



Genwork Ltd

PART OF THE BACHE GROUP



Schools

Safety and security solutions

Perimeter security for schools

Serving Schools

Genwork is a company with an inherent belief that fencing systems for schools should address a variety of issues and potential concerns:

Project a positive image of the school

Reflect social responsibility, through sensitive design and attractive appearance

Provide a safe and secure learning environment

Provide assurance that Genwork systems meet the highest standards of quality and installation, ensuring a long-term, risk-free solution.

Our comprehensive support programme will see you through from planning to installation.

Whatever your objective, you can be confident that we will provide the best solution.

Wide Choice

Genwork offers the widest range of security fencing and access control systems for general purpose, anti-intruder and high security, encompassing every element of the school environment.

Quality Finishes

Genwork's primary objective is to offer superior quality, geared to the specific needs of its customers. Right from the design stage, the main priority is to establish quality as the basis of our fencing systems, ensuring that it governs every aspect of the production process. As market leader, Genwork is a recognised authority on key elements such as steel coating technology, and of course has its Quality Systems accredited to ISO9000.

Contractor Network

Genwork Team-net Licensed Contractors

Customers can be confident of receiving not just a superior system, but also the highest standards of installation. To fulfil customer expectations, we have created the Team-net Licensed Contractor network. Team-net contractors have earned their status through meeting rigorous assessment criteria covering technical competence, training, financial status and quality of workmanship.

Team-net Licensed Contractors

These are contractors who have received their initial Genwork Licence to undertake projects qualifying for the Genwork 10-year insurance-backed guarantee covering both materials and installation.

Team-net Chartered Contractors.

This is the highest status of Genwork Licensed Installer. All Team-net Licensed Contractors must work towards achieving Chartered status within one year of being given their initial licence, as part of a continued drive for excellence.

Best Value

Genwork security systems are finished to the very highest standard. All are coated and tested to 1000-hour salt spray tests in strict compliance with the latest Euro norms. This is essential to comply with the requirements of our unique, 10-year, insurance-backed Genwork guarantee and our commitment to deliver the most competitive "Life Time Cost" products.



Schools

SAFETY AND SECURITY SOLUTIONS

School governors and managers have an interest in security borne of "duty of care". The heart of their concern is the safety and wellbeing of pupils, staff and visitors.

Governors and education boards / authorities are aware of the fact that crime causes disruption, expense and loss of facility use, with the consequent effect on educational outcomes and standards.

In light of the difficult circumstances with which many schools are faced, it has been found that a secure perimeter acts as the first line of defence against crime and as a major deterrent to intrusion. The erection of an integrated security system is recommended, and it is recommended that plans for fencing be considered in conjunction with gates, vehicle barriers, cameras and other surveillance equipment.

A recent DfEE report has confirmed that the security concerns of many LEA's would be addressed in large part by the erection of fit-for-purpose perimeter fencing in their schools. This confidence in the effectiveness of security fencing is confirmed by the experience of individual schools. One in particular identified a 75% reduction in crime and trespass following proper risk assessment and installation of the right system.

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This publication sets out to:

- illustrate the practical issues that school governors and managers need to consider when determining the positioning of a security fence.
- assess the level of crime in and around the school and the resulting security level of fence required.
- discuss the criteria for selecting a type of perimeter fence
- illustrate points to consider when choosing a contractor.



Assessing your school

1 Playing fields

Issues to be considered when specifying a fencing system for the boundary of a playing field can vary between rural and urban environments. Pupil safety is paramount, with risks to be addressed ranging from discarded litter such as broken glass and syringes, to dog fouling. At one extreme, long-established rights of way and footpaths may need to be considered, while at the other local intrusion and nuisance may be a common problem. A fencing system which is pleasing to the eye and with good "through vision" is essential.



2 Children's play area

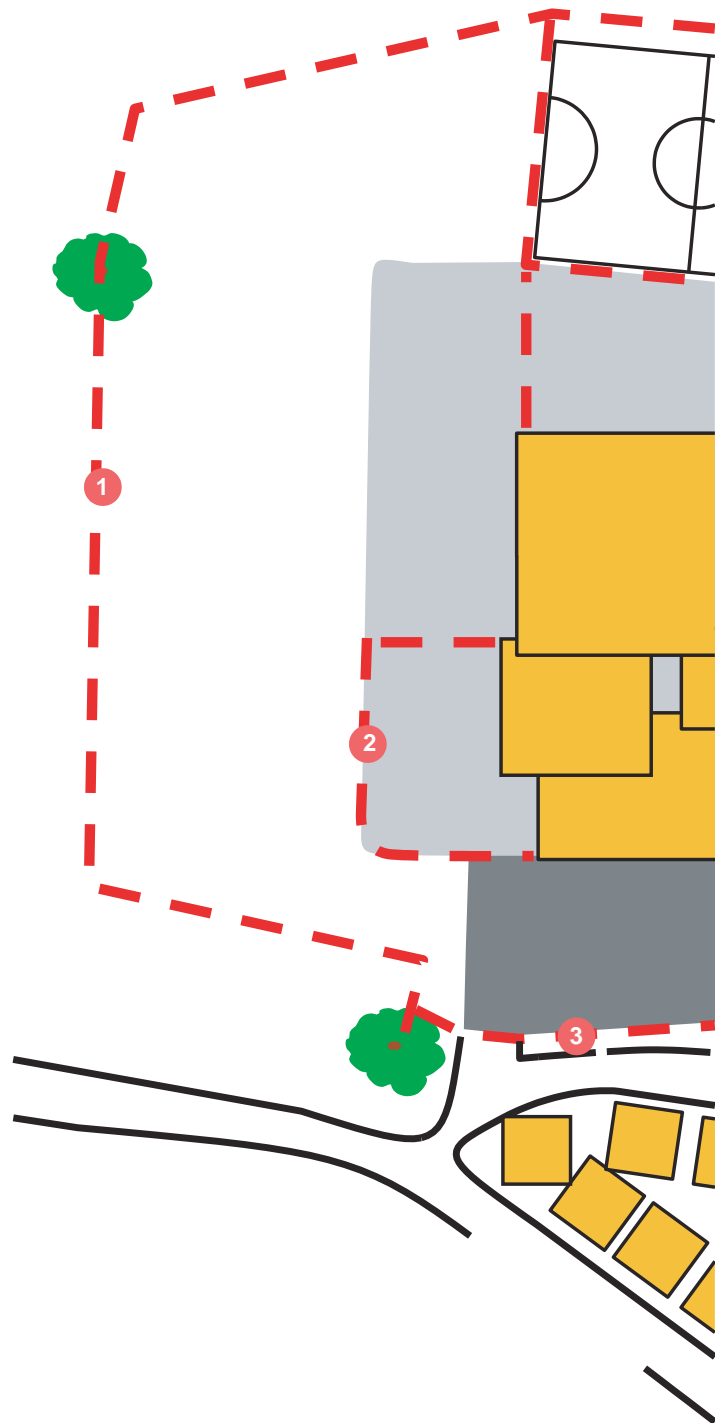
These should not resemble a "caged" environment. A maximum height of 1.5 metres is recommended, though with a fence of this height children require constant supervision, to prevent a child being lifted over the top.



It is most important that the fence is of safe construction and does not present a hazard to children who seek to climb it. Any entry point, other than doors from school buildings, should have a gate without trapping features and a self-closer or dog-proof grid to prevent dogs gaining access. Again, a fence with good through vision is essential.

3 Car parks

The location of a car park within the school grounds will determine the required level of security. If in close proximity to school buildings, access control barriers or gates may be adequate. However, if the car park is in an isolated or unobserved location, an anti-vandal fence with good through vision to aid the use of CCTV is required. Controlled vehicular access by card readers or remote control will be needed during hours of use.



A secure learning environment

School governing bodies carry the main responsibility for developing their schools' security policy. For the head teacher and management team to implement that policy involves a wide range of activities.

The key ones are:

- liaising with the police and other authorities to keep abreast of local crime patterns
- recording security incidents consistently
- carrying out periodic security surveys and security risk assessments
- developing a security strategy tailored to the school's unique circumstances

The *White Paper: Education 2005*, published by Genwork, highlights the importance of perimeter fencing as the most effective means of reducing intrusion and subsequent acts of vandalism, theft and arson.

Carrying out a security survey

The first stage in developing a security strategy is to carry out a security survey. This is best done with the support of local Crime Prevention Officer or Police Architectural Liaison Officer. The plan on this page shows a typical school and highlights the kind of issues that need to be considered. However, the design and surroundings of each school is unique and so will require its own specific considerations and solutions.

There are several checklists available to form the starting point for a security survey. However, the checklist in the DfEE Managing School Facilities Guide No.4 *Improving Security in Schools* is particularly comprehensive.

Carrying out a risk assessment

The security survey will have identified the most vulnerable parts of the school and best position for a security fence. The next step is to determine the level of security the fence should provide. An assessment of the level of crime in the school locality should play a large part in determining the level of security that the fence and its access gates need to provide.

The following questions will help you to assess the level of risk.



What is your school's level of risk?

This page sets out a method of assessing your school's level of risk. It allows you to determine the appropriate security category for your school's perimeter fence.

Assessing the level of crime

The process asks you to assess, on a scale of 1 to 5, the incidence of school crime in the last 12 months. The assessment is based on DfEE Guide No. 4, *Improving Security in Schools*.

Assessing the future risk

Take into account any future plans or developments which could have an immediate impact on the school or to its close environment.

Your security category

Add the scores for each issue and look up the most appropriate security category for the school fencing from the table below.

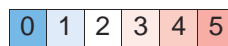
Total score	Security category
0 to 15	1
15 to 30	2
over 30	3

Incidences of school crime



Trespass

No cases of trespass in school grounds

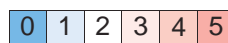


Trespassers commonly present in school grounds



Vandalism

No cases of vandalism reported

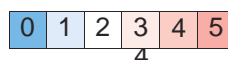


Frequent and costly vandalism of school buildings



Theft/Burglary

No cases of theft of burglary

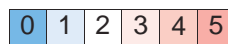


Frequent theft and burglary



Fire

No arson attacks in the locality

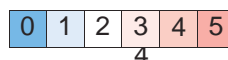


Schools in the locality have suffered from arson attacks



Personal attack

No attacks or threats reported

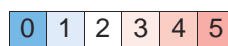


Attacks in school or in vicinity of school



Drug abuse

No problems reported



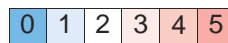
School or local problem with drugs or solvent abuse

Other issues to consider



Incidence of crime in the locality

Locality has a low crime rate

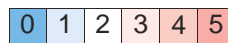


Locality has a high crime rate as reported to police



Buildings overlooked from roads or housing

Grounds clearly visible to public

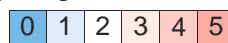


Unobserved grounds



Car parks – lighting and surveillance

Car park well lit and overlooked

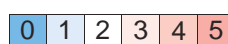


No safe place to park. Car parks unlit and not overlooked, or surrounded by trees



Buildings isolated from main block

No buildings isolated from main block



Many isolated buildings including temporary huts

The security categories

The following categories are taken from BS 1722: Part 14, *Specification for open mesh steel panel fences*.
Note that the height of a fence can move it up or down a category.

Category 1

General purpose fence up to 2.4m high-marks boundary offering minimum deterrence.



Category 2

An anti-intruder fences, up to 2.4m high offer a degree of resistance to climbing and breaching.



Category 3

A high security fence at least 3.0m high. It will deter and delay a resourceful attacker.



		Category	Aesthetics	Delay time	Deterrence	Visibility	Climbability	Safety	Life-cycle cost
	Timber post and rail								
	Strained wire								
	Chainlink and Welded mesh rolls								
	Welded mesh panels								
	Railings		✓ ✓	✓	✓	✓		✓	✓
	Palisade								
	Expanded metal		x	✓ ✓	✓ ✓		✓ ✓		✓

The fencing options in detail

Timber

Timber fencing is usually post and rail or close boarded. They can give a rustic appearance with a low level of security. Post and rail gives good through visibility but is easily climbable. In comparison, close board is difficult to climb but gives no through visibility. To give good levels of longevity, provision for routine maintenance should be made.



Railings

Railings provide an alternative to palisade with a less draconian appearance. It is an attractive fence manufactured in either tube or solid bar with galvanised and or polyester coated finish. Offering low to medium security, it is normally erected on the frontage of a property to enhance the appearance. Finial heads may be added to customise the post tops. In areas where safety is important, a bow top finish should be selected.



Strained wire fences

A basic boundary demarcation fence offering no security or safety value. Genwork strongly recommend that strained wire fences should **not** be used in school environments, particularly when close to roadways, railways and waterways.



Palisade

Available in a variety of steel thicknesses and profiles, it is a rigid fencing system. Palisade is offered in galvanised and or polyester coated finish. Care must be taken when selecting fixing systems, as they range from low to high security. Through visibility is poor and will not work effectively with CCTV cameras. The draconian appearance may not be acceptable to the local community.



Chainlink and welded mesh rolls

A well proven, popular, versatile and easy to erect fence suitable for a wide variety of fencing applications, from simple boundary marker to a permanent secure fence. Smart and attractive appearance providing a high degree of visibility. Routine maintenance programme recommended for both systems.



Expanded metal

A panel fencing system that is available in a galvanised and or polyester coated finish. Offers high levels of rigidity with poor through vision. Care must be taken when used in close proximity to children, as meshes have sharp edges.



Welded mesh panels

The most versatile of all fences, with a system to meet all category ratings. From low height open mesh decorative panels to secure anti-cut, anti-climb systems with fence heights over 3 metres. All systems offer high visibility, particularly suitable to work in conjunction with CCTV systems, and are aesthetically pleasing in appearance with long life and low maintenance.





4 Playground segregation

Playground segregation is normally required within a secure environment to divide a play area into safe areas for different age groups, so a security standard fence is not required. A robust fencing systems of safe construction is normally used.



5 Sports courts

It is essential that the purpose of the sports court is established prior to purchase, the type of sport to be played, local environment, age group and possible community use. The courts must be of a safe construction with no finger traps or protrusions into the court. Gates should ideally open away from the court and be capable of being secured in the open and close positions. Consideration should also be given to wheelchair and emergency vehicle access.



6 School buildings

The fencing system required for the security of school buildings and the contents within (computers, projectors or science laboratory equipment) can depend on the local environment and historical crime in the area. Therefore these fencing system,s can range from category 2 to category 3, medium to high security.

It is important that these fencing systems have a high through vision to enable unauthorised trespassers to be quickly observed. Also the fence should not be of a draconian appearance that may cause offense to local residents.



7 Entry control

Control of pedestrians entering the school grounds and areas within can be achieved by simple swing gates and should permit the safe passage of wheelchairs. However, if required, these gates can be fitted with access control to only allow those authorised to enter. For ease of control and observation the number of vehicular gates required should be kept to a minimum.

Emergency gates fitted with push pad or push bar panic latches are available for areas where the fencing is in close proximity to the school buildings.



Category 1 fences

Genwork recommend the following for use a category one security fencing.

Chain Link fencing

A well proven, popular and versatile fence, chain link will satisfy a wide selection of applications from sports areas to boundary and ant-intruder applications. Available in a height range from 0.9m to 3.6m in both galvanised and plastic coated finishes.



Welded mesh and Fortinet Rolls

Two ranges of welded mesh are available in 50x50mm and 75x25mm mesh sizes, supplied in rolls. They are available galvanised, with or without a PVC coating. They can be erected using steel, concrete or timber posts. Greater rigidity and cut through resistance than chain link fencing. Available in a height range up to 3.0m.



Sentinel railings

The Sentinel railing system from Genwork has the visual appeal of traditional railings. These elegant railing systems are particularly suitable for schools. The Sentinel system is ideal where the emphasis is on protection, safety and demarcation rather than exclusion. There is a choice of different railing styles and six heights, from 1.0 to 2.4m. Bow top options are ideal for use where safety is of paramount importance, for example, the enclosure of children's play areas. Where security and deterrence are required, circular or diamond section straight pales will fit the bill.



Roll Top Panels

The principle feature of this fencing is the unique, safe and user-friendly, closed beam section located at the top and bottom of the panel. With no sharp or raw edges, Roll Top panels are particularly suited to school applications. Available in four standard panel heights from 0.9m to 1.8m, greater heights can be achieved using multiple panels.



Category 2 fences

Genwork recommend the following for use a category two security fencing.

Chain Link fencing

A well proven, popular and versatile fence, chain link will satisfy a wide selection of applications from sports areas to boundary and anti-intruder applications. Available in a height range from 0.9m to 3.6m in both galvanised and plastic coated finishes



Welded mesh and Fortinet Rolls

Two ranges of welded mesh are available in 50x50mm and 75x25mm mesh sizes, supplied in rolls. They are available galvanised, with or without a PVC coating. They can be erected using steel, concrete or timber posts. Greater rigidity and cut through resistance than chain link fencing. Available in a height range up to 3.0m.

Profile® 3D

The ideal solution for most types of boundary and low/medium security applications. Profile 3D is an attractive and cost-effective solution. The panels feature “V” shaped beams at the top, centre and bottom edges, which not only enhance the appearance but also provide rigidity to the panel.



Profile® 3-M

A 3 metre wide panel featuring horizontal beams to enhance the appearance and provide rigidity to the panel. The wider panels result in 20% fewer posts, 20% less concrete and a 20% saving in installation time. A cost-effective welded mesh panel system.

Profile® 2D Super

A heavy gauge welded mesh panel featuring twin 8mm horizontal wires, one positioned on either side of the vertical wires, offering both increased rigidity and resistance to cutting. The open mesh profile is decorative in appearance and allows excellent through vision. Suitable for security applications, offering high resistance to impact and vandalism.



Sentinel railings

The Sentinel railing system from Genwork has the visual appeal of traditional railings. These elegant railing systems are particularly suitable for schools. The Sentinel system is ideal where the emphasis is on protection, safety and demarcation rather than exclusion.

There is a choice of different railing styles and six heights, from 1.0 to 2.4m. Bow top options are ideal for use where safety is of paramount importance, for example, the enclosure of children's play areas. Where security and deterrence are required, circular or diamond section straight pales will fit the bill.



Paladin system

Paladin is the most popular welded mesh fencing system due to its innovative and unique appearance. It combines aesthetic appeal and simple installation with strength and security. The panel is both strong and lightweight and offers resistance to cut through and clear visibility along the fence line. Available in 5 heights from 0.9 to 2.4m, greater heights can be achieved with multiple panels.



SecurPro 2D

Combines high security with aesthetic design. The close welded mesh is anti-climb, anti-cut, finger-proof and toe-proof, whilst providing the lowest level of visual impact to the surroundings. Reinforced with double horizontal wires every 150mm to provide a higher level of rigidity. Systems offer high visibility, particularly suitable to work in conjunction with CCTV systems. Discrete high security perimeter protection for schools.



SecurPro 3D

Combines high security with aesthetic design. The close welded mesh is anti-climb, anti-cut, finger-proof and toe-proof, whilst providing the lowest level of visual impact to the surroundings. Reinforced with horizontal "V" beams to provide high rigidity. Systems offer high visibility, particularly suitable to work in conjunction with CCTV systems. Discrete high security perimeter protection for schools.

Category 3 fences

Genwork recommend the following for use a category three security fencing.

SecurPro®2D

Combines high security with aesthetic design. The close welded mesh is anti-climb, anti-cut, finger-proof and toe-proof, whilst providing the lowest level of visual impact to the surroundings. Reinforced with double horizontal wires every 150mm to provide a higher level of rigidity. Systems offer high visibility, particularly suitable to work in conjunction with CCTV systems. Discrete high security perimeter protection for schools.



SecurPro®3D

Combines high security with aesthetic design. The close welded mesh is anti-climb, anti-cut, finger-proof and toe-proof, whilst providing the lowest level of visual impact to the surroundings. Reinforced with horizontal "V" beams to provide high rigidity. Systems offer high visibility, particularly suitable to work in conjunction with CCTV systems. Discrete high security perimeter protection for schools.



SecurPro® 358

The ultimate system for providing the highest degree of security. The close welded mesh is anti-climb, anti-cut, finger-proof and toe proof, whilst providing the lowest level of visual impact to the surroundings. Systems offer high visibility, particularly suitable for use in conjunction with CCTV cameras. An effective deterrent to intruders. Available in heights from 2.0m to 5.2m.



Access control

Genwork can offer a wide range of access controls, which include:

- single of double swing gates to match our fencing systems
- cantilever sliding gates on a rail for controlling vehicle access
- turnstiles
- lift up car barriers

Further details are given below and on the following pages.

Genamatic sliding gates

For wide gates for vehicle access, Genwork can offer a range of sliding gates. These can be from 3 to 12m wide and slide back along the line of the fence to leave a clear opening.

Sliding gates are suitable where safety and security have priority. Because of their size and weight, sliding gates are usually motorised.





Swing gates

Swing gates are single or double leaf and manually operated. The frame is constructed of square or rectangular tubular steel which is infilled with steel tubing or welded mesh panels to match the fencing system.



Turnstiles

Genwork Turnstiles are a part of the range of products to provide total access control in combination with our fence systems. Operation can be manual, semi-automatic or fully automatic.



Barriers

Automatic and manually operated barriers can be provided up to 9.5m.

The access control can be programmed to suit every project. A range of options are available, including induction loop detection, key switch, RF remote control, card reader, key pad etc.

Access control

Motorised controls

For optimum operation, the motorisation of gates and barriers is integrated into the design at the factory.

The controls are designed to be adapted to the requirements of the customer. These include, remote control, card reader, digital code keypad and speaker phone.



Emergency escape

The single gate is fitted with an electro-magnetic lock that is controlled by the fire alarm - when the alarm sounds, the lock is released.

The double gate is fitted with a push bar for escape in an emergency.



The Genwork advantage for schools



A comprehensive service

Genwork offer an integrated supply chain partnership that covers:

- stockists
- approved contractors
- high quality coatings
- high tech entry control.

Genwork's commitment to service is second to none. Our aim is to provide high quality fencing that is widely available nationally, installed by licensed contractors and has a finish that will provide best value over the long term.

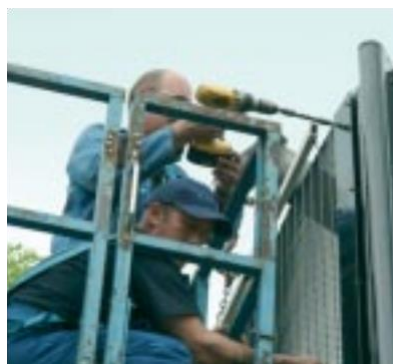
Licensed contractors

Genwork has set up a network of licensed contractors, called Team-net. This provides peace of mind for clients who know that the installer has been fully trained and approved in the installation of their chosen fencing system.

Genwork has a continuous programme of auditing and feedback from clients to ensure standards are maintained.

Guarantee

All Genwork fencing, installed by one of our Team-net contractors comes with the Genwork 10 year guarantee at no extra cost. This covers both the materials used and the installation. The Genwork 10 year guarantee demonstrates our confidence in the quality of our products and a professional audited installation, a confidence you can share in with Genwork.



Quality finishes

Genwork have developed coatings to provide the highest quality finishes for all our products.

All our metal components are galvanised to provide a high level of rust protection. The majority of our products are supplied with a polyester coating.

We believe this attention to detail ensures a long life product that offers the lowest "Life Time Cost".

The photographs below show what you might get with other manufacturers who do not have our commitment to quality.

Typical examples of low quality installation



Metal fencing without a galvanised finish is prone to rusting – resulting in poor appearance and high maintenance costs



Some manufacturers galvanise their fencing for a longer life, but paint straight on top of it – again poor appearance and high maintenance

how it should be done.

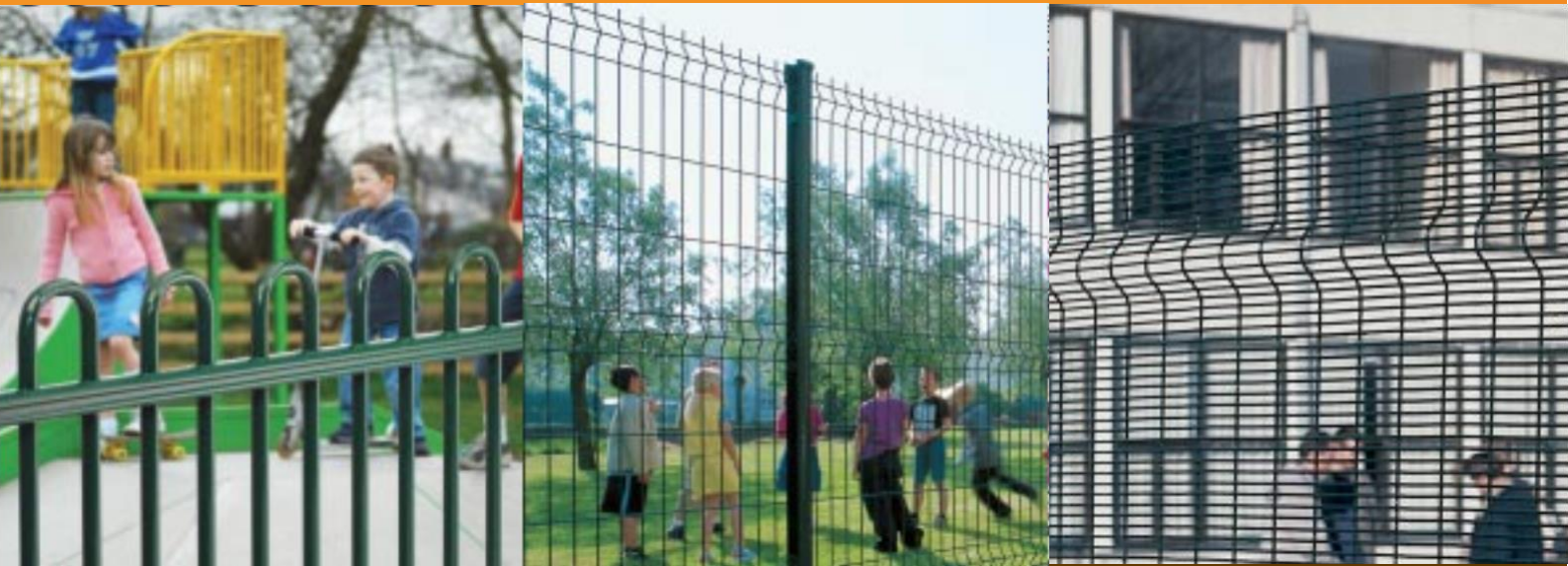


Genwork products are galvanised and polyester coated – great appearance and a long life



Genwork Ltd

PART OF THE BACHE GROUP



The Bache Group is European leader
in physical perimeter fencing systems and access control

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