

Z-HSP 500

SUCCESSFULLY TESTED AND CERTIFIED HIGH SECURITY BOLLARD

Features of ZABAG`s High-Security Z-HSP 500 bollard

- certified to IWA 14-1:2013, N3E, 24t truck at 48 km/h (complies 1.067 KN)
- diameter of blocking part 500 mm
- blocking height 900 mm or customized
- electro-hydraulically operating
- ZABAG corrosion protection 3Plus
- bollard blocking part made of high-tensile steel, galvanized and powder-coated
- colour by RAL colour card or customized
- traversable covering top made from stainless steel

The top of the bollards is designed for 100 KN wheel load (bridge class SLW 60, DIN 1072).

Unauthorized access of street-legal vehicles is prevented reliably by ZABAG`s high-security bollard Z-HSP 500 is especially effective and sustainable for the purpose of protecting human beings and buildings in sensitive and public areas as well as arenas and event locations. The unauthorized access of all kind vehicles will be prevented securely.

ZABAG`s Bollard Z-HSP 500 successfully passed the Crash-Test at the authorized Crash Service Center in Münster with a 24t truck at 48 km/h without a problem and still was operational after the crash. This complies with an equivalent load of **1067 KN (certificate according to IWA 14 - 1:2013, N3E, 48 km/h).**

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|----------------------------|--|
| 3Plus corrosion protection | All steel parts are shot blasted, hot zinc sprayed, powder primed and then powder coated. This special finish ensures high resistance to damage caused by ultraviolet lights, scratches, chemicals or oil. |
| Drive system | 3,0 KW up to 11,0 kW rated output, 400 V, 3-phase, 50 Hz, according to run-time and number of bollards that need to be driven. |
| Hydraulic system | <p>The hydraulic system, which is installed separately, contains the pressure relief valve for the pump and the whole system, the hydraulic valve control, a pressure gauge and the electrically activated control valves for raising and lowering.</p> <p>Also an extra valve is integrated in the system to ensure, that the bollards blocking part will not come down by it`s own weight or by external forces.</p> |
| Control unit | <p>The control unit is also installed separately. Optional available features are:</p> <ul style="list-style-type: none">• uninterruptible power supply for control elements such as push button etc.• permanent memory of PLC-Control data to secure and to archive the limit switch positions and commands for the facility management as overflow system• Interface for remote control receivers• spare space for additional installations |

As part of our on-going process of product improvement, we reserve the right to change design and specification or to discontinue products without prior notice.



ZABAG®

SECURITY ENGINEERING

■ engineering ■ products ■ systems ■ customization



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Military or general institutions, governmental and industrial buildings, embassies, nuclear power plants, research centres and banks – they all need the highest possible protection available. That's what the ZABAG Z-HSB 500 bollard was designed for.

Pedestrian, cyclists and motorcyclists are able to pass the security bollards without any interferences. The bollards ensures, that vehicles and trucks will be blocked and destroyed completely on their attempt to break through.

Optional features

- LED lights at the top: moving bollards blinking, in raised position steady light, in lowered position off
- Bollard heating: thermostatically controlled at each cylinder
- Traffic light control
- Reflective tape
- Loop detector or photo cells for automatic raising or lowering
- Fast raising bollard
- Pressure accumulators to ensure operation in case of power failure
- High-security: in combination with surveillance and detection systems such as UVIS (under vehicle inspection system), CCTV, long range readers and/or LPR-Systems

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POWERFUL SECURITY

THE NEXT LEVEL
OF SECURITY



Contracting Client:
ZABAG Security
Engineering GmbH
Am Wasserwerk 38
09579 Grünhainichen
Germany

Certificate

of passed Barrier Testing Programme

| IWA 14-1:2013, N3E, 48 km/h, 19 th July 2017, CTS-Test No: 18763 | |
|--|---|
| Type of product: | Bollard, „Z-HSP 500“ |
| Vehicle penetration: | 0.64 m |
| Mass [Target]: | 24000 kg (±400 kg) |
| Mass [Test]: | 23957 kg |
| Impact speed [Target]: | 48.0 km/h (47.0 km/h – 51.0 km/h) |
| Impact speed [Test]: | 47.9 km/h |
| Angle: | 90 ° |
| Major debris: | No |
| Kinetic energy: | 2121 kJ |
| Observations | |
| Vehicle restrained: | yes |
| Vehicle immobilized: | yes |
| Performance Rating IWA 14-1:2013 | Moveable Bollard V/24000[N3E]/48/90-0.6 |
|  |  |

Sincerely


Dipl.-Ing. Peter Schimmelknecht
(Managing Partner)

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Your local distributor of ZABAG Security Engineering GmbH products



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Konformität
nach WPK
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