Alcazar CBS Static bollards



358 Anti-climb Weldmesh



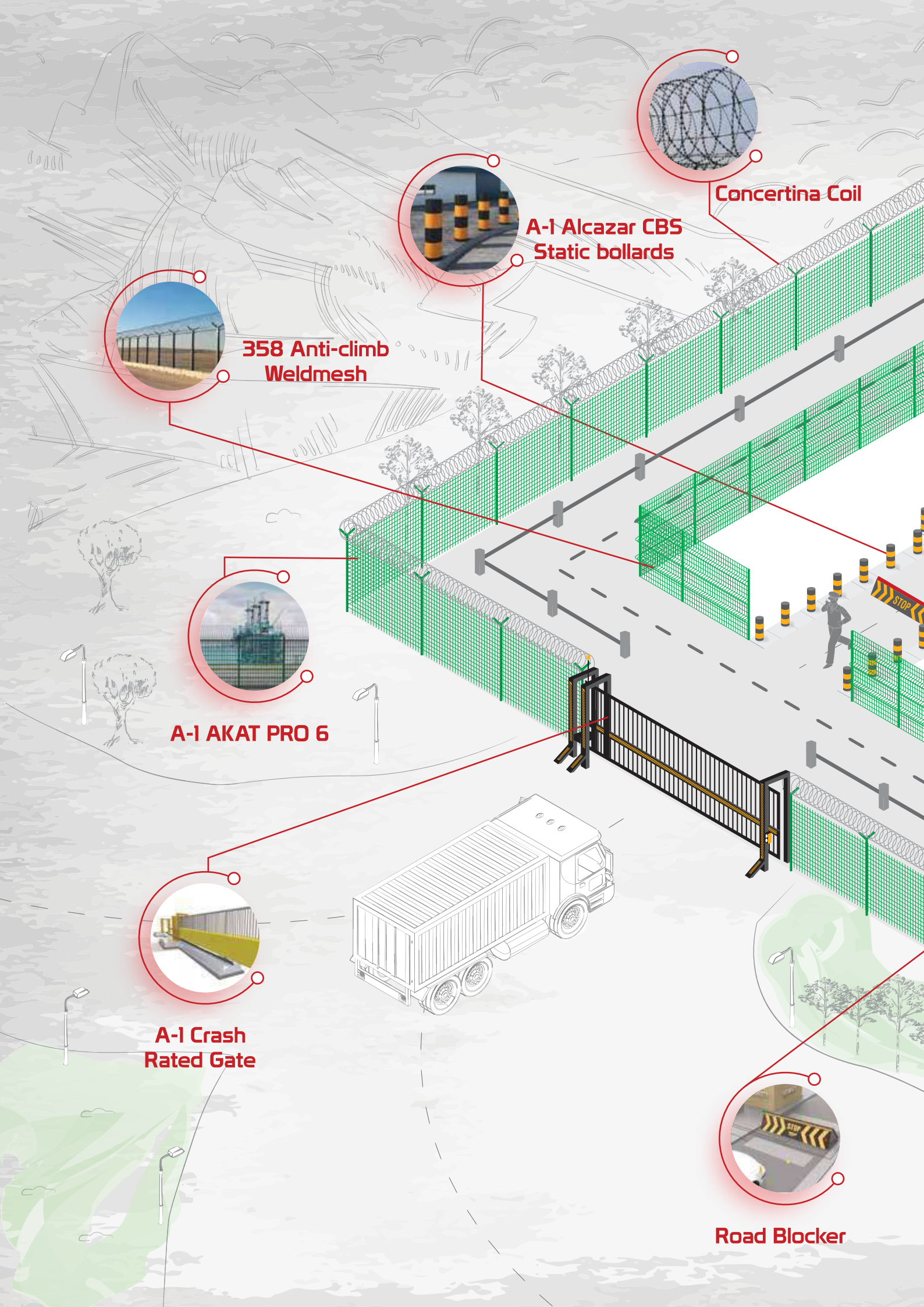
A-1 AKAT PRO 6



A-1 Crash Rated Gate



Road Blocker

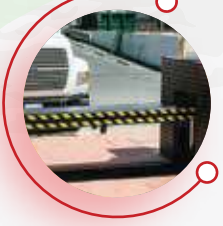




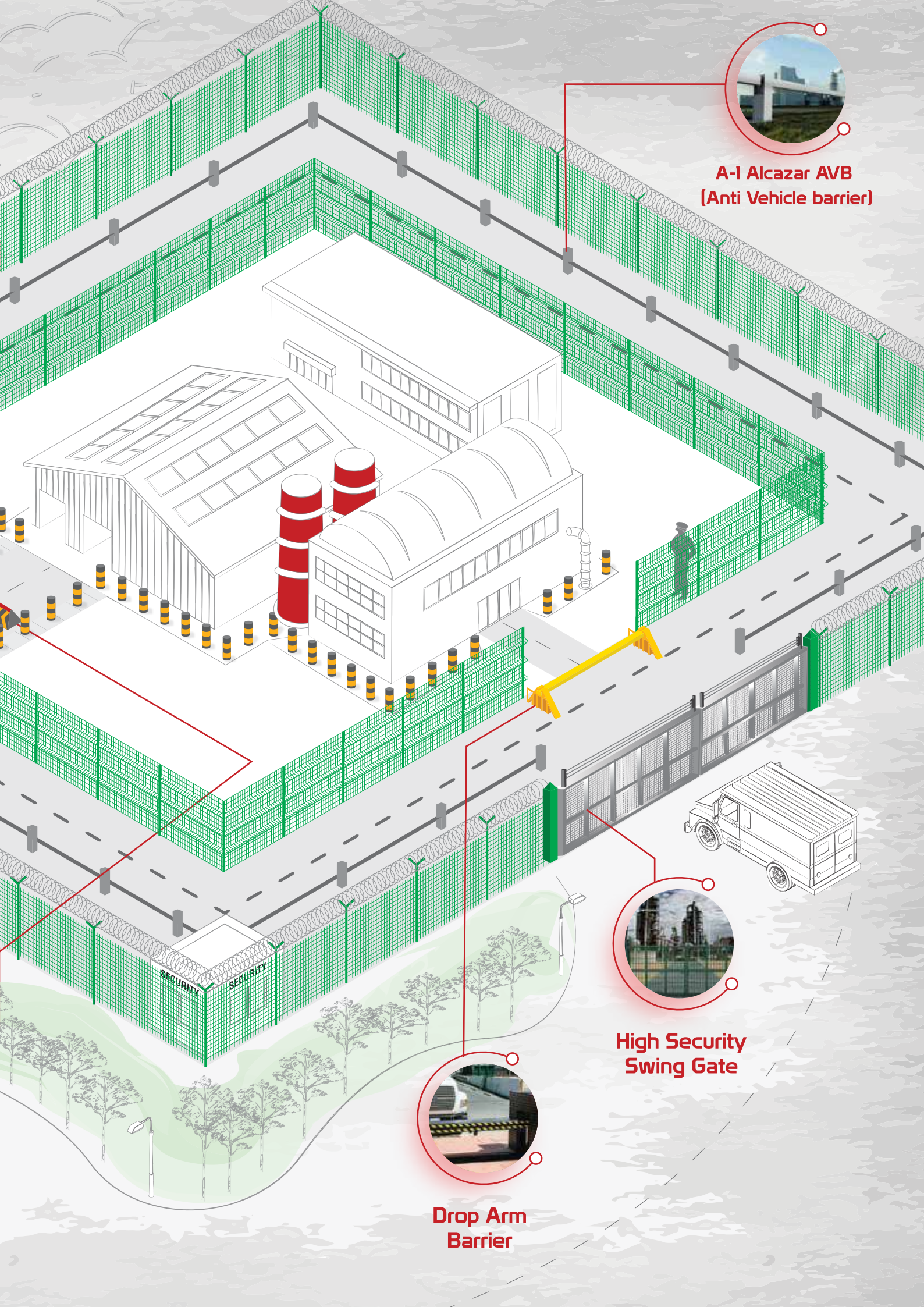
**A-I Alcazar AVB
(Anti Vehicle barrier)**



**High Security
Swing Gate**



**Drop Arm
Barrier**



Delay Rated Fences



A-1 AKAT 300-60 Alpha

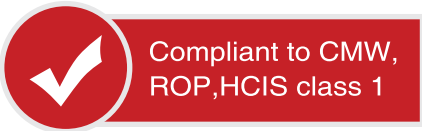
A-1 AKAT PRO 6

Delay Rated Fences are forced entry resistance rated fences consisting of reinforced rigid panel which provides uncompromising strength & protection against intrusion with aggressive cutting tools. These fences block the intrusion for a certain guaranteed period of time. These fences are made as per ASTM F2781-15 Standards & are CICPA (Critical Infrastructure Coast Protection Authority) and CMW compliant.

What are Delay Rated Fences?

Delay rated fences are strong high security fences that block the intrusion for a guaranteed period of time known as the “Delay time” or “Forced entry resistance time”. These fences are ASTM F2781-15 compliant. Forced Intrusion Tests are carried out using different types of manual, battery or gasoline operated cutting tools:

Variants	Post (mm)	Height (m)	Width (mm)	Coating	Delay Time (mins)
A-1 AKAT 300-60 Alpha	RHS - 120x60	2.5 - 6	2495	TPC	Minimum 10 minutes
A-1 AKAT Pro 6			2438.4	TPC	Minimum 5.9 minutes



/ Features



Delay Time

Reinforced design provides delay times ranging from 5 to 25 mins with aggressive cutting tools and are certified as per ASTM / LPCB / BS Standards.



Long Life

These fences undergo Salt Spray, Rapid Aging and Adhesion Failure Tests for their coatings to guarantee high longevity.



Visibility Index

Optimum visibility index for seamless and uninterrupted camera surveillance and ground patrol observation.



High Deterrence

These fences can be further fortified with additional toppings of Concertina coils and Wall spikes



Installation Support

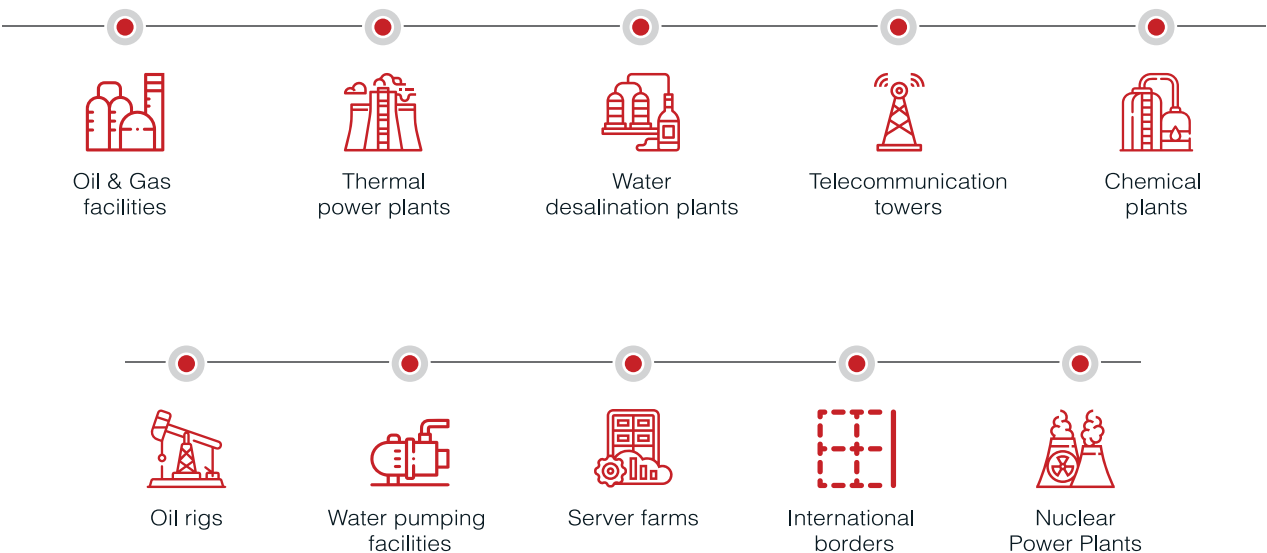
We provide experts for complete end-to-end installation & AMC support leading to a hassle free post sales experience.



Customization

Our team is capable of customizing the fence system based on the threat levels, security requirements and environment conditions.

/ Applications



A-1 Alcazar AVB



A-1 Alcazar Anti vehicle Barrier (AVB) is installed along the perimeter and provides protection against incoming hostile vehicles for areas with national & strategic importance, critical infrastructures & utilities.

What is ASTM F2656-20?

ASTM F2656-20 is a structured procedure to establish a penetration rating for vehicle perimeter barriers subjected to a vehicle impact. Knowing the penetration rating helps to select an appropriate barrier for site-specific conditions around a facility. This test method provides a range of vehicle impact conditions, designations, and penetration performance levels.

Rating	Vehicle Weight	Vehicle Speed	Penetration Rating
M30	15000 lbs	30 mph	**P1, P2, P3
M40	15000 lbs	40 mph	**P1, P2, P3
M50	15000 lbs	50 mph	**P1, P2, P3

Penetration is measured by three categories:

P1 = ≤1m (3.3 ft.); P2 = 1.01 – 7 m (3.31 to 23.0 ft.); P3 = 7.01 – 30m (23.1ft. to 98.4 ft.)



Features



High Strength

Capable of stopping an incoming hostile vehicle weighing upto 15000 lbs charging at a speed of 50 mph within 1 meter.



Long Beam Span

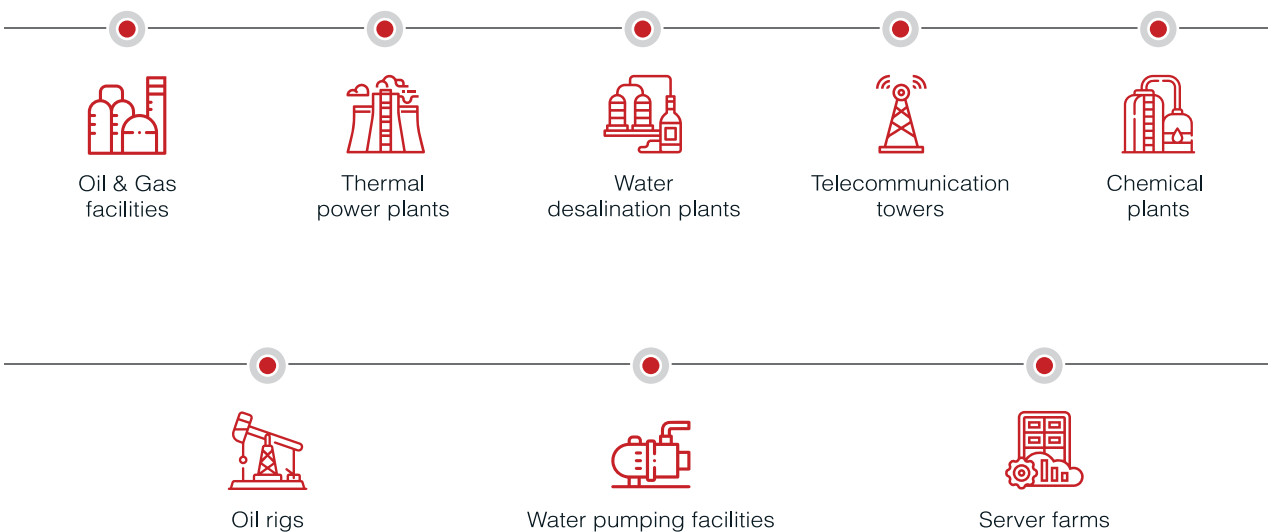
Beam span of more than 10 meters (longest in the industry), which means less number of posts and results in faster installation and less cost.



Long Life

The barrier has a long life as it is hot dip galvanized after fabrication.

Applications



A-1 Alcazar CBS



A-1 Alcazar Crash Bollard Shallow Foundation consists of a cylindrical steel post anchored to concrete which provides superior protection for spaces, buildings and people from hostile vehicle ramming attacks.

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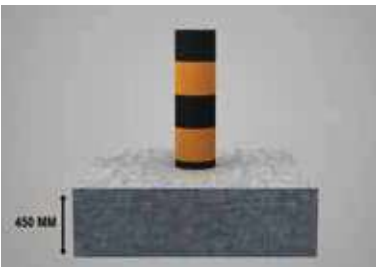
P1= ≤ 1 m (3.3 ft.); P2 = 1.01 – 7 m (3.31 to 23.0 ft.); P3 = 7.01 – 30m (23.1ft. to 98.4 ft.)

Features



Tough & Resilient

Capable of stopping an incoming hostile vehicle weighing upto 15000 lbs charging at a speed of 50 mph within 1 meter.



Easy & Safe Installation

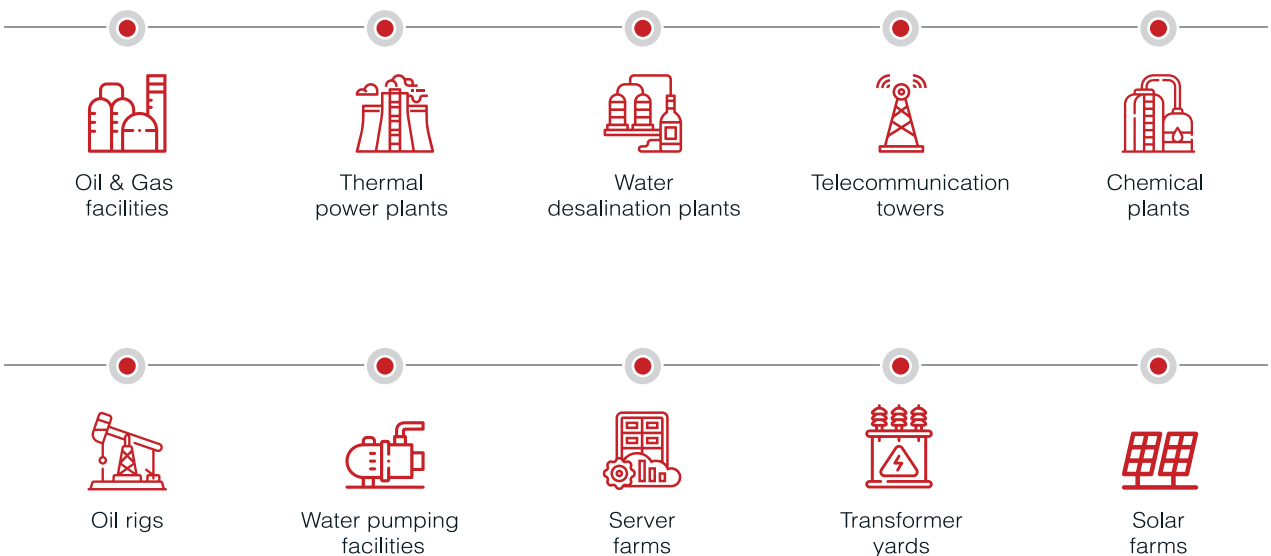
A shallow foundation depth of 450 mm reduces time, effort, complexity and makes sure underground pipes and wires are unharmed.



Customisable

Offers multiple colour & personalized branding options for promotional purposes.

Applications



358 Anti-Climb Weldmesh



358 Anti-Climb Weldmesh is a strong & modular weld-mesh fencing system with a unique close lattice geometry that makes it impossible for any intruder to grip the fence and climb over it thus delivering superior security for your critical areas & infrastructures.

/ Fence structures

Mesh Orientation

We offer two different types of mesh orientation options based on the visibility required. Both the options provide anti-climb & anti-cut protection.

Horizontal Mesh: This type of fence system uses a mesh size of 76.2 X 12.7 mm which imparts more visibility through the fence.

Vertical Mesh: This type of fence panel has a mesh size 15 x 75 mm and is used when superior anti-climb feature is required.



Compliant with CICPA,
ADNOC & CMW, LPCB
LPS 1175 SR2, ROP

Fence Toppings

There are multiple topping options available to choose from to increase the overall protection of the weldmesh fencing system.

Buried Panel: An underground weldmesh panel that helps in preventing any intrusion attempts against digging.

Out Trigger Panel: A Trigger panel is a strong weldmesh panel with V bends and is installed on top of the fence for increased stability to concertina coils and also acts as an additional layer of weldmesh protection against climbing intrusions.

Concertina Coils: These are cylindrical coils with razor sharp blades which are installed on top of the fence and act as strong barrier against intrusions that involve climbing. These coils are available in multiple blade profiles depending on the degree of protection required.

Features



Anti Climb

The mesh size of 76.2 X 12.7 mm makes it difficult to grip thus prohibiting any chances of climbing over the fence.



Anti Cut

The dense mesh inhibits ingress of commonly available cutting tools like pliers which makes the fence difficult to cut.



Modular Installation

Modular component design for on-site assembly and installation without painting or welding.



Choice of Colour

Multiple colour options to mix and match panels and posts for innovative patterns.



Long Life

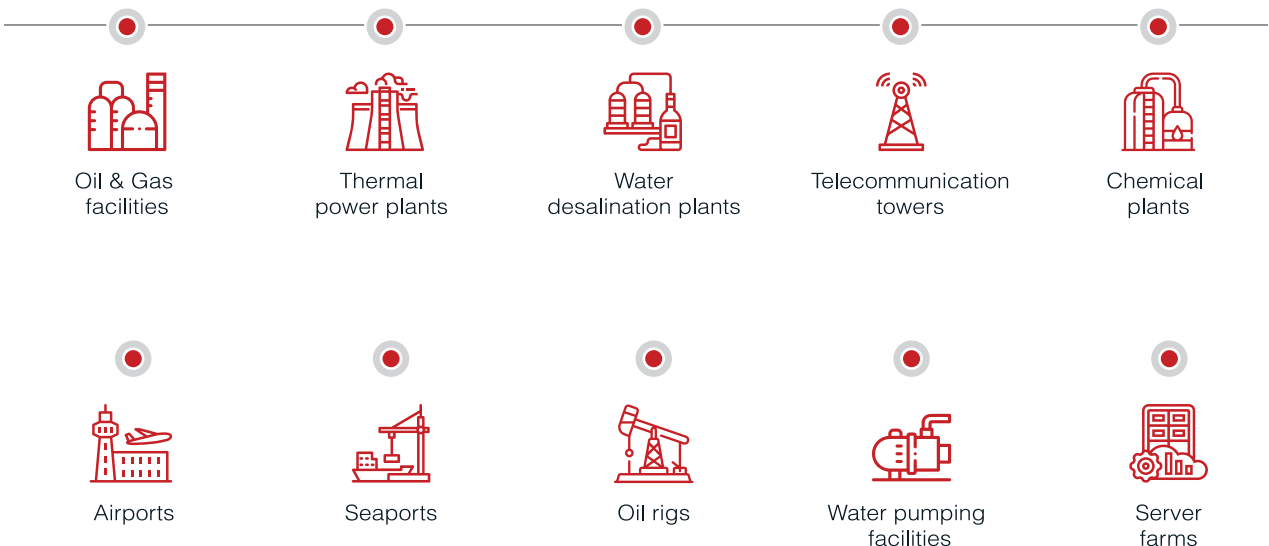
Superior powder coating with UV resistant colours prevents corrosion, colour fading & peeling thus offering longlife & eliminating the need of repainting.



High Quality

Mass-produced in the factory on automated machines which provides uniform and long-lasting welds offering dimensional fidelity for field assembly.

Applications

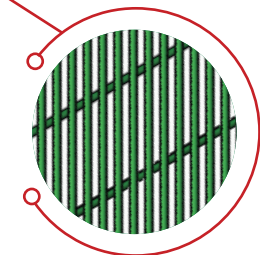
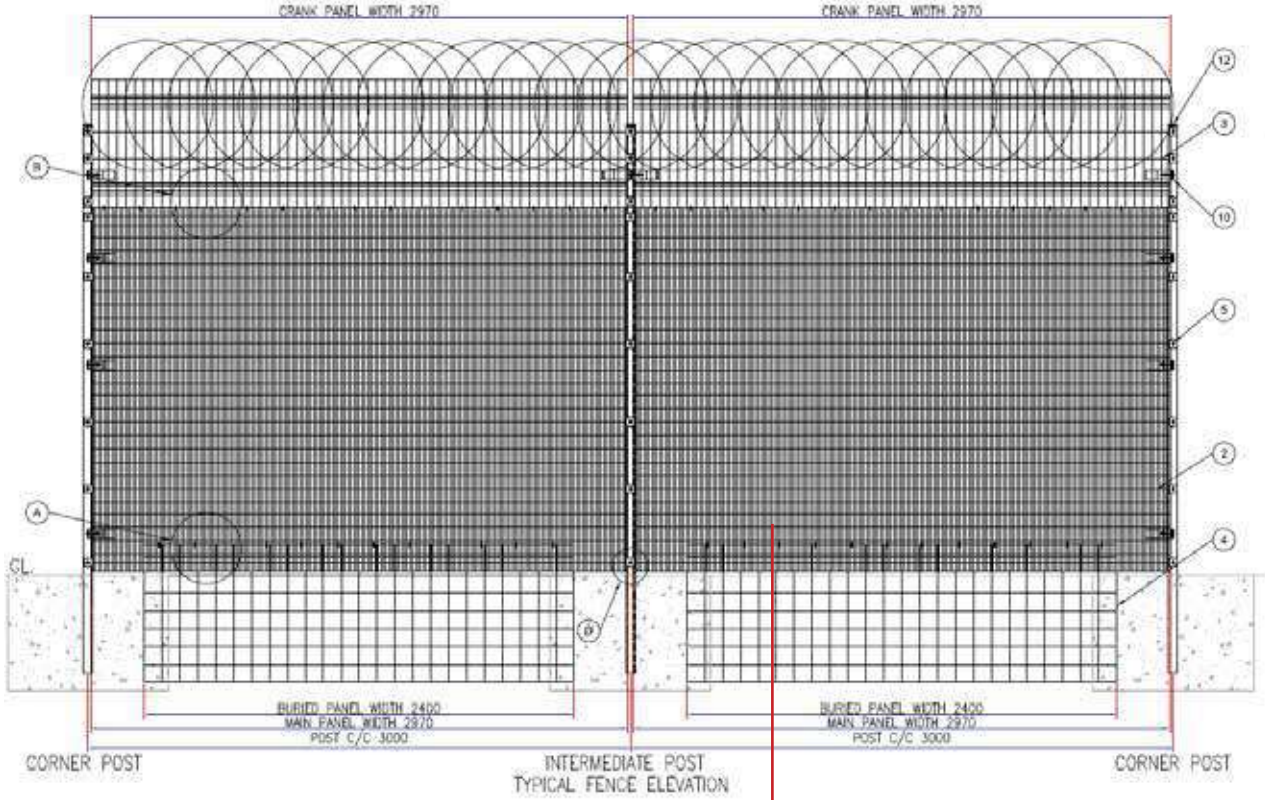


Variants

Vertical Mesh Fence System

This type of weldmesh fence comes with a main panel with a small mesh size of 15 x 75 mm, an underground panel of height 768 mm with a mesh size of 100 x 100 mm & a single layer concertina coils installed on top thus providing a robust solution for high perimeter security.

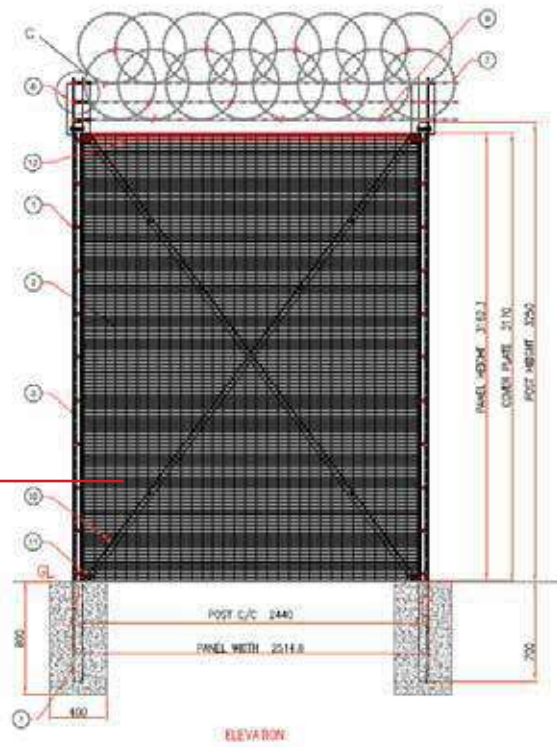
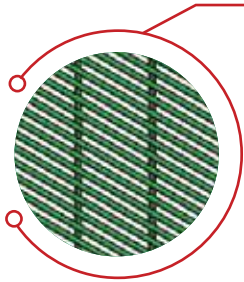
- ▶ Compliant to CICPA (Critical Infrastructure Coast Protection Authority) and CMW



Horizontal Mesh Fence System

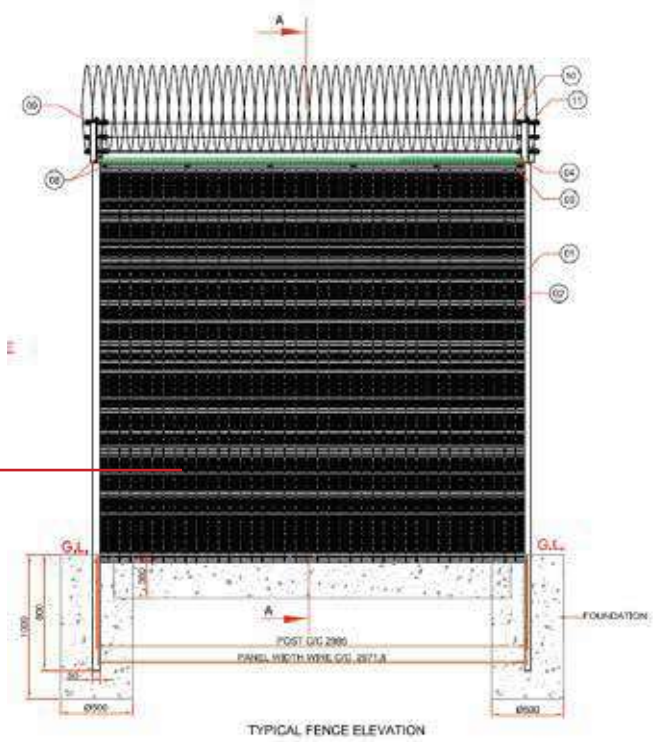
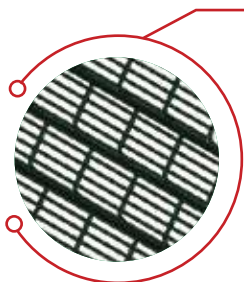
This type of weldmesh fence comes with our most popular weldmesh panel with mesh size of 76.2 X 12.7 mm. The fence is provided with diagonal support for better stability & 3 layers of concertina coils on top of the fence adds to the overall protection.

- ▶ Compliant to CICPA (Critical Infrastructure Coast Protection Authority) and CMW



Oscillomesh Fence

A new weldmesh fence variant that uses the same trusted mesh size of 76.2 X 12.7 mm of the main panel but in a wave pattern provides higher strength & rigidity and also adds a modern look to the perimeter. It also comes with a single layer concertina coil setup on top for added protection.



Chainlink Fence



Chainlink Fence is a single twist rhombus shaped conventional form of fence which is installed along the perimeter and provides protection against trespassers, wanderers & intruders for agricultural, residential, commercial & industrial areas.



Compliant with CICPA,
CMW and PDO.

/ Features



Hassle-Free Installation

The system can be assembled using modular clamps, nuts, bolts and other accessories promoting hassle free & quick installation.



High Visibility

Unique mesh size which provides good visibility to get a clear view of the outside of the premises and be aware of any intrusions.



Easy Transportation

Chainlink fabrics can be packed into compact rolls which enables easy transportation & handling.



Long Life

Mesh is heavy galvanised & PVC coated & poles are powder coated which gives them a long life.



Fence Add-On

The perimeter security can be reinforced by adding accessories like a razor blade coil that is installed on top of the fence to provide an additional layer of security against climbing.



Customization Option

Multiple height & mesh type options available based on security, site and design requirements of the infrastructure.

/ Applications



Transformer yards



Solar farms



Supply warehouses

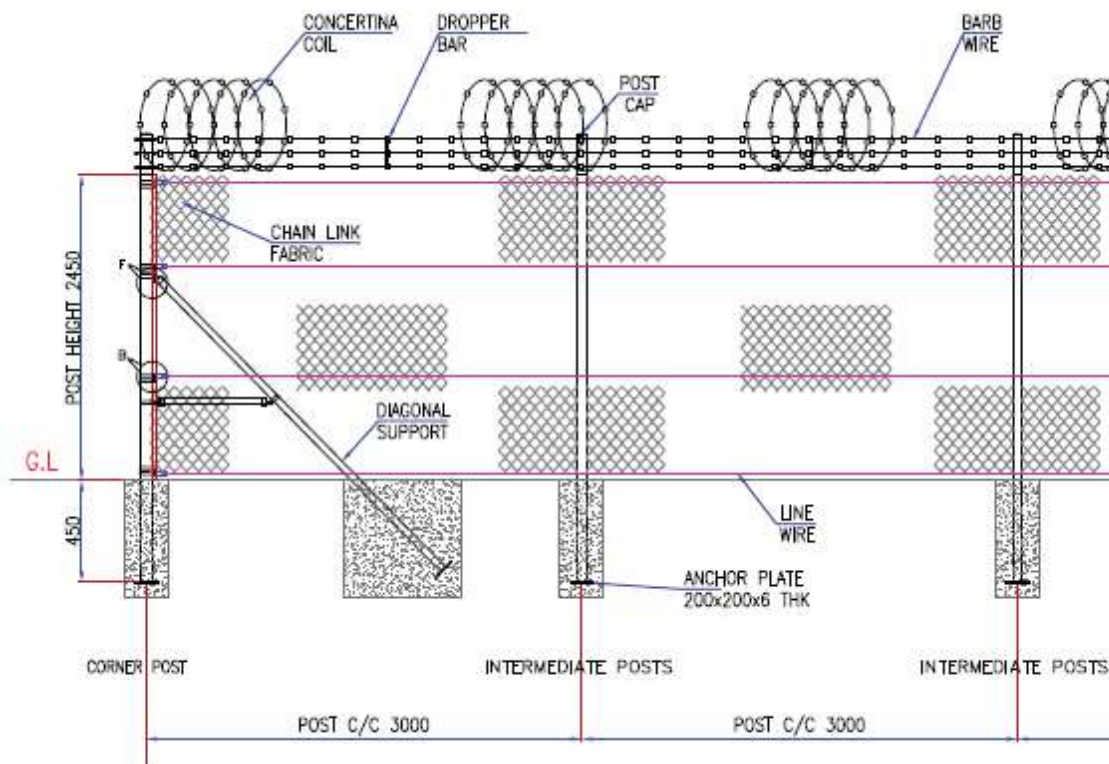


Office support facilities

Variants

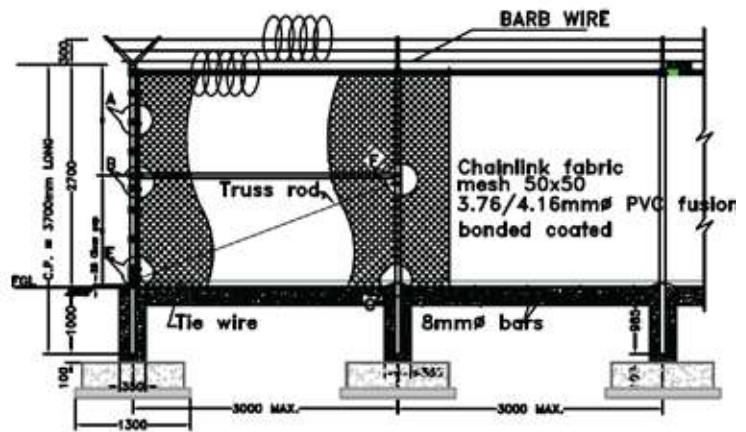
A-1 Type 1

- ▶ Mesh Size: 50 X 50 mm
- ▶ Fabric Height: 2400 mm
- ▶ Support Rod Length: 3000 mm
- ▶ Support Angle: Diagonal
- ▶ Concertina Coil: 550 mm diameter
- ▶ Recommended for CMW projects



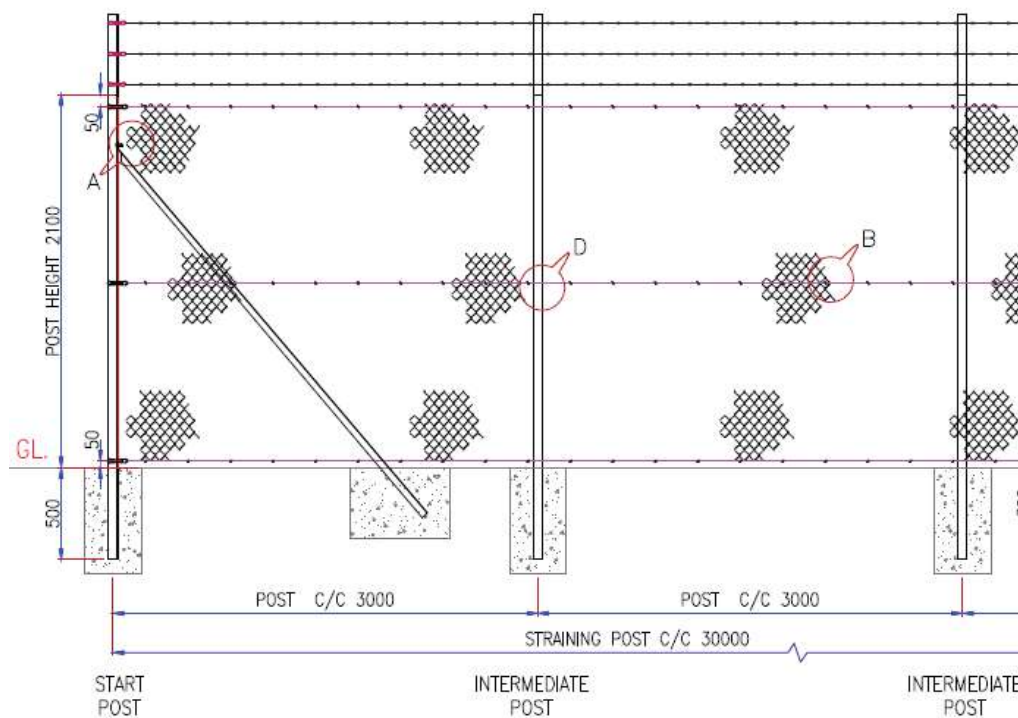
A-1 Type 2

- ▶ Mesh Size: 50 X 50 mm
- ▶ Fabric Height: 2700 mm
- ▶ Support Rod Length: 3000 mm
- ▶ Support Angle: Perpendicular
- ▶ Diagonal Stay Length: 3000 mm
- ▶ Concertina Coil: 600 mm diameter
- ▶ Recommended for HCIS CAT III & IV projects



A-1 Type 3

- ▶ Mesh Size : 50 X 50 mm
- ▶ Fabric Height : 2700 mm
- ▶ Support Rod Length : 3000 mm
- ▶ Support Angle : Perpendicular
- ▶ Diagonal Stay Length : 3000 mm
- ▶ Concertina Coil : 600 mm diameter
- ▶ Recommended for HCIS CAT III & IV projects



Rapid Deployment Barrier



Rapid Deployment Barrier modules are strong fortification structures made out of welded mesh panels lined by geotextile fabric. Sand /Debris/Stones etc are used as filler material to provide strength.



/ Features



Simple to Install

RDB boxes are transported in collapsible stacks and can be erected into boxes with ease thus making them ready for action in no time.



Rigid & Stable

The wires are welded together by a resistance welding process providing high weld strength which keeps the panel rigid and stable. The V Bends and additional wires welded at close distance at the bottom provide stability against bending due to sand or stones infill thereby retaining the shape of the RDB.



Long Life

Powder coated panels provide corrosion resistance under harsh environmental conditions ensuring the product longevity.

/ Specifications

Panel Height (mm)	Panel Width (mm)	Mesh Size (mm)	Wire Diameter (mm)
750	750	75x75	4

High Security Gates



Our range of entrance control solutions which includes swing gate, sliding gates, drop arm barriers and automation products are designed to provide an effortless, automated and secure access to your property.

Our offerings

Swing Gate

These gates are easy to operate, customisable and are ideal for clear openings less than 6 meters as they occupy comparatively lesser space.

Variants Available:

Single Leaf: These gates operate using a single leaf design. Popular for pedestrian entry.

Double Leaf: These gates use a double leaf design for operation. Popularly using for industrial areas with large large opening.

Sliding Gate

These gates are suitable for perimeters with wider openings and heavy duty operations making them an ideal choice for industrial, commercial and a few residential applications.

Variants Available:

Track Sliding Gate: They rightly fit in industrial areas where there is a wide entry (upto 30 meters). These gates can be automated for ease of operation and also be customized with various infill options for an aesthetic look.

Cantilever Gate: They eliminate the use of tracks & hence are also called hanging gates or trackless gates. They operate on concealed mechanical bearings instead of wheels which reduces the maintenance cost and their trackless operation also lowers the friction inturn reducing the gate pull force.

/ Key projects

Etihad Rail Package 2B



**Mohammed Bin Rashid Al Maktoum
Solar Park Phase-IV**



UAE-Oman Border Project



Oman – Yemen Border Project



Duqm Refinery



**EIC Feeder Line SWCC,
Khobar**





- CUSTOMER BASE
- MANUFACTURING | SALES OFFICE

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We are here to assist you!

We would like to hear about your problems/grievances with anything so we can improve!

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