



## Z-HSP 273

### CERTIFIED AUTOMATIC BOLLARD

Unauthorized access of street-legal vehicles is prevented reliably and effectively by ZABAG's certified high-security bollards. The electro-hydraulic powered bollard opens after successful authorisation and allows free access for all vehicles on all entry's or exits. Pedestrians, cyclists, wheelchair and baby buggy users can pass the bollards without disturbance.

This high-security bollard successfully passed the crash-test at the authorized Crash Test Service Center in Münster. He stopped and destroyed a 12t truck, hitting with a speed of 80 km/h without any problem. This complies to a kinetic energy of 2904 KJ. [certificate according to IWA 14-1:2013 Bollard V/12000[N3D]/80/90/4.8]

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

Additional options, functions and special constructions are available up on request.

To meet all requirements of a holistic security concept, this bollard can be ideally combined with our fixed shallow mounted bollards.

#### IMPACT:

- truck weight: 12 t
- speed: 80 km/h
- kinetic energy: 2904 kJ
- static load: 1452 kN

#### CERTIFIED TO:

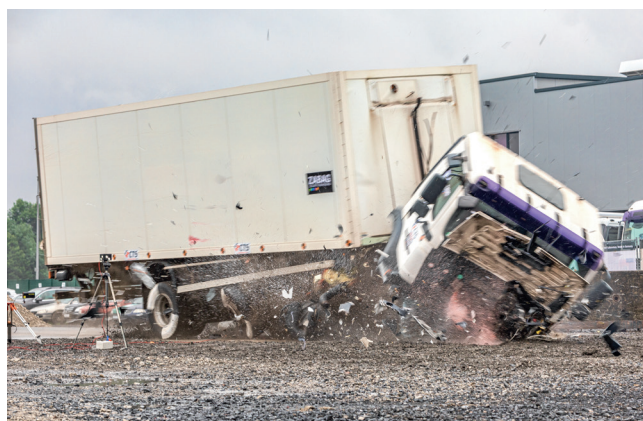
IWA 14-1:2013 Bollard  
V/12000[N3D]/80/90/4,8

#### APPLICATION:

- inner cities
- walkways and bicycle lanes
- pedestrian zones
- event areas
- data centres
- airports
- critical infrastructure
- military institutions

#### FEATURES:

- powered electro-hydraulic
- the hydraulic fluid is bio-degradable in accordance to hazard class 1
- in case of power failure, the bollard remains locked
- emergency operable with manual hand pump
- cap made from stainless steel
- LED-lighting on top of bollard







## TECHNICAL DETAILS

Corrosion protection	The blocking part is made from stainless steel V4A
Diameter	app. 273 mm
Blocking height	1.100 mm
Installation depth	app. 2.000 mm
Rising time	app. 8 seconds
Lowering time	app. 6 seconds
Drive unit	3 x 400 V 50 Hz 3-phase current
Security rating	IWA 14-1:2013 Bollard V/12000[N3D]/80/90/4,8

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.



Cap on top of blocking part

LED-Lighting & reflective tape

Blocking part

Finished level / ground

Stand pipe, casted in

Drain duct, DN 75

Supply duct, DN 75

