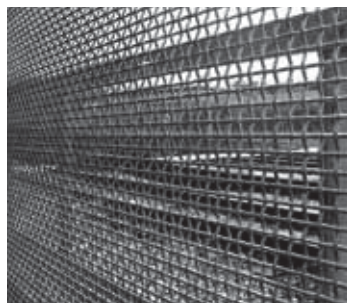


ZAUN



Perimeter Protection Systems

Product Portfolio
vs 4.1

Perimeter Protection Systems

Zaun is the only company to offer a full turnkey solution.

With the most innovative and extensive product range available.

Zaun's company ethos is simple - to design and manufacture the best perimeter security systems available. We achieve this through investing continually in the maintenance of existing and procurement of new, production machinery. This always keeps us one step ahead of the competition in terms of efficiencies in production, environment processes and flexibility in production - this ensures our fully integrated systems are always at the cutting edge of technology.

Zaun's products are manufactured in purpose built facilities within the United Kingdom. All our facilities are accredited to ISO9001: 2008 standards.

Combined with our can-do attitude in production, Zaun's turnkey package ensures at every stage of the design, production and managed installation process; our products are delivered and installed to the highest standards. This attitude of complete delivery comes from founding Directors Alastair Henman and Paul Painter, who together own this British, private manufacturing company with over 15 years of industry sector experience.

Today, highly skilled product and technical development teams, continue to develop solutions to enhance our range of products, as well as designing bespoke

products for our customers. These range are designed to work seamlessly with our standard systems. These teams combined with our sales functions, can produce tailored specifications and give product advice as well as developing CAD designs, 3D illustrations and technical drawings.

Through supplying such quality products and overall service, Zaun have supplied products to some of the most prestigious sporting and high security applications across sites in Europe, Australasia, The Middle East and South America.

We are so assured of our products, Zaun can offer an industry leading guarantee for 12-years*.



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Company Overview

The Zaun edge

With Zaun, you really can have it all – the widest range, the best service, the highest quality products, the first to market, bespoke solutions and customer support and an industry leading guarantee.

We are so confident of our product quality, Zaun offers an industry-beating 12-year guarantee on our products*. Our designers use the latest research and development to create bespoke product solutions for customers overcoming some of the most challenging installation and design requirements.

Zaun offers such exceptional levels of customer service at every stage of the supply chain process. Our sales and technical teams work hand-in-hand with our designers to develop innovative, cutting edge product solutions for our customers and to provide all the technical and product knowledge and support you could possibly need.

Zaun invests continually in the procurement of new and maintenance of existing production machinery. This keeps us one step ahead of the competition on production flexibility, efficiency and environmental performance. Our factories and manufacturing processes are accredited to ISO9001: 2008 standards.





Zaun's integrated solutions are specified by British and overseas government institutions along with prisons and leading sporting events**. Our systems are chosen as they boast some of the highest security standards available, these include Secured by Design and Publicly Available Specification ratings and accreditations.

We ensure we remain at the forefront of the perimeter protection industry by taking a leading role in many trade organisations. Our role in the Perimeter Security Suppliers Association (PSSA) as a founder member demonstrates this level of involvement.

Whichever way you choose to look at it, Zaun has the edge in perimeter protection.

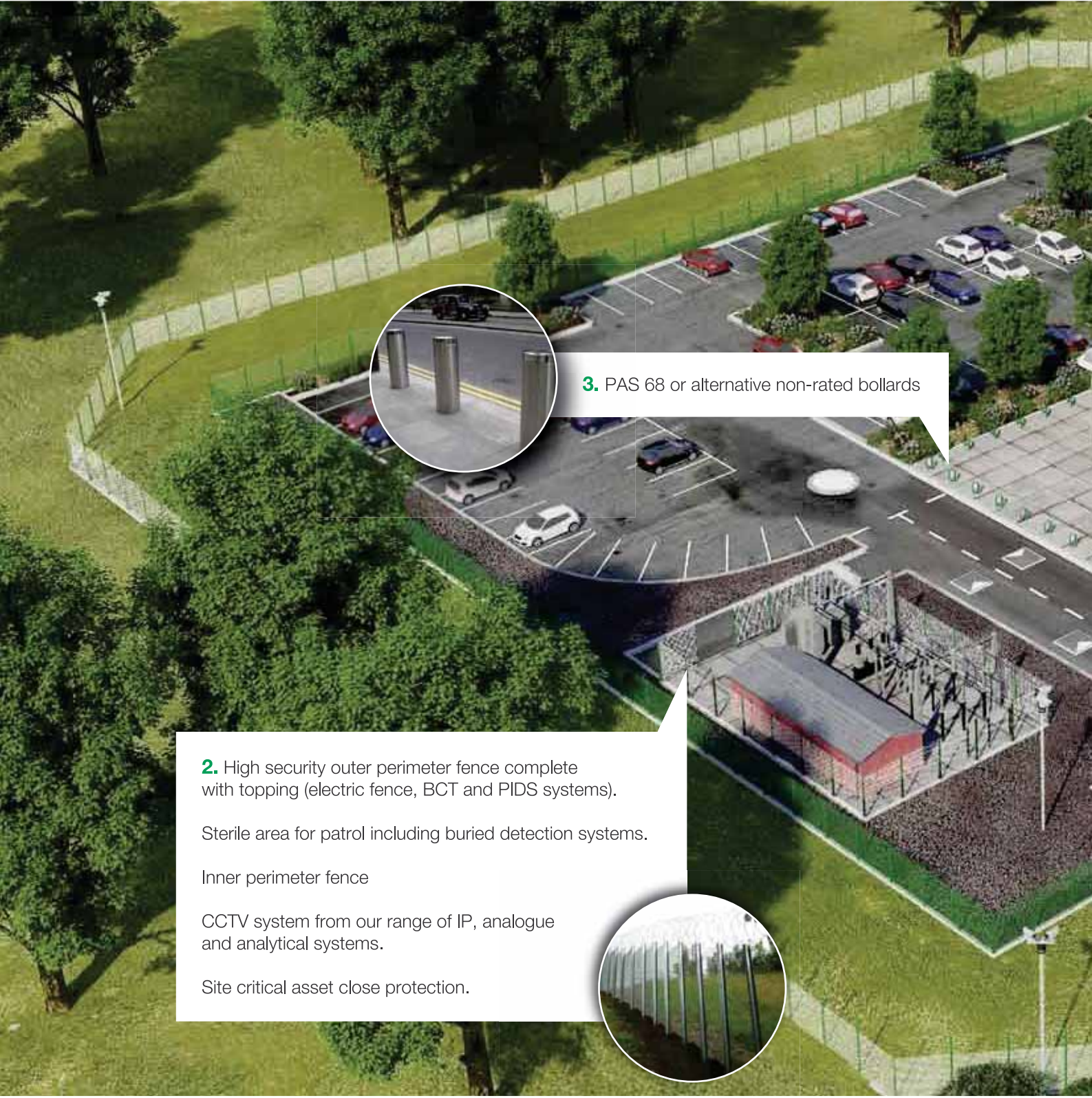
*Guarantee terms and conditions available upon request

**See page 46 for details of some of product installations



Perimeter Protection Systems

Effective use of our products



3. PAS 68 or alternative non-rated bollards

2. High security outer perimeter fence complete with topping (electric fence, BCT and PIDS systems).

Sterile area for patrol including buried detection systems.

Inner perimeter fence

CCTV system from our range of IP, analogue and analytical systems.

Site critical asset close protection.



Hostile Vehicle Mitigation Vehicle & Pedestrian Access
Perimeter Protection Systems
Integrated Systems



1. Entrance area

Turnstile access to the site and into an airlock controlled area.

PAS 68 gate and or blocker (a range of non tested products is also available).

Gate house for man-guard security.

PAS rated bollards around the entrance area (also non tested solutions available).

High security outer perimeter fence complete with topping (electric fence, Barbed Tape Concertina (BCT) and Perimeter Intruder Detection system (PIDS).



Hostile Vehicle Mitigation Vehicle & Pedestrian Access
Perimeter Fencing Systems
Integrated Systems



ArmaWeave®

Perimeter Fencing Systems

Perimeters without limits

Zaun truly leads the field in high security fencing solutions. Our products have been tested to maximum-security installation requirements by independent organisations to enable them to be specified on sites of critical importance as they exceed the most stringent intruder-resistance requirements.

Zaun is the first company to manufacture a PAS68 (Publicly Available Specification) fencing solution. This patent pending design is the world's first product to achieve V/2500(N1G)/48/90:0/0. The zero penetration system uses new technologies to nullify attack by vehicles.

Our patent pending ArmaWeave® design achieves the highest ratings for defence against forcible attack and can be raked, limiting the need for stepping panels across undulations in ground levels. Another Secured by Design product, Hi Sec Super 6, has a close mesh that is almost impossible to climb and very difficult to cut through with anything but power tools.

This enables us to provide a complete range of solutions to meet the security requirement for any high security perimeter application.

To help guide you through our range of fencing solutions, we have given indications of the security ratings for each of our products to help in the specification of these materials. These ratings consider the forcible attacks times taken during internal testing of our products. Details of these tests, along with details of independent testing of our products can be provided upon request.

Basic level of security system - Level 1

Ultimate level of security system - Level 5

Hi Sec®

The original security fence

Tried and tested, the Hi Sec security system uses popular '358' welded mesh to repel would be intruders. However, the Hi Sec system differs from the competition in several fundamental ways.

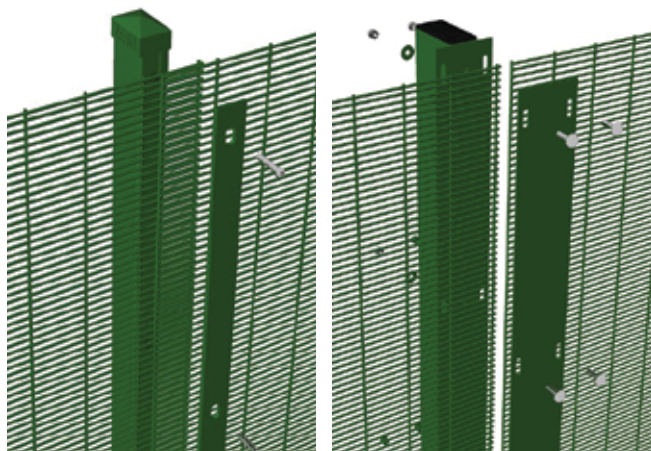
358 mesh has many qualities that make it an excellent security fence, a fact that is reflected by its use by the Home Office for prison facilities in the UK.

The close mesh means that it is almost impossible to climb, and is very difficult to cut with anything other than power tools. However, as a chain is only as strong as its weakest link, many competitors have a weak method of attaching the panels to the posts.

The Hi Sec system has no such weakness; the panel ends are held against the post by a clamp bar which makes levering the panels off almost impossible. The system is available up to 6m high in a single panel. Now also available in a lighter 76.2 x 25.4mm version.



Guidance of security - Level 1 system

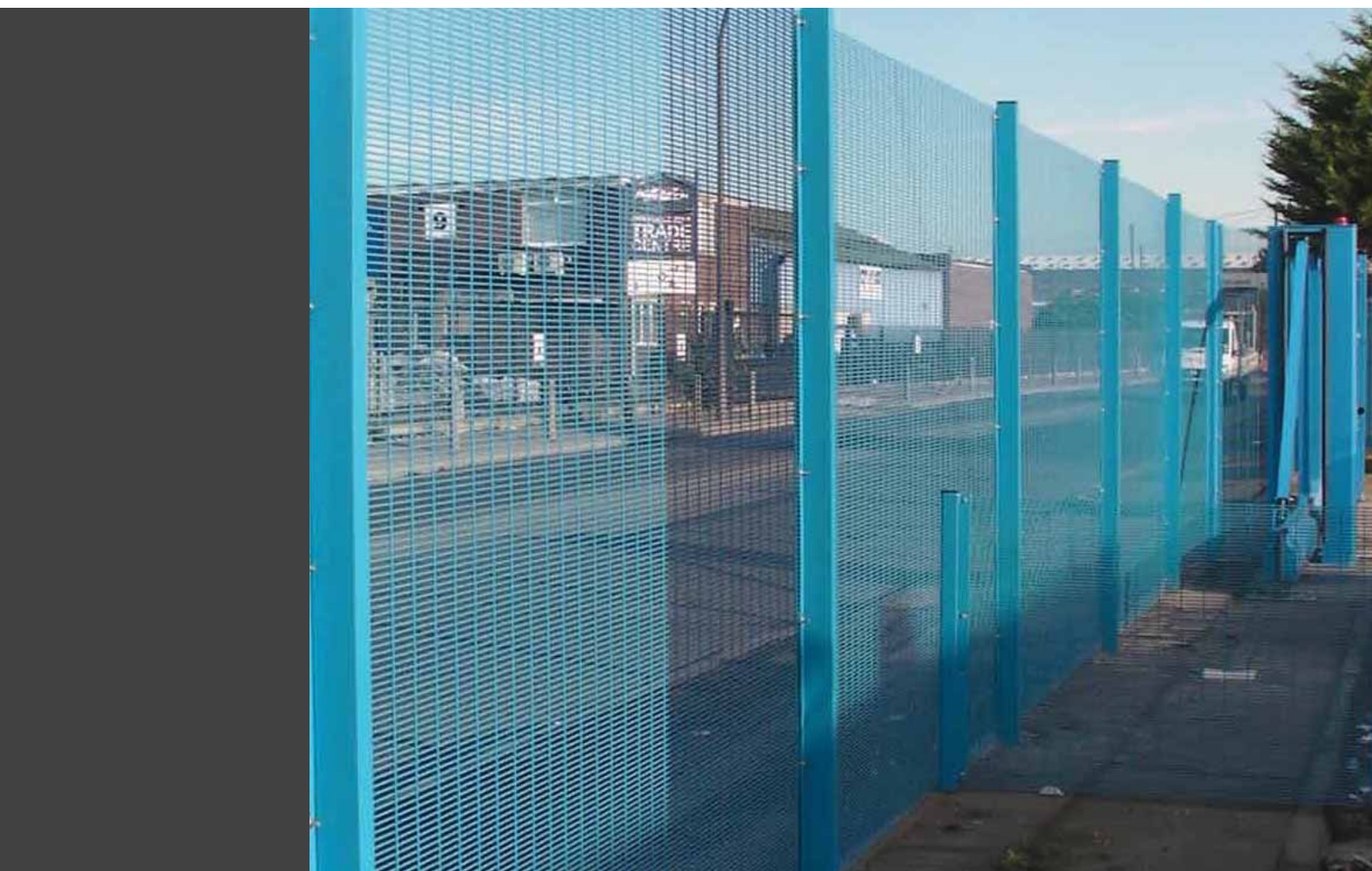


Weld shear strength tests are completed on batches of panels in line with British Standards. Weld shear strength must be greater than 75% of the ultimate tensility of the wire. In most cases our products far exceed this threshold.

Zaun mesh has been tested by the Ministry of Justice for use on HMP High Security Estate.



Hostile Vehicle Mitigation Vehicle & Pedestrian Access
Perimeter Fencing Systems
 Integrated Systems



| Height*/*** | Width**** | Vertical Wires | Horizontal Wires | Mesh Pattern | Posts** | Post Centres |
|-------------|-----------|----------------|------------------|--------------|---------|--------------|
| 1981 | 2518 | 4mm | 4mm | 76,2x12,7 | 80x40 | 2,525m |
| 2440 | 2518 | 4mm | 4mm | 76,2x12,7 | 80x40 | 2,525m |
| 2997 | 2518 | 4mm | 4mm | 76,2x12,7 | 100x50 | 2,525m |
| 3658 | 2518 | 4mm | 4mm | 76,2x12,7 | 100x50 | 2,525m |
| 4200 | 2518 | 4mm | 4mm | 76,2x12,7 | 120x60 | 2,525m |
| 5200 | 2518 | 4mm | 4mm | 76,2x12,7 | 160x80 | 2,525m |
| 6011 | 2518 | 4mm | 4mm | 76,2x12,7 | 160x80 | 2,525m |

* In one piece - any height on request

** Prison style post available 139.7chs

*** Export restrictions on panel heights may apply

**** Panel widths available at 3 metres

Hi Sec® Double Skin

Where sites require a more robust solution double skin Hi Sec is available. Two layers of the traditional Hi Sec mesh 76.2mm x 12.7mm x 4mm are either bolted or welded together with the rear secondary panel turned through 90 degrees making a very tight mesh configuration which is difficult to cut and almost impossible to climb.

The system conforms to BS1722 Part 14 Category 4. It has been extensively used in prisons and by the MoD to protect high security assets.

Guidance of security - Level 3 system



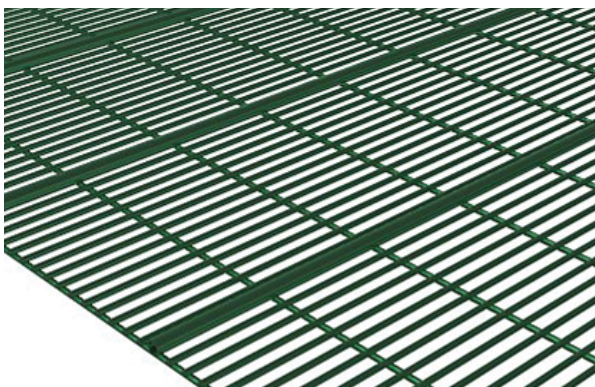
Hi Sec Tube Detect™

In a new innovation, using the flexibility in our mesh manufacturing process, Zaun have been able to produce a Hi Sec mesh panel with a tube in place of either one or a number of the Horizontal wires.

This development will allow for discrete placement of microphonic cable systems and also offer protection against tampering. Along with this product, Zaun can offer a range of microphonic/fibre based, protection systems. See pages 38-40 for range of products.

The discrete nature of the product means that would be intruder's are unaware of the existence of the system and so are easier to track and target. The system is also available in more conventional, medium security fences. Electronic controllers and or interfaces can also be housed in post centres to completely obscure the system.

**Guidance of security - Level 3 system
(when combined with PIDS)**



Hi Sec® Super 6 & Super 8

A leading security protection system

Hi Sec Super has been developed through consultation with the Home Office. This leading system solution is designed to protect high profile and sensitive sites.

Hi Sec Super has been developed using techniques from our 358 system and has many common attributes, however through using either 6mm or 8mm vertical wires and 76.2 or 50mm spacing, the system reduces attack options to vulnerable horizontal wires and introduces increased delay.

Guidance of security - Level 2 system



Our unique Sigma post has been specifically designed for Hi Sec® Super 6 and Super 8.

This post gives significant strength, fixing and security advantages.



Hostile Vehicle Mitigation Vehicle & Pedestrian Access
Perimeter Fencing Systems
 Integrated Systems



| Height */*** | Width**** | Vertical Wires | Horizontal Wires | Mesh Pattern | Posts | Post Centres |
|--------------|-----------|----------------|------------------|--------------|---------|--------------|
| 1,981m | 2,518m | 6mm/8mm | 4mm | 76,2/50x12,7 | 80x40mm | 2,525m |
| 2,440m | 2,518m | 6mm/8mm | 4mm | 76,2/50x12,7 | 80x40mm | 2,525m |
| 2,997m | 2,518m | 6mm/8mm | 4mm | 76,2/50x12,7 | Sigma | 2,525m |
| 3,658m | 2,518m | 6mm/8mm | 4mm | 76,2/50x12,7 | Sigma | 2,525m |
| 4,200m | 2,518m | 6mm/8mm | 4mm | 76,2/50x12,7 | Sigma | 2,525m |
| 5,200m | 2,518m | 6mm/8mm | 4mm | 76,2/50x12,7 | Sigma | 2,525m |
| 6,011m | 2,518m | 6mm/8mm | 4mm | 76,2/50x12,7 | Sigma | 2,525m |

* In one piece - any height on request

*** Export restrictions on panel heights may apply

**** Panel widths available at 3 metres



ArmaWeave®

The new benchmark in security fencing

'ArmaWeave' a patent pending design has been developed to meet the growing niche in the market for a higher security fencing system and is the first high tensile steel security panel on the market.

The unique properties of this woven mesh system offers substantial advantages in delay times from attacks such as cutting with hand, powered and non contact tools, than what can be offered from traditional welded mesh systems.

Tested by various government departments 'ArmaWeave' meets the current criteria for forcible attack (details upon request).

The tight mesh pattern offer no climbing aids and provide little room for blades and cutting tools to attack the fabric.

Guidance of security - Level 4 system



Mesh Pattern 12x12mm



Mesh Pattern 12x50mm



The tight mesh pattern offer no climbing aids and provide little room for blades and cutting tools to attack the fabric.

Hostile Vehicle Mitigation Vehicle & Pedestrian Access Perimeter Fencing Systems Integrated Systems



| Height */*** | Width**** | Vertical Wires | Horizontal Wires | Mesh Pattern | Posts | Post Centres |
|--------------|-----------|----------------|------------------|--------------|-----------|--------------|
| 2m | 2515mm | 4mm | 4mm | 12x12mm | 80x40mm | 2525mm |
| 2,4m | 2515mm | 4mm | 4mm | 12x12mm | 80x40mm | 2525mm |
| 3m | 2515mm | 4mm | 4mm | 12x12mm | 140x120mm | 2525mm |
| 3,3m | 2515mm | 4mm | 4mm | 12x12mm | 140x120mm | 2525mm |
| 3,9m | 2515mm | 4mm | 4mm | 12x12mm | 140x120mm | 2525mm |
| 5,2m | 2515mm | 4mm | 4mm | 12x12mm | 140x120mm | 2525mm |

| Height */*** | Width**** | Vertical Wires | Horizontal Wires | Mesh Pattern | Posts | Post Centres |
|--------------|-----------|----------------|------------------|--------------|-----------|--------------|
| 2m | 2515mm | 5mm | 5mm | 12x50mm | 80x40mm | 2525mm |
| 2,4m | 2515mm | 5mm | 5mm | 12x50mm | 80x40mm | 2525mm |
| 3m | 2515mm | 5mm | 5mm | 12x50mm | 140x120mm | 2525mm |
| 3,3m | 2515mm | 5mm | 5mm | 12x50mm | 140x120mm | 2525mm |
| 3,9m | 2515mm | 5mm | 5mm | 12x50mm | 140x120mm | 2525mm |
| 5,2m | 2515mm | 5mm | 5mm | 12x50mm | 140x120mm | 2525mm |

* In one piece - any height on request

*** Export restrictions on panel heights may apply

**** Panel widths available at 3 metres



ArmaWeave® Plus

When the highest level of perimeter protection is necessary, Zaun has a product to meet this requirement.

ArmaWeave® Plus is our highest rated offer, giving maximum delay from forcible attack.

Guidance of security - Level 5 system



For specification details contact a member of our technical team.



Hostile Vehicle Mitigation Vehicle & Pedestrian Access
Perimeter Fencing Systems
Integrated Systems



ArmaWeave Forcible attack trials

In line with approved testing methods, Zaun has carried out a program of forcible attack trials using a wide range of attack tools. We have also used approved method of entry professionals to ensure that our tests exactly replicate official methods. The results of our test program have

demonstrated the significant advantages the ArmaWeave product gives over conventional welded mesh systems. Please contact a member of our sales team if you would like to see sample videos or the results of our tests.



Thermic lance attack



Battery powered angle grinder attack



Bolt cropper attack

Multi-Fence®

A mobile high security system

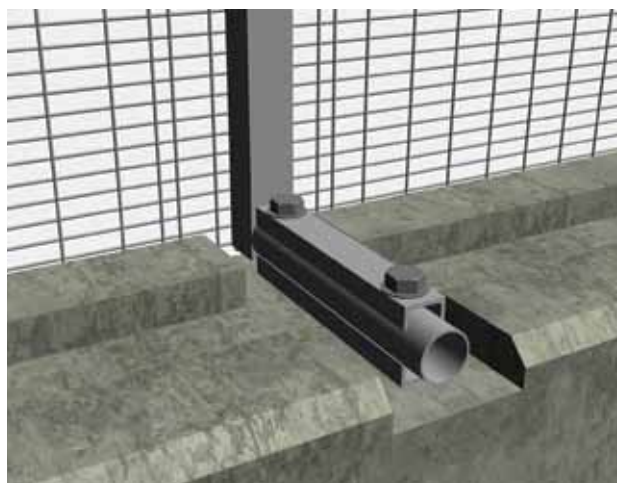
Multi-Fence is a mobile, durable high security solution for situations that require temporary to long-term protection.

Multi-Fence uses anti-climb mesh fencing, and is available up to 5m in height. The fence posts are mounted in concrete blocks, which, due to an ingenious bolting method, can follow a curve or go from a flat surface to an incline with ease.

Zaun have developed above ground gate solutions for vehicle and pedestrian access, as well as CCTV columns, enabling the system to provide a truly robust, temporary or permanent solution to meet your security requirement.

*Multi-Fence is supplied with a standard mesh configuration however for sites of critical importance, the fence product can be changed to use Hi Sec, Hi Sec Super 6/8 and ArmaWeave products which give additional security for your site.

See page 32 for details of our fully integrated PAS68 Multi-Fence vehicle mitigation solution.



Features and Benefits

- Allows for changes in direction and ground level
- Fence height up to 5m in height
- CCTV extensions available
- Suitable for use over soft and hard ground conditions
- No anchoring required
- Available for rental or purchase

Manufactured to meet the stringent quality standards of BS EN 1317 Part 2 (vehicle restraint systems) the blocks are approved for use by the Highways Agency. Different fencing types and two different types of block can be combined depending on the site requirements.

The mounting of the fencing on the blocks means that a considerable amount of space is saved over using separate roadblocks and temporary fencing. Available for rental or sales. Registered Community Design No. 1807926.

Hostile Vehicle Mitigation Vehicle & Pedestrian Access
Perimeter Fencing Systems
 Integrated Systems



Fencing Specifications

| Height | Mesh Pattern | Vertical Wires | Horizontal Wires | Posts Centres | Panels fixed to posts |
|------------|---------------|----------------|------------------|---------------|-----------------------|
| 1.8 - 5.2m | 12.7 x 76.2mm | 4mm or 6mm | 4mm | 1.5m | Fixings every 400mm |
| | 25.4 x 76.2mm | 4mm | 4mm | 1.5m | Fixings every 400mm |
| | ArmaWeave | 4/5mm | 4/5mm | 1.5m | Fixings every 330mm |

Concrete Block Specifications

| | Height | Width | Length | Weight |
|-----------|--------|-------|--------|------------|
| Multibloc | 0.8m | 0.45m | 3m | 2.5 tonnes |
| Maxibloc | 1.4m | 0.45m | 3m | 4.5 tonnes |



Sloping Ground



5.2m High



CCTV

QMB Fence

A mobile high security system

Zaun have recently developed a rapid deploy, above ground fencing system for heights up to 2.4 metres. The innovated post arrangement allows for posts and panels to be erected and removed in a matter of minutes.

This system can be used with any of our mesh types offering a range of flexibility and security.

We also offer this system for either rental throughout the UK or outright purchase.



Features and Benefits

- Quickly deployable
- No below ground foundations
- Up to heights of 2.4m
- Available with Hi Sec, Hi Sec Super 6/8 and ArmaWeave panels
- Available for rental or purchase

SecureGuard Fence

A mobile high security system

SecureGuard is a high performance advanced perimeter protection system used to immobilise vehicles attempting to penetrate high security areas.

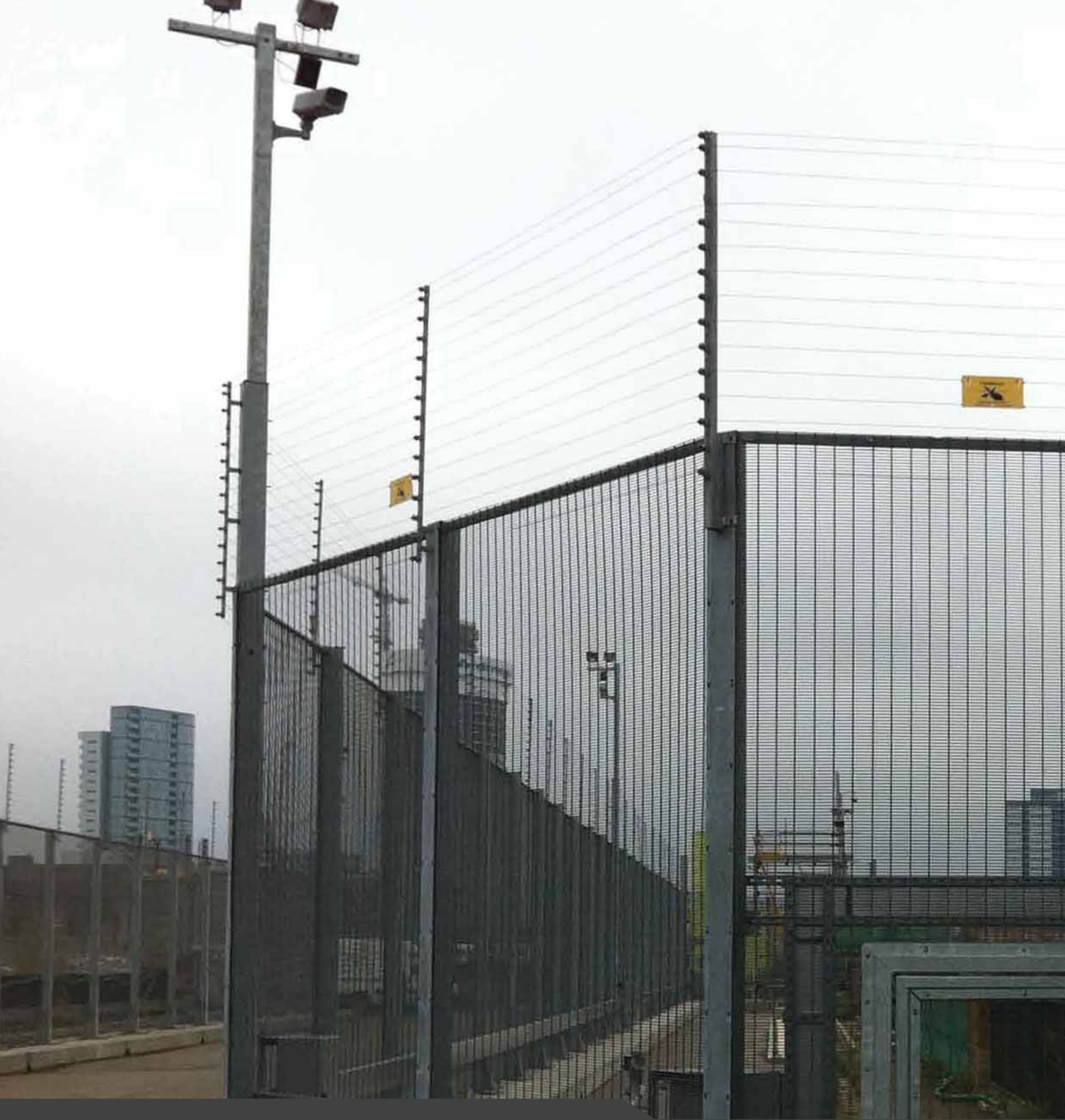
Tested to PAS 68:2007 (7500kg truck, impacting angle of 90 degrees at speeds of 20, 30 & 50mph), SecureGuard has proven to withstand multiple impacts whilst maintaining a secure perimeter. The system also meets the DOS K4 and K12 standards.

The system prevents vehicle intrusion from both small and large vehicles, whilst also providing a crash friendly barrier to errant road users travelling on perimeter roads.



Features and Benefits

- High performance, durable system tested to PAS 68:2007
- Low maintenance
- Ease of installation - shallow foundations for permanent applications; road surface anchoring available for non-permanent situations
- Highly portable and cost-effective transportation
- Crash-friendly to normal road users - safe to use next to perimeter access roads
- Rapidly deployable at locations where a non-permanent solution is required



Vehicle & Pedestrian Access **Security Toppings**

Hostile Vehicle Mitigation

Integrated Systems

Perimeter Fencing Systems

Security Toppings

No fencing solution is complete without a security topping. Toppings are proven to provide a further visible deterrent for attack of a perimeter fence-line. Through our wealth of experience in this product area, Zaun can assist in specifying the most appropriate solution to meet your security needs. We can incorporate within our post and panel systems, additional security toppings to meet any security requirement. Whether using common electric or barbed wire solutions, our highly developed range will enable the correct solution to be supplied to meet your requirements.

We also have a range of more innovative solutions, which can be supplied to address more specific, technical requirements of a site.

Toppings

MACT™ System

Many secure facilities in the United Kingdom experience problems in meeting the security requirement - products need to be safe, practical, affordable, and above all, secure.

MACT prevents individuals gaining access to rooftops and fence lines or other areas outside of the permitted domain. The system has been developed to enable you to clearly see through to identify any blockages which can be associated with other systems. Sections can easily be removed with a special tool to clear any blockages.

Our mesh pattern is anti climb and reduces the wind loading for the product, thus reduces the cost of manufacture, but provides clear line of sight for CCTV systems.

The MACT system can be used in conjunction with other provisions such as CCTV and infra-red alarms, and as standard, will use a wire alarm to alert of any attempt to scale the system.



FST® System

FST® is a registered design, fully tested for use in high security prisons in the United Kingdom and other high security sites throughout the country.

At the heart of FST® is a steel mesh fixed to a flexible steel bracket that is designed to move when people attempt to climb it.



Toppings

Barbed Tape

Barbed tape is the most common of the toppings, available as either straight wire or spiral concertina wire. Attached to the top of the post sections on a fence typically by either T-Bar or Y extensions.

A very effective product in resisting penetration by climbing but also provides a high level visual deterrent.



Electric Topping

Electric fencing systems provide security and protection of the perimeter of many of the country's key infrastructure sites. The construction of the electric fence system, when combined with a secure fencing system, creates a very powerful psychological and physical barrier to overcome.





Perimeter Fencing System

Vehicle & Pedestrian Access

Hostile Vehicle Mitigation

Integrated Systems

Hostile Vehicle Mitigation

Along with standard gates, barriers and blockers, Hostile Vehicle Mitigation (HVM) products are available which have been tested to the PAS68 standard.

These products are specifically designed and installed to withstand a variety of vehicle borne attack. As founder members of the PSSA (perimeter security suppliers association), Zaun is committed to providing a system into any of our perimeter security schemes where required.

What is PAS 68/69?

PAS 68:2010 is the latest BSI's Publicly Available Specification for vehicle security barriers. This standard is the benchmark for HVM (Hostile Vehicle Mitigation) equipment. The Standard contains the regime which products are tested against.

To be read in conjunction with PAS 68:2010 is PAS 69 this specification document provides guidance on the product installation and specification.



PAS 68 Rated In-line Fence

The first integrated PAS fencing solution.

Zaun is the first company to manufacture a fully integrated vehicle mitigation fence solution. This product achieves PAS68 V/2500(N1G)/48/ 90:0/0.

Designed to mitigate the ever-increasing security risk on sites of critical importance, this zero penetration solution uses leading industry technologies to nullify attack by vehicles.



PAS 68 in-line fence incorporates Hi Sec Super 6 mesh, details for this product can be found on page 14.

Perimeter Fencing System Vehicle & Pedestrian Access
Hostile Vehicle Mitigation
Integrated Systems



Rating: PAS68 V/2500(N1G)/48/ 90:0/0.

PAS 68 Multi-Fence®

A mobile high security system

Zaun is the first company to manufacture a fully integrated vehicle mitigation fence solution. This is the world's first product to achieve PAS68 V/2500(N1G)/48/ 90:0/0.

Designed to mitigate the ever-increasing security risk on sites of critical importance, this zero penetration solution uses leading industry technologies to nullify attack by vehicles.

PAS 68 Multi-Fence combines all the attributes of our standard system, manufactured to meet the stringent quality standards of BS EN 1317 Part 2 (vehicle restraint systems), the blocks are approved for use by the Highways Agency.



The system is ideal for applications such as utility plants, as no below-ground foundations are required and can be used on soft and hard standing.

The system can be supplied with any of Zaun's security fencing products, giving protection up to 5m in height. Zaun can also incorporate above ground foundation gates and CCTV columns for use on the system.

Multi-Fence® and PAS 68 Multi-Fence® are available for rental or purchase.

See standard product on page 20.

Perimeter Fencing System Vehicle & Pedestrian Access
Hostile Vehicle Mitigation
Integrated Systems



PAS68:2010 V7500(N2) 48/90:3.0/0.0
PAS68:2010 V7500(N2) 64/90:5.0/0.0

Terror Stopper™ Range

A range of PAS68 rated bollards and barriers

Zaun has a range of PAS rated Bollards and Manual Rising Arm Barriers which are designed to be incorporated into our perimeter protection schemes. Our selection offers a range of differing speed and vehicle types to suit most site requirements.



3m opening Manual Barrier V3500(N1)80-90-2.2-0.0

Perimeter Fencing System Vehicle & Pedestrian Access
Hostile Vehicle Mitigation
 Integrated Systems

3m opening Manual Barrier
 V7500(N2)48-90-0.0-0.
 (also available in
 4.5m opening)



Terror Stopper 1 Bollard
 219 x 10 V7500[N2]48-90-0.0-0.0



Terror Stopper 2 Bollard
 273 x 16 V7500[N2]64-90-4.0-16.7



Terror Stopper 3 Bollard
 273 x 10 V7500[N2]64-90-3.3-0.0



Perimeter Fencing System

Vehicle & Pedestrian Access

Integrated Systems

Hostile Vehicle Mitigation

Integrated Systems

Turnkey perimeter solutions

It has become apparent that to protect a vulnerable site it takes more than a physical fencing solution. On the back of recent project success, Zaun has developed partnerships with key product suppliers and systems integrators to ensure that our offer is of the highest calibre. Zaun's integrated solutions can cover all the required elements in a comprehensive system, and products include:

- CCTV & Video Analytics
- Access Control
- Intruder detection systems
- Bollards

Our integrated solution, which is part of a turnkey package, is project managed by our specialist design and installation teams.

Integrated Systems

Zaun's integrated solutions can cover all the required elements in a comprehensive system. Zaun has developed partnerships with key industry suppliers and system integrators so to ensure the best range of products can be supplied.

Microwave sensors, TAUT wire, CCTV, access control and buried fibre cables all form part of our extensive range of products.



Fence Detection

Micro phonic cable solutions are generally mounted on the fence or structure which detects any fence disturbance and locates the penetration to within a few metres. This accuracy of location allows the micro process or in the system to analyse the signals produced from any attempt to cut or climb the fence while ignoring signals produced from the environment such as noise from wind, heavy rain and passing vehicles.



CCTV

CCTV is often used for surveillance in areas that may need monitoring such as secure perimeters, airports, military installations and key infrastructure. CCTV systems may operate continuously or only as required to monitor particular times of a day or actions. A more complex system can be designed, utilising DVRs to continually record and capture images.

It is possible for the DVR device to provide recording and storage capability for many years. When integrated with a GUI, this recorded footage can be played back to a specific moment in time to view the event as it happened, and can also be used as evidence in proceeding cases.

Perimeter Fencing System Vehicle & Pedestrian Access
Integrated Systems
Hostile Vehicle Mitigation



Access Control

Access control is a system which enables the owner to control access to areas and resources in a facility. An access control system, within the field of a security solution, is generally seen as the second layer in the security of a physical structure, and is combined with access gates, barriers and turnstiles to form a fully auditable solution.



Taut Wire

Taut wire sensors are a very efficient sensor. Generally the system is based on a Sensor post designed for a single horizontal wire or multiple wires forming a fence. Looking very similar to an electric fence there is also the psychological barrier to breach. The sensor's detection range is roughly 100m and any deflections in the wires will cause an alarm event.

Integrated Systems

A complete perimeter protection scheme could require controlled site entrance and egress. This can be achieved in a number of ways. Rising kerbs / blockers / arm barriers and bollards are a very effective way of controlling traffic flow.

Zaun can offer tested and non tested products and automated and static bollards as part of our solution.



Locks

Our range of lock solutions can be supplied to meet the same security requirements of our fencing and vehicle and pedestrian access gates.

These solutions have been developed in conjunction with leading suppliers of lock solutions and in many cases have been designed specifically for our products.

These products conform to standard EN12209:2003. Products include the electro-mechanical gate lock with claw bolt or slide bar closing mechanisms. These products are suitable for use on external perimeter gates (e.g. electrified perimeter fencing requiring escape function), and features a powerful claw mechanism which engages with a heavy duty stainless steel adjustable strike.

These products have undergone an extensive test programme which has been independently verified.



Durability and Security Testing

- Independently attack audited
- 100,000 operations by key in accordance with EN12209:2003
- 100,000 operations by electronic activation in accordance with EN12209:2003



Hostile Vehicle Mitigation Perimeter Fencing Systems
Vehicle & Pedestrian Access
Integrated Systems



Vehicle & Pedestrian Access

Zaun offers a range of gates and turnstiles to meet the security demands of each site

We provide internal swing pedestrian gates, to high security automated cantilever gates with electric fence toppings. We can also offer bespoke designs to allow for electronic locks and panic latches, to further enhance the security of our clients' sites.

Vehicle & Pedestrian Security

Solutions designed to meet specific requirements

Zaun offers a range of gates and turnstiles to meet the security demands of each site.

We provide internal swing pedestrian gates, to high security automated cantilever gates with electric fence toppings. We can also offer bespoke designs to allow for electronic locks and panic latches, to further enhance the security of our clients' sites.



We can also offer bespoke designs to allow for electronic locks and panic latches, to further enhance the security of our clients' sites, see page 41 for details of our lock solutions. Gates can also be manufactured for our temporary fencing solutions using above ground foundations.

Hostile Vehicle Mitigation Perimeter Fencing Systems Vehicle & Pedestrian Access Integrated Systems

Zaun automated cantilever sliding gates are BSEN 12435 compliant. Our range is easy to install and provides an ideal solution. The gates can be in-filled with any of our mesh types to meet the security requirement of the site.

Complete with all the required safety edges of the automatic cantilevered sliding gate, the gate is fitted with dual-height photo-cells. Anti-climb spikes are optional for gates over 1.50m high.



Notable Sites Installations & Clients

Alexandria Egypt
Birmingham City University
British Telecom Communications Centre
Cash Handling Centres – London region
Coca Cola - Enfield
EDF Energy
Egyptian LNG (Liquefied Natural Gas) Plant near
Electric Substation Plants UK & Republic of Ireland
Eurotunnel
Explosives Factory Scotland
Her Majesty's Prison Belmarsh
Her Majesty's Prison Lindholme
Home Office Test Field
Isle of Wight Zoo
Jodrell Bank Observatory
London 2012 Olympic
London City Academy
Metropolitan Police
Meydan Race Course Dubai
Midlands - Medium Secure Mental Health Unit
Mossbourne Academy
Naval Ship Yard
Network Rail
Network Rail Control Facility
Nuclear Submarine Base
Nuclear Submarine Refitting Yard
Oil Terminal - Shetlands
Prison de Sequedin (France)
Rotherhithe Tunnel
Severn Trent Water
Smithkline Beacham
Societe de Protection de la Communeaute Juive
South Warwickshire NHS
Transco - Warrington Storage Site
Wales - Medium Secure Mental Health Unit
Walsall Hospital
Water Treatment Plants

ZAUN

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