

The RB60/80 automatic rising obstacle 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.

Description

1. Mobile obstacle of 275 mm diameter, 6 mm thick steel, with a non-slip cast aluminium crown. Double white reflective strip on the upper part of the obstacle. Height above ground: 600 or 800 mm.
2. Thick steel section supporting structure.
3. Cast aluminium cover plate and link frame between the obstacle and the road surface (mounted onto the embedded casing).
4. Galvanized sheet steel embedded casing.
5. 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.
6. Synthetic joint.
7. Double-acting central hydraulic jack for raising and lowering the obstacle. Obstacle not fixed to the jack to limit damages caused by small shocks.
8. Hydraulic unit mounted on the supporting structure. Reduced hydraulic pressure during rising of the obstacle: reversal of movement in the event an obstacle > 40 kg is detected. Full pressure during the final 10 cm of travel and in the raised position.
9. Obstacle stopped in high position by pressure switch and mechanical stop.
10. Steel/rubber bearings support the obstacle when in the retracted position, allowing it to withstand the passage of heavy vehicles (max. 25T).
11. Inductive sensor for lower position status information.
12. 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: hot galvanization + two-component epoxy top coating;
Mobile obstacle: grey anthracite RAL 7021.
Crown + cover plate: light grey RAL 9006.
Casing: hot galvanization.

Technical characteristics

Impact resistance: 40,000 joules with guaranteed operation;
250,000 joules with permanent deformation.

Electrical power supply: 220 V single phase
(do not connect to a floating network or to high impedance earthed industrial distribution network)

Frequency: 50 Hz

Max. power: 400 W

Raising speed: 15 cm/s.

Lowering speed: 30 cm/s

Operating temperature: -15 to + 70° C

Frequency of use: 1,500 operations per day

Mechanical endurance (MCBF): 2,000,000 cycles

Weight: RB60 = 161 kg
RB80 = 197 kg

Protection index of hydraulic components: IP67

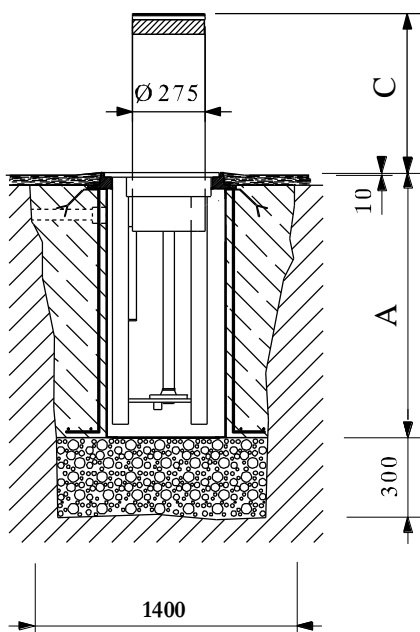
EC compliant.

Options

1. Indicator lights (LEDs on the perimeter of the crown) – flashing with or without warning given prior to obstacle operation.
2. Intermittent audible signal with or without warning given prior to obstacle operation.
3. Heating resistance for operation at temperatures down to -40° C or in case of use in areas that are highly exposed to snow or prolonged freezing.
4. Automatic lowering of the obstacle by solenoid valve in case of power failure.
5. Hermetically sealed, embedded casing fitted with an immersion pump if direct drainage or connection to mains drainage is not possible.
6. Additional cable lengths (to connect the bollard unit to the central logic box)(maximum length: 80 meters).
7. Push button(s) box.
8. Radio transmitter/receiver.
9. Vehicle inductive loop.
10. Presence detector for inductive loop.
11. Mobile obstacle in AISI 304 brushed stainless steel.
12. Paint of another RAL color for the mobile obstacle.
13. Antirust crown for the perimeter of the cover plate.
14. Alarm in case of lowering attempts of the obstacle.
15. Control board for 2 to 8 synchronous bollards.
16. Dry contacts for bollard position information (up/down).
17. Booster to increase the raising speed (1 s).
18. UPS (backup power in case of power failure).

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).
- 220V single phase power supply.
- Connecting electrical cable.



| <u>Standard dimensions (mm)</u> | | |
|---------------------------------|------|------|
| | RB60 | RB80 |
| A | 1000 | 1200 |
| C | 600 | 800 |

