

RB M50_900

Technical datasheet

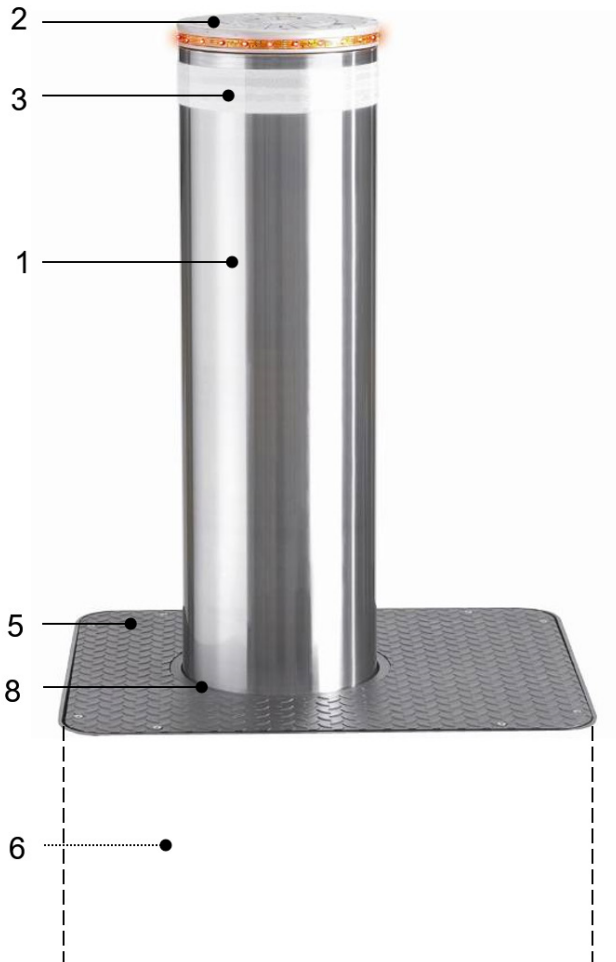
RB M50_900-FT-EN-09

AUTOMATIC
SYSTEMS

Access controlled...

Future secured

DESCRIPTION



RB M50 illustré avec borne en acier inoxydable en option.

The **RB M50 High-Security automatic rising bollard** is designed to protect and control access to sites that are susceptible to attempted break-in.

It can be used on any site where it is wished to create an obstacle to traffic without restricting pedestrian access.

In urban environments, it has the advantage of being completely invisible when lowered. It is also perfect for controlling vehicle access to pedestrian areas.

The high-security bollards have greater impact resistance than that of the other obstacles in the range

[see technical characteristics below].

1. High-security obstacle comprising a 275 mm diameter, 25 mm thick steel cylinder covered with an AISI 304 stainless steel sheet metal of 1.5 mm thick.
2. 30 mm thick cast aluminium crown.
3. 55 mm reflective strip.
4. Mobile obstacle supported on a thick steel section supporting structure.
5. 5 mm thick cast aluminium cover plate.
6. Galvanized sheet steel embedded casing with a steel frame at the top for attaching the obstacle.
7. Mobile obstacle is held vertically and strengthened by means of a thick steel collar connected to the supporting structure and a nylon bush built-in to the obstacle and sliding along the central jack.
8. Synthetic joint.
9. Double-acting central hydraulic jack for raising and lowering the obstacle. Obstacle not fixed to the jack to limit damages caused by small shocks.
10. Hydraulic unit mounted on the supporting structure producing 40 bars to maintain the obstacle in the raised position.
11. Obstacle stopped in raised and lowered positions by mechanical stops.
12. Steel/rubber bearings support the obstacle when in the retracted position, allowing it to withstand the passage of heavy vehicles (40T – Class Load D400).
13. Inductive sensors for raised and lowered position status information.
14. Remote microprocessor control board, separated from the obstacle (10 m of electric cable provided), dipswitch programming, LED display for obstacle status and inputs/outputs used.

SURFACE PROTECTION:

- Bollard:
 - o Mobile obstacle: steel covered with Stainless steel sheet metal of 1.5 mm thick.
 - o Cover plate: grey anthracite RAL 7016.
 - o Crown: light grey RAL 9006.
- Casing: polyester powder paint RAL 7016.
- Jack: surface anodizing.

STANDARD TECHNICAL CHARACTERISTICS:

Impact resistance certification(s):

Certified: D0S K12/L1. Rated in compliance with:
 PAS67:2013 V/7500(N3)/80/90
 IWA 14-1:2013 V/7200(N3C)/80/90
 ASTM M50

Impact resistance: (type of vehicles)	3,5 T à 112 km/h 7,2 T à 80 km/h.
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Impact resistance:	1.800 000 joules.
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Impact resistance with guaranteed operation:	700 000 joules
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Power supply:	230 V* single phase.
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Frequency:	50/60 Hz.
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Nominal power:	1700 W.
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Raising speed:	4 sec.
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Lowering speed:	4 sec.
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Working temperature:	-15 to +60°C.
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Frequency of use:	2000 operations per day.
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MCBF (Mean Cycles Between Failure)	2.000.000 de cycles, respecting the recommended maintenance.
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Poids:	± 900 kg. (Bollard: ± 470 kg; Pit: ± 430 kg)
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Protection index:	IP 67 for hydraulic components.
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Complies with European standards.

* do not connect to a floating network or to high impedance earthed industrial distribution network.

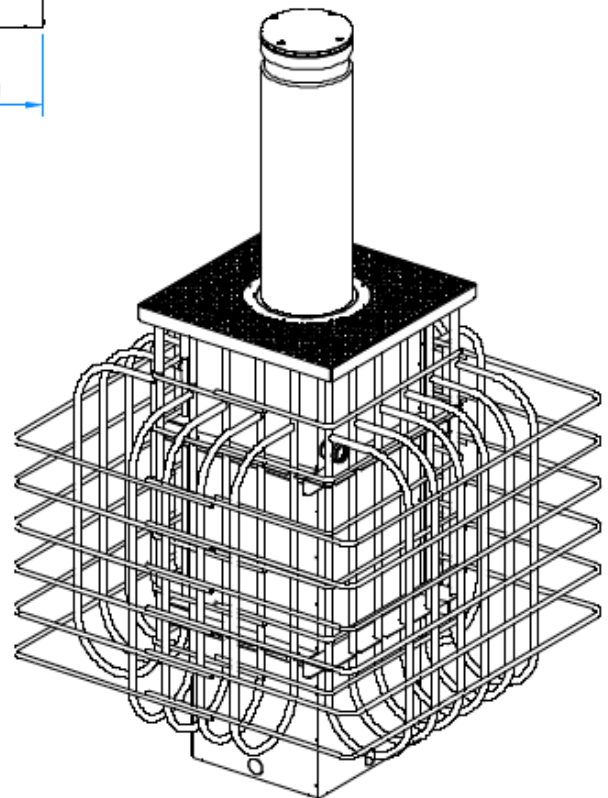
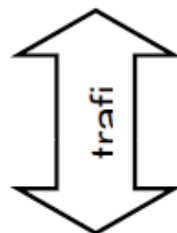
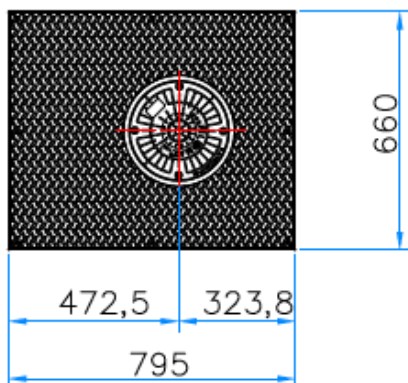
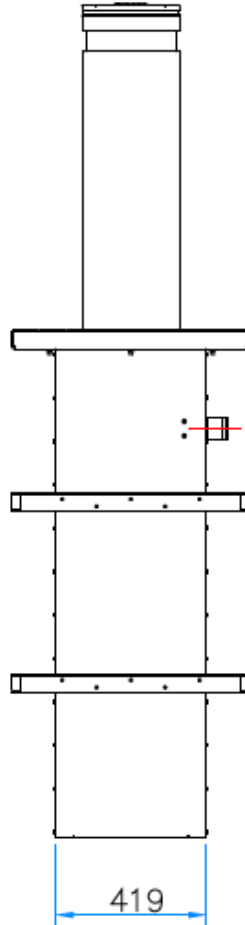
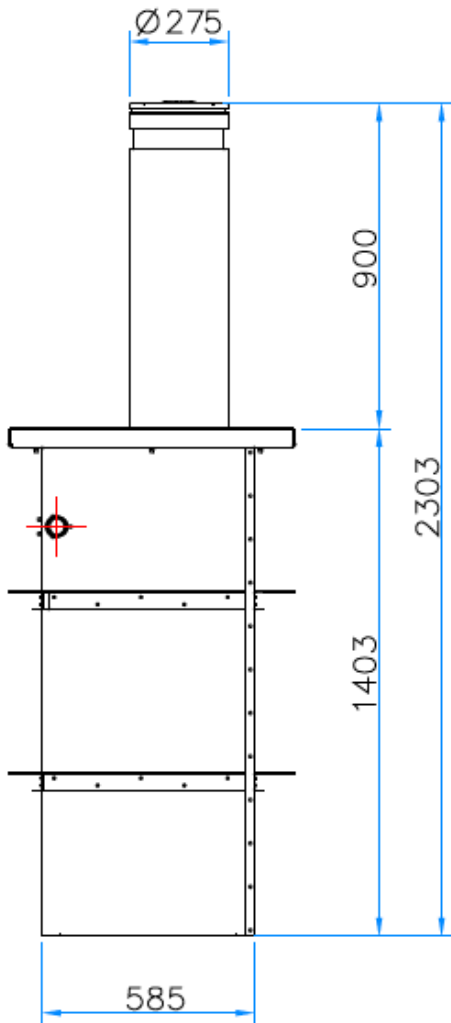
WORK TO BE REALISED BY THE CUSTOMER:

- Embedding casing in a concrete foundation (refer to installation drawing).
- Drainage or connection to mains drainage (if necessary).
- Power supply.
- Electric connections with external peripherals.

OPTIONAL

1. Indicator lights (LEDs in the perimeter of the crown); flashing with or without warning given prior to obstacle operation.
2. Pit in aluzinc or in AISI 304 Stainless steel.
3. Metal trap for closing counterframe.
4. Intermittent audible signal with or without warning given prior to obstacle operation.
5. Other RAL color.
6. Biodegradable fuchs oil into the hydraulic pump.
7. Additional cable lengths (to connect the bollard unit to the central logic box) (maximum length: 60 meters - Supplied in multiple of 5 m).
8. Heating resistance for operation at a temperature down to -40°C in case of use in areas that are highly exposed to snow or prolonged freezing.
9. Moving cylinder covering in stainless steel brushed AISI 316.
10. Device for manual operation (if power failed).
11. Emergency Fast Opening (E.F.O.: 1 s).
12. UPS group for working max. 1 RB in case of power failed.
13. Feeder/accumulator group on control panel for emergency lowering if power failed.
14. Kit Up/Down to signal position - Up - Down.
15. Alarm kit - 1 status contact RB high - 1 status contact RB crown.
16. Floor metallic column with foundation bracket.
17. Heating device for control unit.
18. Red/Green LEDs traffic lights (Ø 100 mm).
19. Galvanized stake Ø105 mm for traffic light.
20. Inductive detector for inductive loop.
21. GSM activator for remote control.
22. Timer programmer (Weekly or Yearly).
23. Additional cables junction box with gel.
24. Pressure gauge with connection to show pressure in the hydraulic pump.
25. Vehicle inductive loop.
26. Photo-electric cell (T/R or Reflex).
27. Cell support post.
28. Radio transmitter/receiver.
29. Push button box.

STANDARDS DIMENSIONS (mm)





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