FenceSecure
Perimeter Intrusion Detection System

Harper Chalice
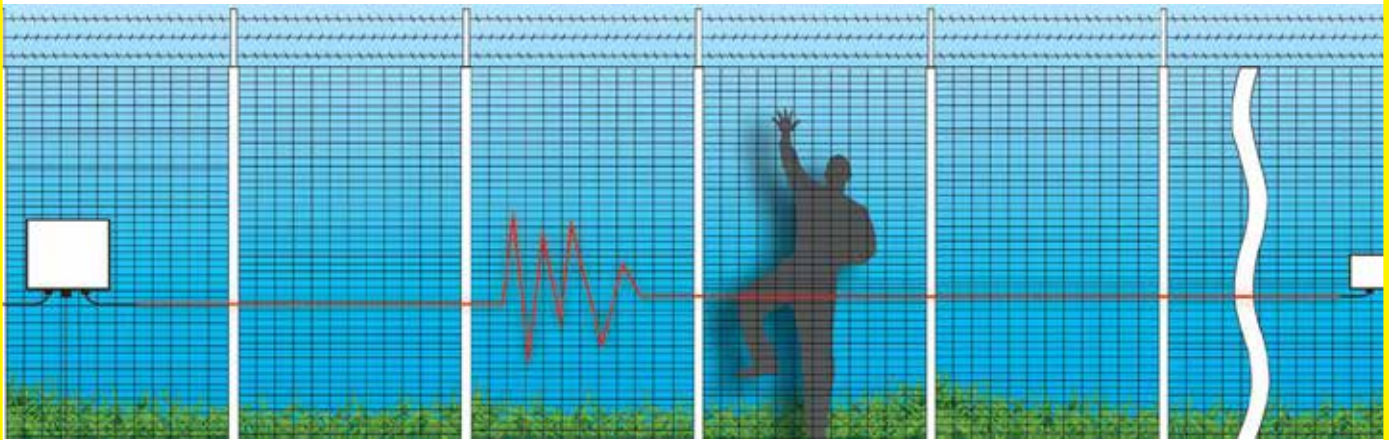Integrated Perimeter Security Specialists

FenceSecure

FenceSecure is a barrier mounted Perimeter Intrusion Detection System (PIDs). Designed to detect attempts to cut, climb or penetrate the fence on which it is mounted and provide early warning of the attempted intrusion. This system can be used on virtually all types of fencing fabric including chain link, welded mesh and palisade. FenceSecure has no topographical limitations. Depending on the fencing type, and to obtain optimum performance, FenceSecure is installed and set up to match with the detection characteristics required for the fence type being protected.

How FenceSecure works

VibeWire piezoelectric sensor cable is applied to the fabric or structure being protected. Audible signals and vibrations generated during an attack are transmitted to the FenceSecure Seismic Analyser for analysis and detection. The analyser detection channels are programmed to identify the signals created by noises and vibrations during intrusion attempts.

VibeWire Sensor cable

Various models of VibeWire are available to cater for different types of application and risk. A full range of fixing accessories is available for fixing VibeWire to various forms of fabric and structures.

FenceSecure

A complete range of installation components is available for the installation of FenceSecure onto all types of security fences. Detection zones are planned and installed in accordance with site specific operational requirements and/or the CCTV surveillance specification requirements for local or remote monitoring of the protected perimeter.

FenceSecure

FenceSecure features:

- CPNI approved for Government use
- System uses a piezoelectric 3.5mm sensor cable, robust & less prone to damage with linear detection across entire zone length.
- The sensor cable has a 5mm minimum bend radius
- A modular system with an increased system resilience with no single point of failure.
- Piezoelectric Detection based on Microphonic "listening" rather than movement, providing a very low false alarm rate particularly in environments where winds can be a problem. Movement in the fence fabric alone will not cause alarms.
- Power Consumption of 80mA at 12V providing a reduced carbon footprint
- Fault tolerant bi-directional fault tolerant data loop provided by the SecureBus data network.

Setting the standard

We are the UK's leading manufacturers and suppliers of PIDS systems and Electrified Perimeter Intrusion Detection systems. Our range of perimeter security systems is continually evaluated by leading authorities and test houses and in independent appraisals by government departments. Approved for UK Government use, for details contact CPNI.
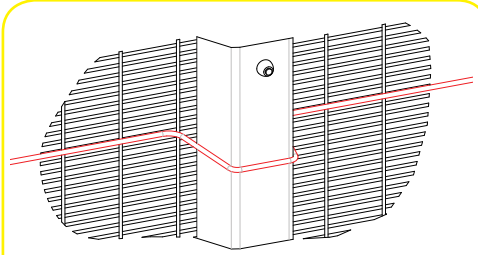
Quality Assured - British Manufacturer

To Ensure that we maintain the highest standards of quality, all of the FenceSecure system components are manufactured in the UK. This gives us total control on quality as well as lead times. Ensuring the highest standards of quality and service.
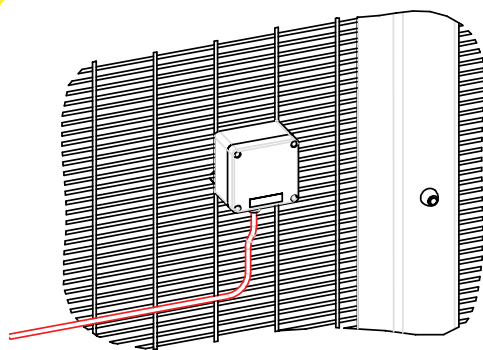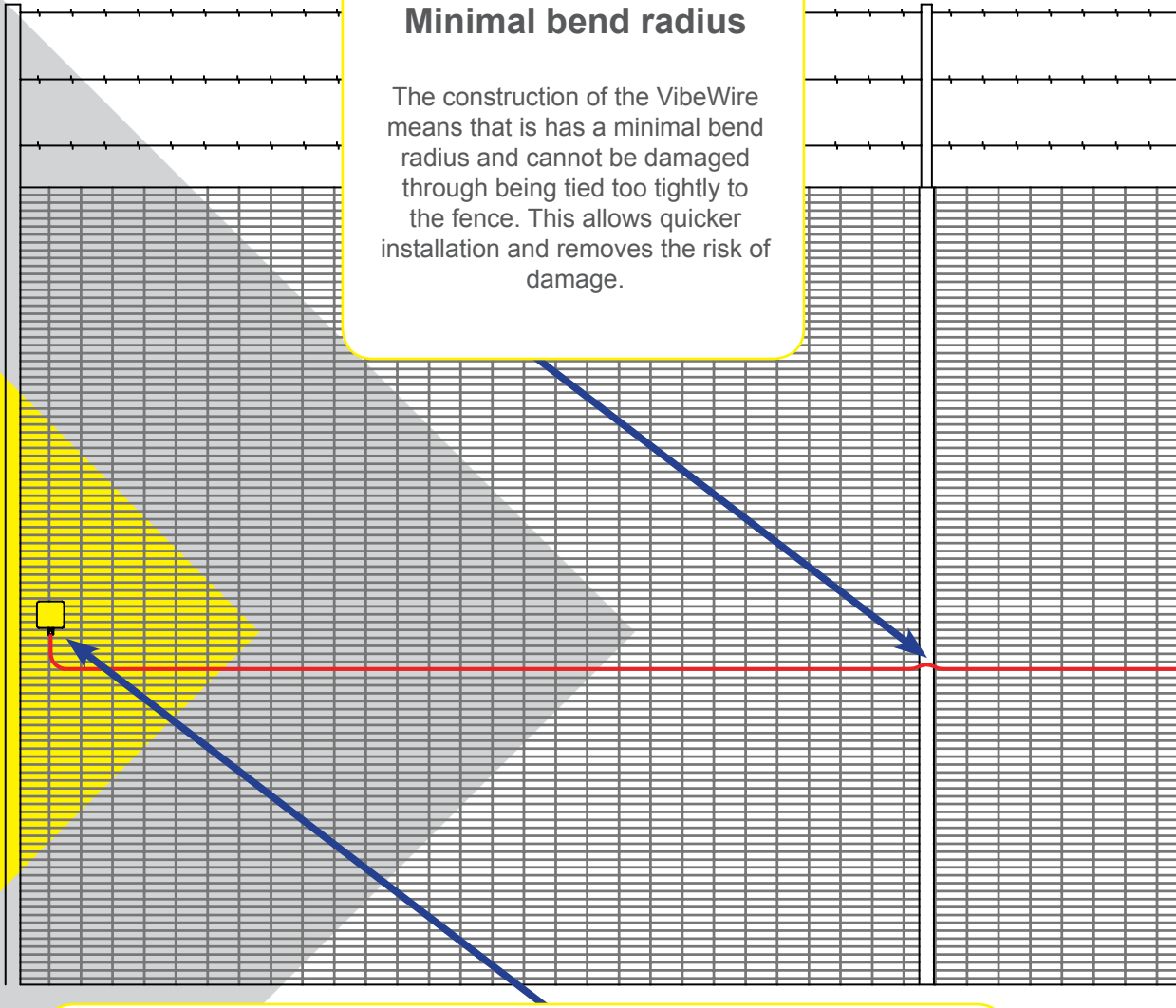
Commissioning and Certification

The FenceSecure System has been designed to be simple to install, set up and commission with limited training and assistance. By making the intelligence of the system automatic, the adjsutments required are minimal and easy to understand. Total manufacture support is available with both remote and on site assistance available if and when required.
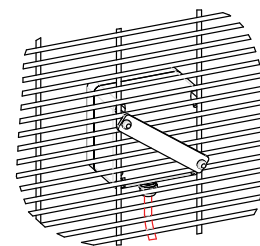
FenceSecure

Minimal bend radius

The construction of the VibeWire means that is has a minimal bend radius and cannot be damaged through being tied too tightly to the fence. This allows quicker installation and removes the risk of damage.
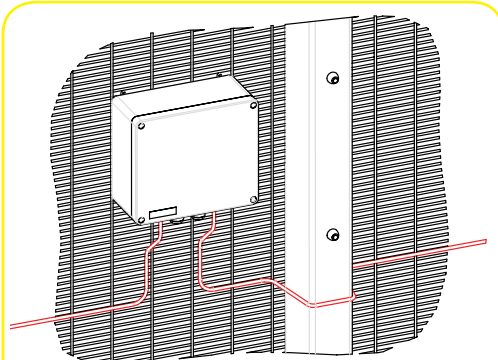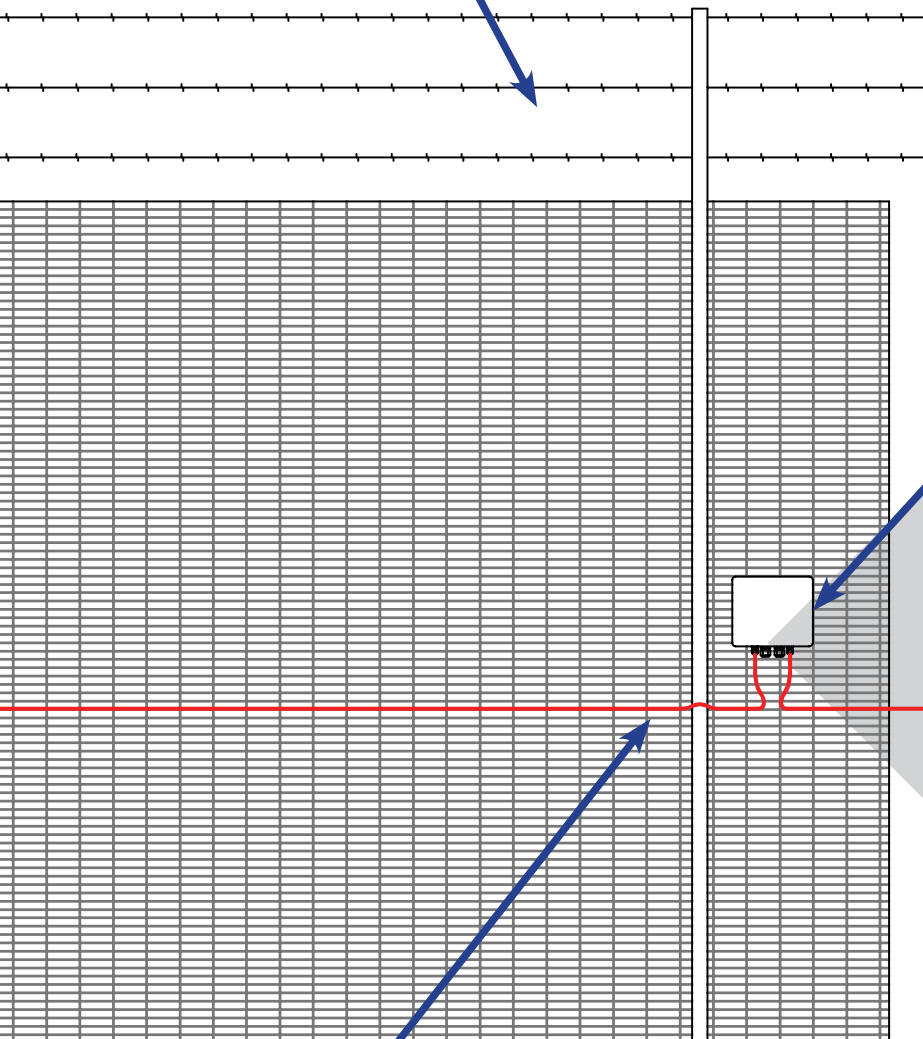
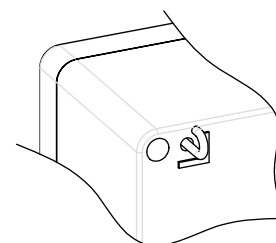### SA200 End of Line Unit Mounted On The Fence Fabric

SA200 End of Line Unit Mounting Method

Various brackets & fixings can be used to attach the EOL to the fence fabric, the above shows the SA200FB fence bracket commonly used with mesh fences.
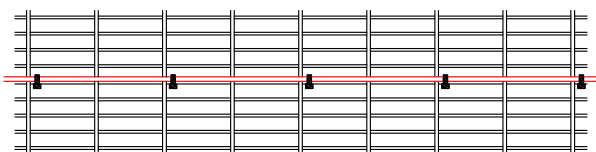
FenceSecure

SA2000 Dual Zone
Device Mounted on the
Fence

SA2000 Dual Zone
Device Mounting
Method

Various brackets & fixings can
be used to attach the EOL to the
fence fabric, the above shows the
SA2000HB hook bolt commonly
used with mesh fences.

The VW205 VibeWire is attached
to the fence fabric every 150-
200mm using VF300 Sensor ties

FenceSecure

Proven Design

The FenceSecure solution has been manufactured and deployed by Harper Chalice for over 20 Years. It has seen substantial development and improvements during this time but has a legacy of being a proven solution used on many high security sites.

The system has met and exceeded the required standards for several independent tests by UK home Office and other Government tests for reliability, false alarms and detection. Approved for use on CNI and HM Prison sites, the system provides the highest standards of security and guaranteed performance.

Water Treatment Works

The FenceSecure solution has been deployed on many water assets to detect penetration or climb over attacks for these high security sites. The solution is the chosen and specified systems for several Water utilities companies.

One particular utility company supplies high quality drinking water to approximately 1.3m people and approximately 35,000 commercial customers over 1,500 square km. They required protection of an inlet reservoir that needed to be a flexible and easily installed solution but would also provide detection of intrusion attempts. Due to the exposed location a system that would provide exceptionally low false alarms was required – FenceSecure was selected as the best solution.

The system has upper and lower independent detection zones and was installed within a stainless steel sheath for added protection. Utilising the Harper Chalice SecureBus network, alarms are transmitted to a central Security Management System (SMS) allowing the user to have complete control and monitoring of the system as well as full integration into the existing CCTV.

"We have used Harper Chalice PIDs on several sites across our estate and they have performed really well with low false alarm rates. This solutions provides exceptional security."

Head of Security, South Staffs Water.

FenceSecure

Other Case Studies & Applications

Airports

MOD

Prisons

Ports & Terminals

Telecoms

Pharmaceuticals

Water Treatment Works

Data Centres

Manufacturing Facility

Harper Chalice

8 Binns Close
Coventry
CV4 9TB
United Kingdom

(t): +44 (0)24 7642 1300
(f): +44 (0)24 7642 1309
sales@harperchalice.com

20180110