FIXED HIGH SECURITY BOLLARD

ARMIS 72|50 FIX-271-H900-SSB/NSP

The stationary, **fixed ARMIS 72|50 high-security bollards** are used as effective barriers in city centres or to protect sensitive areas such as research centres, embassies, police headquarters, military bases, ministries and many more.

However, fixed high-security bollards are also used where passage widths need to be reduced in combination with automatic bollards.

ARMIS fixed high-security bollards impress with their

- certified safety
- durability due to high corrosion resistance (optional additional treatment)
- attractive, timeless design
- Optimum visibility thanks to illuminated LED head (optional)

Design

The timeless, minimalist design blends in architecturally with all urban areas. The LED bollard head lighting ensures optimum visibility by day and night. Thanks to the identical design, fixed and automatically retractable bollards from the ARMIS 72|50 series can be seamlessly combined with each other.

Quality and durability

The bollard is designed for a long service life. This is guaranteed by high-quality materials and components. As an option, all parts can be manufactured from hot-dip galvanised steel, stainless steel or other non-corrosive materials.

Certifications

PAS68:2013 V/7500(N3)/80/90:0.0/20.0
IWA 14-1:2013 V/7200(N3C)/80/90:0.3
ASTM F2656/2656M 18a C750 - P1

Consel Group AG
Brunaustrasse 185
CH-8951 Fahrweid
+41 43 277 83 00
www.conselgroup.com

Options

Customised bollards
We manufacture the bollard of your choice:

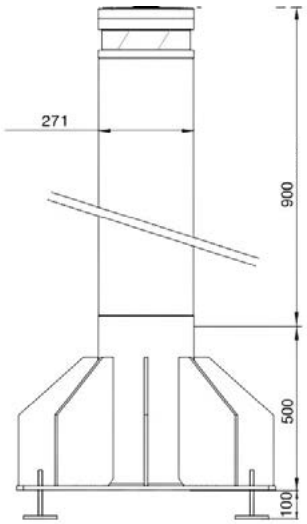
- Surface painted in the desired RAL colour or polished stainless steel shell
- Laser engraving with logo and/or lettering
- Warning markings

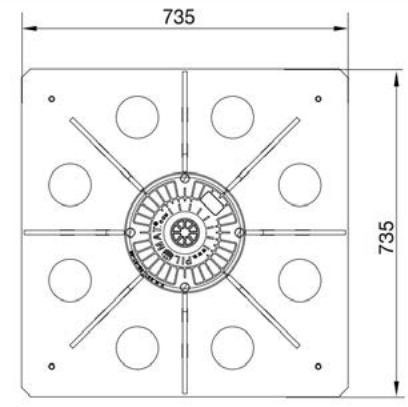
Head illumination
As with the ARMIS 72|50 automatic high-security bollards, bollard head illumination is also available for the fixed bollards

Advantages at a glance

- Identical design to automatic bollards
- Attractive design with stainless steel cover (optional)
- Hot-dip galvanised steel cylinder coated in RAL colour or stainless steel cover (optional)
- Optimum visibility thanks to reflector foil on the cylinder
- Installation depth of 60 cm

Technical drawings





Impact resistance

CIR*	15|30	25|40	35|30	72|30	72|40	72|50	75|30	75|40	75|50	120|30	120|40	300|30	300|40
Speed km/h (kph)	48	64	48	48	64	80	48	64	80	48	64	48	64
Speed m/h (mph)	30	40	30	30	40	50	30	40	50	30	40	30	40
Vehicle weight (kg)	1500	2500	3500	7200	7200	7200	7500	7500	7500	12000	12000	30000	30000
Kinetic energy (kJ)	133	395	311	640	1138	1778	667	1185	1852	1067	1897	2667	4741

* Consel Impact Rating (strength classes high-security products)

Technical specifications

Design	High-security bollard made of high-strength steel with anti-corrosion coating, painted in RAL colour (grey/anthracite)
Substructure	Compact, extremely strong bollard frame made of hot galvanized steel with color coating
Blocking element	Cylindrical bollard with diameter 271 mm and height from the ground of 900 mm
Cylinder material	Galvanised steel painted, stainless steel AISI 304 or AISI 316 ground
Corrosion protection (optional)	Special anti-corrosion coating
Lost casing	Pin in aluzinc with hot-dip galvanized steel frame and integrated reinforcement cage for setting in concrete - for a simple and inexpensive foundation design.
Bollard head	Cast aluminium with acrylic glass ring for peripheral illumination
Bollard head illumination (optional)	Multi-LED strip protected with continuous light or flashing adjustable (red/white/blue/green or RGB)
Bollard protection class	IP 67
Reflector tape	Reflector tape white (55 mm)
Impact resistance / shock resistance	Maximum resistance strenght: 2'000 kJ Impact resistance: 700'000 J / breakout resistance: 2'000'000 J
Certification / Performance rating	PAS68:2013 V/7500(N3)/80/90:0.0/20.0, IWA 14-1:2013 V/7200(N3C)/80/90:0.3, ASTM F2656/2656M 18a C750 - P1
Weight of bollard system	285 kg
Foundation mass	1500 x 2400 x 700 mm (reinforcement to be provided by customer)