AFSLUITINGEN POORTEN
NOYEZ
ZONNEBEKE 051 77 90 09

elkosta Bollards

High security with blocking effect

elkosta offers from its bollard product family a wide range of solutions for entries, where pedestrians may enter unhindered but vehicle traffic is to be stopped. Due to their attractive designs the bollards can be used in inner city surroundings for city security and traffic management. Applications can range from temporary closing of city centres, but still allowing vehicles with permission to pass, to real estate properties with high security needs. elkosta products are widely used for military sites, governmental buildings, embassies, banks and city centres.

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elkosta PERIMETER PROTECTION

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High Security with blocking effect

Crash bollards share a rigid steel tube as blocking element and are available in different sizes. The lowered bollards adhere to bridge class 60, so even the heaviest wheeled vehicles can drive over them safely. All movable bollards are equipped with an integrated hydraulic drive. The advantages of this drive technology are maximum power transmission and working reliability under most adverse weather conditions. During power failure the bollards can be lowered manually. The blocking width can be varied by the number of bollards in a row. Up to five bollards can be operated with one common control unit.

Advantages of the elkosta bollard

- Short operating time
- Variable blocking width
- Operation of up to five bollards with one common control unit
- Stable construction, all basic parts made of steel with high tensile strength
- Easy assembly complete with guide rails and integrated drive unit
- Shallow foundation
- Emergency Fast Operation (EFO)

Features

- Low maintenance costs
- Installation in all climate zones possible
- Manual emergency lowering of the blocking element during power failure

	M30 rating	M50 rating
elkosta Bollards Automatic	PAS 68 V/7500[N2]/48/90:0.0/0.0 IWA 14-1 V/7200[N2A]48/90:0.4	Crash test ASTM F 2656-07 M50 - P2
Fixed shallow mounted	Vehicle impact simulation M30 - P1 (Triple unit)	Crash test ASTM F 2656-07 M50 - P1 (Triple unit)

Automatic Bollard M30, 7500 kg @ 48 km/h (667 kJ)

Foundation size:	1500x1750x400 mm (upper block) + 1100x1300x1300 mm (lower block)
Blocking height:	1000 mm
Diameter:	355 mm
Drive unit:	Mounted to installation frame
Operating time:	Raising: approx. 5-6 sec, lowering: approx. 3-4 sec
Optional:	EFO, stainless sleeve, top lighting

Automatic Bollard M50, 15000 lbs @ 50 mph (1699 kJ)

Foundation size:	1500x2500x400 mm (upper block) + 1100x100x1350 mm (lower block)
Blocking height:	1100 mm
Diameter:	355 mm
Drive unit incl. EFO:	Integrated in blocking element
Operating time:	Raising: approx. 5-6 sec, lowering: approx. 3-4 sec
Optional:	EFO, stainless sleeve, top lighting

Fixed shallow mounted Bollard M30, 15000 lbs @ 30mph (611 kJ)

Foundation size:	LxWxD = 4500 x 1750 x 400 mm (Triple unit)
Blocking height:	1000 mm or 1100 mm
Diameter:	355 mm
Optional:	Stainless sleeve, top lighting

Fixed shallow mounted Bollard M50, 15000 lbs @ 50mph (1699 kJ)

Foundation size:	LxWxD = 4500 x 2500 x 400 mm (Triple unit)
Blocking height:	1100 mm
Diameter:	355 mm
Optional:	Stainless sleeve, top lighting

Different types

The bollards can be supplied with different control features or can be integrated to existing security systems. For user safety optical and acoustic warning devices as well as induction loops and photo beam systems are available. The crash - rated bollard Type M30 is designed for high security applications and has a height of 1000 mm. The bollard M50 is able to take an even higher impact load and has a height of 1100 mm.

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