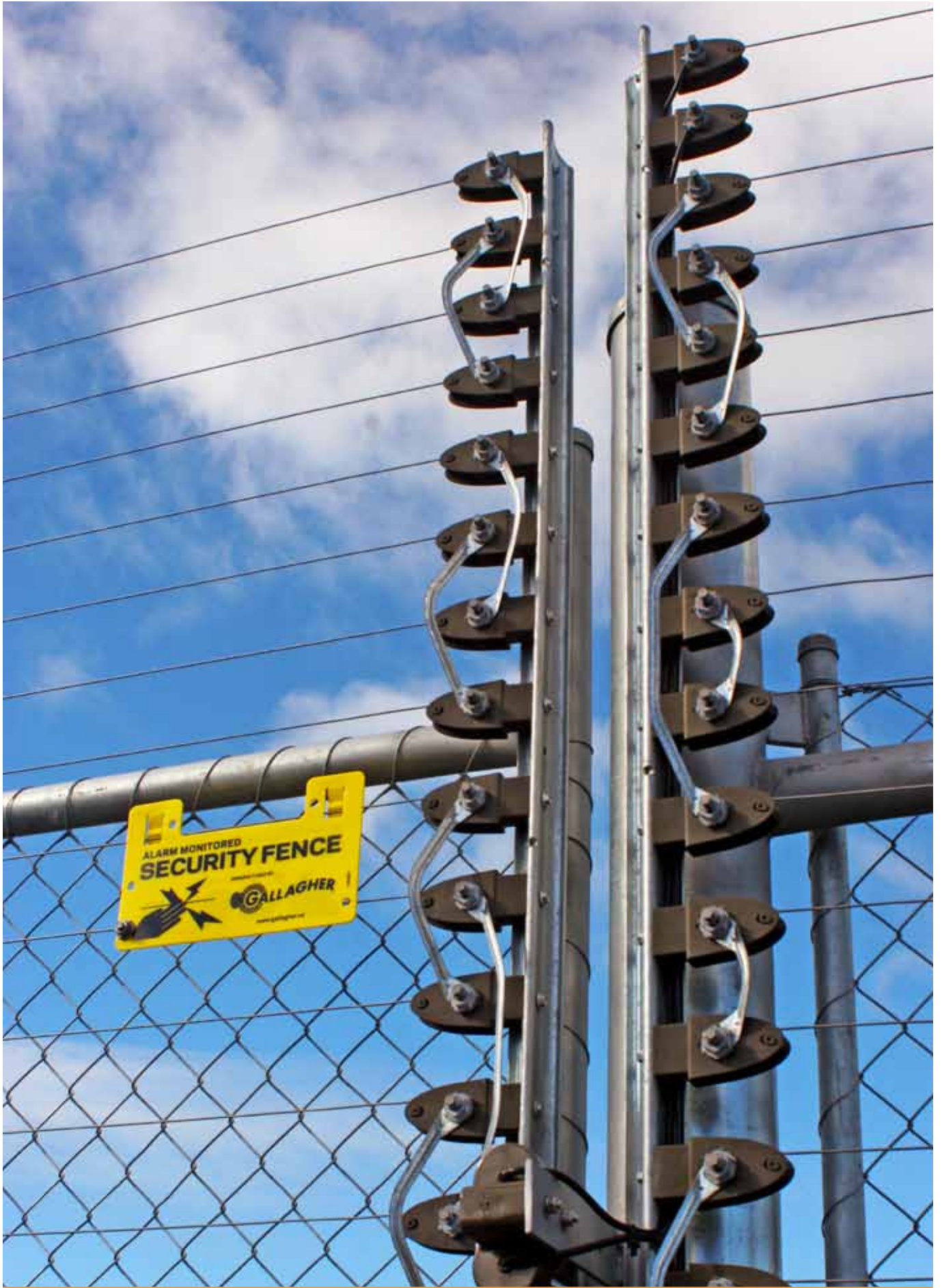


Gallagher Correctional Facilities Solutions

Perimeter fences that deter breaches at all times without false alarms are vital in the corrections industry.





Introducing Gallagher

Gallagher integrates the unique advantages of its advanced perimeter security with the sophisticated integration platform provided by Gallagher Command Centre software. The integrated solution enables sites to manage system-wide security through one management platform, through a single user interface.

SYSTEM FEATURES

Gallagher Perimeter Security System

- > **Active Deterrent** – Incorporating purpose designed electric fences, Gallagher perimeter systems actively deter attempts to breach the perimeter by delivering a safe, non-lethal shock to the would-be intruder
- > **Passive Deterrent** – Incorporating Gallagher's 3 Zone Fence Integrity Monitor enables active receipt of alarms 24/7 even when the high voltage is not turned on during business hours
- > **Detection** – Attempts to breach the fence are detected and generate alarms providing information for an appropriate response
- > **Alert** – Intruder alarms are generated, showing the zone under attack with full video available

Access control, building security, and facilities management system

Gallagher allows integration of any combination of the following:

- > Perimeter security
- > Electronic access control with photo ID
- > Intruder security alarms, with full monitoring functionality
- > Interfaces to biometric systems
- > Interfaces to CCTV and IP based video imaging systems
- > Interfaces for elevator and building management systems such as air-conditioning and lighting
- > Interfaces for sharing cardholder data with HR and other systems



PERIMETER SOLUTIONS FOR CORRECTIONAL FACILITIES

Correctional facilities are challenged to protect the public, protect their staff, and to ensure a safe, secure and humane environment for offenders. Gallagher perimeter security systems provide the perimeter solution to meet these requirements with a complete deter and detect solution 24 hours a day, 7 days a week. History shows that correctional facilities are only ever as secure as their perimeter.

The perimeter security system needs to detect unauthorised entry or exit into defined areas and deter inmates from violating the fence. The system must be highly reliable, difficult to bypass and not generate false alarms, even in adverse conditions.

To achieve effective perimeter security, correctional institutions in the United States do not usually rely on a single perimeter security system. On average each facility will have four systems, including perimeter patrols, towers, alarm systems, video cameras and typically two fences. Technologies are often paired to ensure that any weakness in one technology is compensated for by another.

Every correctional facility has an alarm system. Traditionally false and nuisance alarms have been a problem in the corrections industry. False alarms are generally due to equipment malfunction, while nuisance alarms can be triggered by lightning, wind, power surges, snow and hail.

The requirements for the corrections industry are highly specialized and complex. Perimeter security systems from Gallagher provide a perimeter fencing solution for the corrections industry which:

- > Deters attack through sending a regulated electric pulse around the system. These pulses give a short, but safe shock, making it almost impossible to climb the fence
- > Intelligently detects attack, differentiating between serious breaches of the fence and disturbances caused by wildlife, birds or weather conditions
- > Does not generate false alarms and is unaffected by the environment in which it operates
- > Meets stringent safety criteria, providing a humane solution

- > Is easy to maintain. Gallagher Channel Partners can provide maintenance agreements ensuring the fence is operating in peak condition
- > Is cost effective



CONSTRUCTION

Gallagher's perimeter security systems are specifically configured for the corrections industry. Each wire in the fence is monitored with the electrical pulses that are sent around the system.

The fence is zoned both horizontally and vertically which enables the detection of people attempting to climb over or through the fence. When a fence zone is attacked, the alarm will activate for that zone allowing guards to immediately focus their attention on the section of the fence being attacked. Earth monitoring is also used, therefore every wire on the fence is monitored against attack.

The construction of this fence is rugged, yet quick to repair, with features such as anti-climb insulators that are designed to break and cause an alarm in the case of a person trying to climb the fence.

A spokesperson of Michigan Department of Corrections says he was "most impressed with the electric fence's ability to be immediately placed back into service after an escape attempt". "Replacement of insulators and reactivation of the fence is easily accomplished by non-technical staff, requiring only minutes for a large section of the fence."

UNAFFECTED BY THE ENVIRONMENT

The system has shown tremendous success in harsh weather conditions. The system is unaffected by wind, rain, sleet, fog and birds. Adverse environmental conditions such as heavy snow does not trigger alarms.

At some sites whiteouts can occur to the extent where it becomes difficult to see your hand in front of your face. In these situations it is difficult to monitor traditional barbed wire or chain mesh fences with guards or cameras due to the reduced visibility. With a Gallagher system, prisoners are not able to use the cover of adverse weather to escape or attack the fence undetected.

The ability of the Gallagher system to monitor itself decreases the number of guard towers needed in correctional facilities. Fox Lake Correctional Facility of Wisconsin, USA has found that "the fence performs a valuable function in securing a remote section of the perimeter fence that is not easily seen from the guard towers, especially in rain, snow and fog".

"The fence secures a remote section of the perimeter that is not so easily seen from the guard towers."



EFFECTIVE AND EFFICIENT

As well as being extremely efficient in securing the perimeter of corrections facilities, the Gallagher system is also cost effective in both the short and long term.

The rising crime rate in the United States is generating enormous pressures on correctional systems. This has created strong impetus for cost containment measures. Guard towers are used extensively within correctional facilities, incurring large expenditure on manpower and capital outlay. These costs can be minimized through utilizing effective and efficient Gallagher state-of-the-art technology.

Installing the Gallagher perimeter security system typically allows a correctional institutions to operate with one or two guard towers less without any loss in monitoring ability. This can save millions of dollars per tower and also eliminates the ongoing salary costs of tower guards.

Providing effective and efficient perimeter solutions for the corrections industry, Gallagher has installed perimeter fences in many correctional institutions including; Fox Lake, Wisconsin; Brooks Correctional Centre, Michigan; Old West Virginia Penitentiary, West Virginia; Westbrook Detention Centre, Wacol Detention Centre, Long Bag Prison, Lithgow High Security Prison, Maitland Prison and Brisbane Women's Prison.

Gallagher already secures prisons and detention centres in India, Thailand, Malaysia, USA, Sweden, Netherlands, Mauritius, Australia and New Zealand.

Gallagher Correctional Facilities

Perimeter Applications



D21 Disturbance Sensor

Intelligent Intrusion detection

INTRODUCTION

A D21 Disturbance Sensor measures the kinetic energy released within a structure when it is disturbed and signals an alarm event when certain parameters are exceeded.

In addition to the sensor's disturbance measuring properties, this affordable sensor has a built-in tilt measuring capability that monitors any angular change in position of the sensor body. D21 Sensors will therefore guard against physical intrusion attempts or the moving of valuable assets. D21 Sensors can be applied both indoors and outdoors.

An important feature of the D21 Sensor is that the alarm processing software will reject environmental conditions such as changes in temperatures and disturbances caused by wind and rain. Detection parameters can be set to achieve the best balance between probability of detection and nuisance alarms.

WHAT DOES THE D21 SENSOR OFFER:

- > Retrofit detection solution
- > Cost effective
- > Detection parameter control on individual sensors
- > High integrity detection
- > Low nuisance alarm rates
- > Unmatched sensitivity
- > Low maintenance
- > Simple installation
- > Highly configurable
- > Uniquely identifiable sensors
- > Uses pre-programmed behavioral profiles to discriminate between alarm and non-alarm events

APPLICATIONS

The sensor can be used to monitor any kind of structure that transmits kinetic energy. The application of disturbance sensors is not limited to perimeter structures, but can be used for burglary and roof detection, etc. The sensor ensures the integrity of barriers and delay systems by allowing a timely response to intrusion attempts.

D21 Disturbance Sensors can be applied to ensure detection when intruders attempt to breach any of the following:

- > Fences
- > Walls
- > Cladding
- > Safes
- > Vaults
- > Rooftops
- > Ceilings
- > Statues
- > Paintings

In addition, D21 Disturbance Sensors can be applied to the following fence structures:

- > Chainlink mesh
- > Diamond mesh
- > Welded mesh
- > Razor mesh
- > Palisade fences
- > Steel gates
- > Balustrades

Typical disturbances that can be measured are sawing, unbolting of panels, shaking, climbing, for example.

Gallagher

Experience in the Corrections Industry

SERVICES PROVIDED BY GALLAGHER	SITE	TECHNOLOGIES USED	TOTAL PERIMETER LENGTH
SOUTH AFRICA			
Design and supply of perimeter security systems	Correctional facility	Kinematic detection, strain detection and integrated perimeter security system	700m
Design, supply, installation, commissioning of perimeter security systems	Correctional facilities	Short circuit detection with fence electrification, strain detection and integrated perimeter security system	3500m
Design and supply of perimeter security systems	Correctional facility	Short circuit detection with fence electrification kinematic detection, strain detection and integrated perimeter security system	1600m
Design and supply of perimeter security systems	Correctional facility	Strain detection and integrated perimeter security system	1600m
Design and supply of perimeter security systems	Correctional facility	Kinematic detection, strain detection and integrated perimeter security system	1100m
Design and supply of perimeter security systems	Correctional facility	Strain detection and integrated perimeter security system	1100m
Design and supply of perimeter security systems	Correctional facility	Strain detection and integrated perimeter security system	1400m
Design and supply of perimeter security systems	Correctional facility	Strain detection and integrated perimeter security system	1700m
Design and supply of perimeter security systems	47 Correctional facilities	Kinematic detection, strain detection and integrated perimeter security system	53000m
Design and supply of perimeter security systems	Correctional facility	Strain detection and integrated perimeter security system	1300m
Design and supply of perimeter security systems	Correctional facility	Kinematic detection, strain detection and integrated perimeter security system	1100m
Design and supply of perimeter security systems	Correctional facility	Kinematic detection, strain detection and integrated perimeter security system	2300m
USA			
Design, supply, installation, commissioning of perimeter security systems	Correctional facility	Short circuit detection with fence electrification, strain detection and integrated perimeter security system	1300m
Design and supply of perimeter security systems	Correctional facility	Strain detection and integrated perimeter security system	1100m
Design and supply of perimeter security systems	Correctional facility	Strain detection and integrated perimeter security system	1100m



About Gallagher

Established in 1938, Gallagher Group Ltd is the operating company for an international organization which encompasses research and development, manufacturing and marketing of its security, fuel pump and animal management systems.

ABOUT GALLAGHER

Worldwide, Gallagher has a reputation for supplying state-of-the-art, reliable solutions to address the most significant issues facing organisations large and small:

- › Security and risk management
- › Personnel workflow
- › Business continuity

Drawing on its competencies of security knowledge and expertise, secure data management and systems integration, Gallagher's offering is expanding. Gallagher is moving towards a suite of systems that can be fully integrated and securely managed through allocated

privileges to authorised users. Gallagher prides itself in its agility and dedication to delivering innovative and imaginative security solutions. Gallagher's goal is to redefine what's possible for its customers.

PROFESSIONAL SERVICES

Gallagher provides a range of professional services and welcomes the opportunity to work with customers and Certified Channel Partners to add value to the implementation of its systems on customer sites. Examples of services Gallagher can provide include:

- › Project management - typically for large, global customers
- › Strategic planning and migration paths

- planning for future requirements
- › Requirements analysis and customizations – changes required to Gallagher developed software to meet the customer's requirements
- › Integration – development of middleware to provide an integration between two or more systems
- › Database conversion and preparation
- › Configuration and advanced system programming
- › System audit
- › Preparation and implementation of software upgrades

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