Public Spaces and Public Buildings

Perimeter fencing solutions for the protection of public properties
1. Security of public spaces and buildings

This brochure presents fencing solutions for public spaces and buildings:

- embassies
- court buildings
- libraries
- town halls
- schools
- parks
- hospitals
- shopping centres
- playgrounds
- recreational areas
- theme parks
- offices
- lifestyle estates
- museums
Securing Public Spaces and Public Buildings

Schools, parks, embassies, playgrounds... such facilities have special requirements with regard to efficient security. They have to be accessible to public but they also need to be protected against vandalism or external violence. Often aesthetic properties of the fence are important to fit with the architectural concept of the building.

Betafence offers a total package of integrated solutions for the specific security needs of public spaces and public buildings. Highest quality welded panel fences combined with a wide range of gates, and posts with necessary attention paid to the design. Betafence security systems also comprise electronic components for detection.
2. Solutions in relation to specific needs

ZONE A: school entrance

The entrance to the site determines the overall impression it gives which is important for a school. The fencing must therefore be attractive and secure. Properties that reflect the school’s image. It must also have functional qualities (stopping unauthorised people from entering the school), without detracting from the surroundings.

ZONE B: school building

It is important that school children are able to move within the entire school compound with safety. The fencing ensures that they do not accidentally stray onto the road. The fencing must always offer good visibility through it so that any intruders will be noticed quickly. In a built-up area the fence must have a transparant look.
Different security requirements exist for different zones on a public site. It is possible to establish the most appropriate fencing system for each area by identifying these different zones. This example uses a school to demonstrate this.

ZONE C: bicycle park

The bicycle park must be protected from theft and vandalism. It must also be easily accessible, so that large groups of cyclists can enter or leave the park at the same time.

The fencing must be and look secure so that people with bad intentions are immediately discouraged. It is preferable to choose a system that is hard to cut through or damage.

ZONE D: play zone

The protection of children is essential, but a play area may not look like a ‘prison’. That is why a fence of low to medium height is chosen here. Visibility through the fence is essential to make supervision possible.

The fence must be completely safe and the children should not hurt or trap themselves on it. The entrances are protected by gates.
3. The functionalities of a fence

Fences can meet various needs. Betafence will propose the most suitable system based on the specific situation, the security level required and a risk assessment. We distinguish 5 functionalities here:

**Demarcation**
- Boundary marking
- Low dissuading or delaying effect
- Generally low height fences

**Dissuasion**
- Boundary crossing prevention
- Robust appearance
- Physical obstacle
- Dissuasive effect
3. The functionalities of a fence

- Hinder entry
- Security fencing
- Reduces considerably the time to cross the boundary

<table>
<thead>
<tr>
<th>fencing</th>
<th>delay</th>
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<tbody>
<tr>
<td>chainlink</td>
<td>1</td>
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<tr>
<td>welded fence on rolls</td>
<td>12*</td>
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<tr>
<td>Betafence Securifor®</td>
<td>44*</td>
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<tr>
<td>Betafence Securifor® 358</td>
<td>72*</td>
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* times more than chainlink

- Deter
- Design
- Access control

- Importance of image
- Architectural extension of the building or site

- Controlled entry of the site
- Active security
- Detection, visual monitoring
- Deterrent effect
4.1 Functionality: Demarcation

Boschendal Wine Estate - Cape Town - Fortinet® Medium

Simola Golf Estate - Knysna - Fortinet® Medium

Fernwood Lifestyle Estate - Knysna - Pantanet® Protect
4.2 Functionality: Dissuasion
The owner was looking for a fence that matched the building’s shape and thereby offered an aesthetic improvement. Important additional criteria were durability and corrosion resistance. Betafence Nylofor® 3D fence was chosen. Decisive factors in this choice were the aesthetic properties of Nylofor® 3D along with the security this fencing offers. Other factors were the short delivery time, the simple installation and the guarantee.

Since May 2004 the Nylofor® 3D fence surrounds the Olympic Centre covering a length of 700 meters. Betafence Robusta turnstiles secure the entrance. The Polish president Aleksander Kwaniewski officially opened the centre and… found it magnificent!
Bidprop Offices - Cape Town - Securifor® 3D

Maritime Museum - Durban - Securifor®

King Shaka International Airport - Durban - Betaview®
Case study: Green Point Park at Cape Town Stadium

Betafence as the protection of a magical place

Along with the upgrade of Cape Town Stadium for the FIFA World Cup, Green Point Park surrounding the stadium also benefitted from a major upgrade. The entire precinct needed to be fenced off in order to improve security and crowd control during the 2010 World Cup tournament. Security, visibility and aesthetics were the key factors when deciding on the fencing for the park facilities, which is used for recreation as well as golf. The 5.5 kilometre long robust Nylofor® 3MG fence in anthracite grey perfectly matches the requirements. The apertures are just small enough to prevent golf balls from penetrating the fence and so it is perfectly suited for this application.
4.4 Functionality: Design

Botanic Building Brussels – Belgium – Securifor®

Recreation centre Bowling Blankenberge – Belgium – Securifor® 2D

Interchange railway station Mawson – South Africa – Securifor®
The innovative use of the mesh to form part of the walkways at the entrance as well as the parking area window grids elevates the overall design to a new level of aesthetics, combining architectural “chic” with practicality and security. The unique use of the Betafence product can be accredited to the OVP Architect team based in Cape Town who decided that security and functionality need not negate on aesthetic design and so formulated a world-class design.

The dominant aspect for the security of the entrances to Cape Town Stadium was the design of a total solution, giving a perfect answer to the specific requirements of the project, balancing visibility and aesthetic design with stadium perimeter protection. The product supplied was the unique vandal and climb proof 358 Dublo® mesh with Zincalu Super coating.

Betafence puts the Cape Town Stadium on the grid

Case study: Entrances and Parkade Window Grids
## Project description

### What
- defining the specific needs - preferably from the very earliest stage
- developing the optimum total solution with a view to functionality, design and choice of materials and integration of detection systems
- defining possible bottlenecks

### How
- risk assessment
- professional project and engineering team
- communication and interaction with the end user

### Result
- defining the security levels and the most appropriate solution

## Tailormade development

### What
- developing tailormade solutions based on a total approach

### How
- knowledge of local customs via local partners
- communication and interaction with the end user and co-contractors
- integration of all the necessary components: fences, gates, access control, detection, cameras, electronic components, software, etc.

### Result
- Careful customer guidance and follow-up using of all the skills within the Betafence organisation: engineering, sales, production, quality, logistics.
- Offering the optimal solution
### Production
- Internal project management: order handling, production, quality, delivery
- Large production capacity & industrial know-how
- Strict quality standards

### Professional Installation
- Perfect installation with attention to specific factors for each situation
- Technical support by Betafence for the installation in large projects
- Network of professional installers
- Training of partners
- Detailed installation manuals
- On-site inspection

### After Sales Service
- Quick and efficient service in the event of problems (vandalism, improper use, accident, etc.)
- Guarantee on product (see p. 17).
- Via top performing quality department
- On-site assistance in the event of problems

### Well Prepared Total Solution
- Guarantee on Betafence fences (see p. 17).
- The strength and reaction speed of a market leader.
Quality: an extremely concrete concept

Due to the strength of the group with a worldwide presence and technological lead, Betafence can invest in total quality in all stages of the production process.

The ISO-9001 certificate (held in all factories) guarantees that our customers may always be certain of the highest quality of the systems supplied.

How is this quality controlled by Betafence?

The product quality is constantly evaluated. Corrosion resistance tests according to SANS10244-2: 2004 and SABS 105-B04 give an indication of the lifetime in aggressive environments:

- salt spray test: 720 hours
- Kestemich test (SO₂ test): acid rain

QUV-tests simulate the resistance to deterioration due to sunlight, humidity and temperature.

All Betafence products comply with the South African standards.

How is this quality made concrete by Betafence?

Betafence gives a 10 year guarantee against corrosion on all its professional ranges (panels – posts – gates). This guarantee is valid for systems installed by the professional Betafence network.
The Betafence ten year guarantee is granted on request for all special projects under the following terms and conditions:

- the installation is exclusively realised with Betafence products
- the distance from the coast must be at least 500 metres

Special conditions for projects at less than 500 metres from the coast:
- on request products are produced and delivered according to adapted specifications

The reinstallation costs are not included in the standard guarantee.

Detailed terms and conditions are available on request.
Global Reach – Local Support

Betafence South Africa (Pty) Ltd is part of the largest and most universal perimeter fencing manufacturer and supplier, Betafence NV - the world leader in fencing solutions for over 127 years.

Key Statistics:

• 1st Position • More than 127 Years of excellence • R5 Billion turnover • 2000 Employees
• Represented in 90 countries • 25 Sales offices & agencies • 14 Plants world wide • ISO-9001 Certified

We fence the world twice annually!

Extensive perimeter security solutions and bespoke designs for a wide range of applications:

• High security solutions for: prisons, public utilities, government, military, schools, oil refineries, borders and all key point installations
• Versatile fencing solutions for: commercial; industrial, educational, public and sport facilities.
• A range of solutions to the golf & lifestyle; residential, recreational as well as agricultural markets.
Betafence is the worldwide leader in physical fencing systems and access control.

All Betafence company and product names are trademarks of Betafence Holding.

Under reserve of changes to the range and products.

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