

## Vehicle Barriers



### Excerpt International Reference list

## Fixed Boat Protection Barrier

Location: USA  
System: SATURN Net  
Installation: 2005/2006

Fixed marine security barriers have been installed in order to protect critical bridge support structures from terrorist attacks. The high energy resistant Geobruigg security net is constructed of all stainless components.





## Fixed Boat Protection Barrier

Country: Persian Gulf  
System: SATURN Net  
Installation: 2006/2007

A fixed boat protection barrier was installed to secure the site against possible terrorist attacks. This protection net system was made from stainless steel parts only.



## Folson Dam

Location: USA  
System: MAXX Net  
Installation: 2006

To secure a dam, Geobruigg MAXX net was installed on a floating waterside barrier. The partnership of Geobruigg materials science and Harbor Offshore Port Security Barrier design and installation experience ensures the highest level of waterside security against terrorist attacks.



## Mobile Maritime Barrier

Location: Pascagoula MS, USA  
System: **Port Security Barrier**  
- PSB  
**Fixed Security Barrier**  
- FSB  
Installation: 2007

In order to develop new offshore barrier systems and validate existing ones, full-scale boat impact tests were carried out near Pascagoula, Mississippi, USA in May 2007. The main objective was to carry out tests as realistic as possible.

The results are totally new FSB and PSB barriers which can be adapted to almost every custom requirement and will be in use at ports, oil platforms and different other locations.





## Fixed Vehicle Barrier

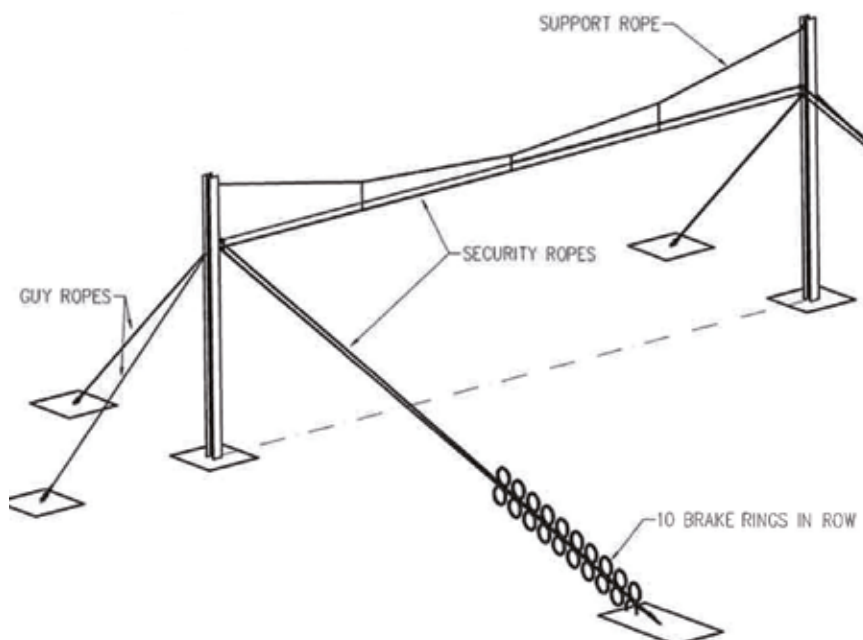
Location: Yverdon, Switzerland  
System: Fix Installed Vehicle Barrier  
Installation: 2005

In order to stop vehicles from entering a secured area, Geobruigg installed a fixed vehicle barrier. The whole vehicle barrier can be lifted to grant access.

The barrier consists of a SATURN ring net combined with brake rings to absorb the energy of an impact.

## Safety Portal

Location: Motorway, Switzerland  
System: Security ropes with brake rings



Due to the planned construction works of a new bridge on the autobahn connecting Winterthur and Schaffhausen, the passing height was reduced to 4.10m.

Over the height limit vehicles with a total weight of 40 tons and 80 km/h had to be stopped. With the Geobruigg solution, an energy of almost 10'000 kJ can be absorbed during an impact.

The installed system secured more than once the workers and the scaffolding.

## Steel rope barrier

Location: Schweinfurt,  
Germany

Installation: 2008

The steel rope barrier serves to protect a military installation in Schweinfurt by stopping vehicles which have broken through the fence. It is constructed of steel section posts driven into the ground, attached to which are steel ropes which absorb the energy of an impact via the braking elements.





## Mobile Barrier Test

Location: Phoenix Arizona,  
USA

System: MAXX Net

Installation: 2007

In order to develop new mobile barrier systems, full-scale impact tests were carried out in Phoenix, Arizona, USA in 2007. The main objective was to carry out tests as realistic as possible.

The results proved that with our lightweight structure, vehicles traveling with 60km/h and 5'000 kg can be stopped without heavy damage to the barrier.

A great success is also that the vehicles will be stopped without deadly consequences for the vehicle passengers. After an impact they can be arrested and questioned.

The mobile barrier is lightweight and easy to install. Within hours an effective barrier, for example, perimeter for military camps and road blocks, can be installed.





## **Net applications**

**Geobrugg Boat Barriers**

**Geobrugg Debris Fence**

**FENCEBOX® roll-away fence system**

**LASSO Light Armor System**

**ABOXX Tie bar protection**

## **Geobrugg protects people and infrastructures**

It is the task of our engineers (and partners) to analyze the problem together with you in detail and then, together with local consultants, to present solutions. Painstaking planning is not the only thing you can expect from us, however; since we have our own production plants on four continents, we can offer not only short delivery paths and times, but also optimal local customer service. With a view towards a trouble-free execution, we deliver pre-assembled and clearly identified system components right to the construction site. There we provide support, if desired, including technical support – from installation right on up until acceptance of the structure.



### **Geobrugg AG**

Security Engineering  
Aachstrasse 11 • CH-8590 Romanshorn • Switzerland  
Tel. +41 71 466 81 55 • Fax +41 71 466 81 50  
www.geobrugg.com • info@geobrugg.com