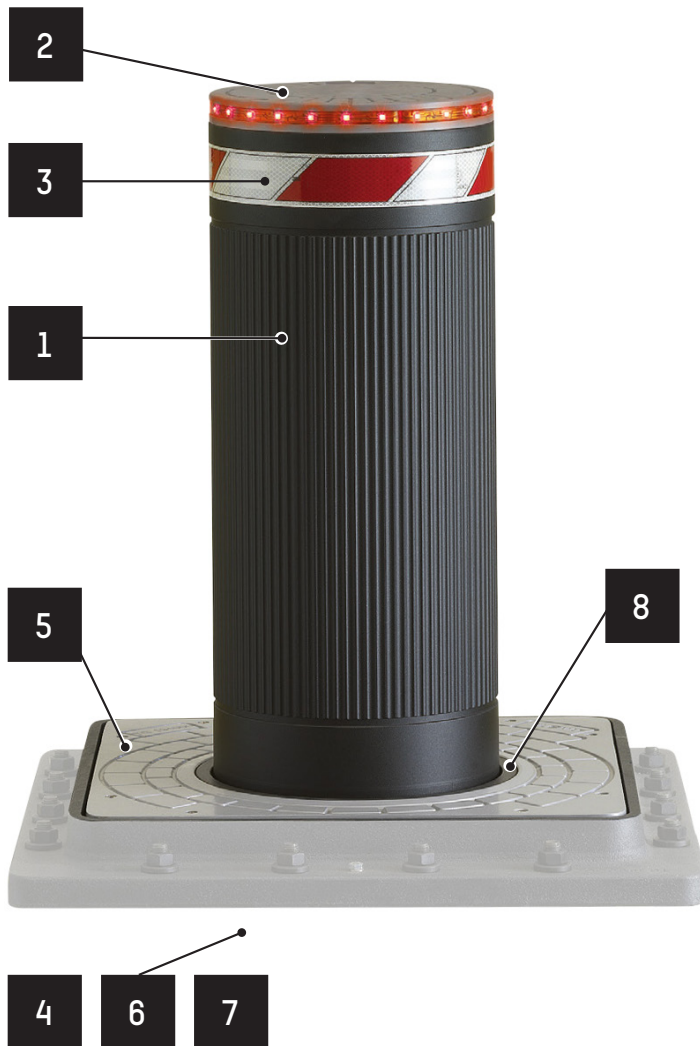


# RB M30\_700

## Datasheet

Rev. 11 • Update 07/2021



## DESCRIPTION

1. High-security obstacle comprising a 273 mm diameter, 10 mm thick painted (RAL 7016 - Anthracite grey) steel (FE 510) cylinder. The obstacle is available in 3 finishes\*: painted steel, stainless painted steel or brushed stainless steel.
2. Cast aluminium upper crown (RAL 9006 - White Aluminium). The upper crown is also available with LED indicator lights (on the perimeter of the crown).\*
3. 55 mm reflective strip.
4. Load-bearing structure made of high-section steel profiles.
5. Cast aluminium cover plate.
6. Galvanized sheet steel embedded casing with a normal steel 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. Plunger 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.

\* Product configuration to be specified when ordering.

The **RB M30\_700** 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 obstacles have greater impact resistance than that of the other obstacles in the range (see technical characteristics below).



## SURFACE PROTECTION

### Treatment B:

- Shot blasting (SA 2,5);
- Epoxy powder primer (80 µm);
- Polyester powder finishing paint (80 µm).

## STANDARD TECHNICAL SPECIFICATION

Impact resistance specifications:	
Rated in compliance with	PAS68:2013 V/7500(N3)/48/90 IWA 14-1:2013 V/7200(N3C)/48/90 ASTM M30 & D0S K4
Impact resistance (Vehicles type)	3,5 t at 64 km/h 7,5 t at 48 km/h.
Impact resistance	750.000 Joules
Impact resistance (without deformation)	250 000 Joules
Cylinder diameter	273 mm
Cylinder height	700 mm
Power supply	230 V single phase (do not connect to a floating network or to high impedance earthed industrial distribution network)
Frequency	50/60 Hz
Nominal power	900 W
Rising speed	7 Sec
Lowering speed	3 Sec
Ambient temperature of operation	-40 at +70°C.
Weight included 10m cable - foundation box with rebars	305 kg
Weight of the foundation box with rebars	Foundation box: 45 kg Rebars: 100 kg
Frequency of use	2000 cycles/day.
MCBF (Mean Cycles Between Failure)	3.000.000 cycles respecting the recommended maintenance
Protection index	IP 67
Load class (EN124)	D400
Conform to European standards.	

## WORKS TO BE PROVIDED BY THE CUSTOMER

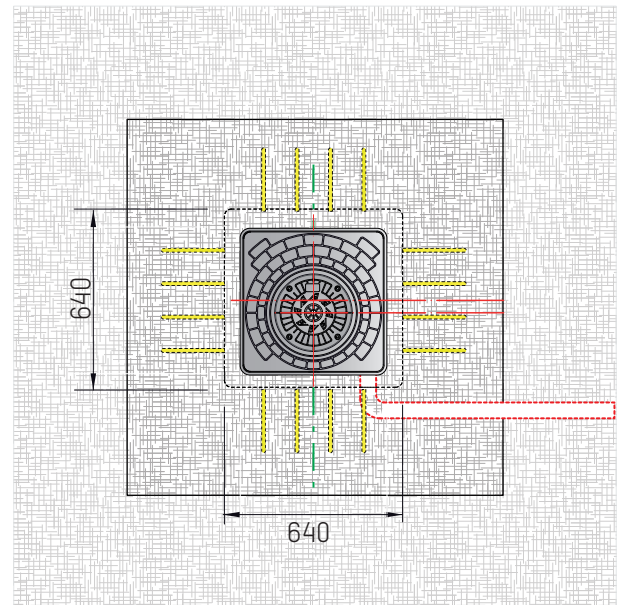
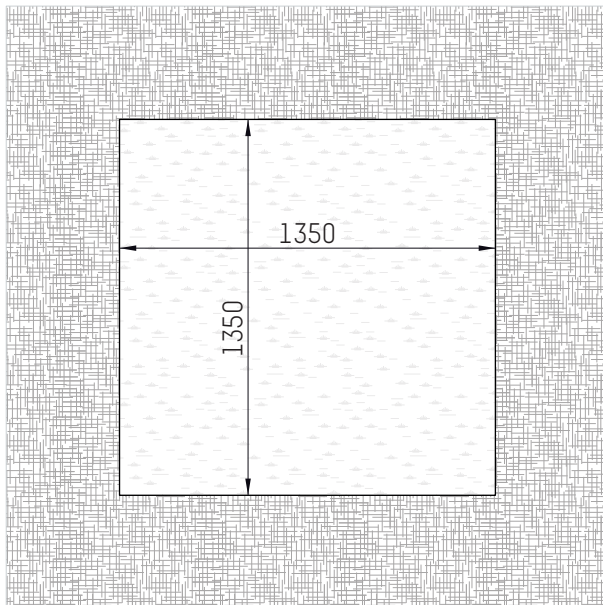
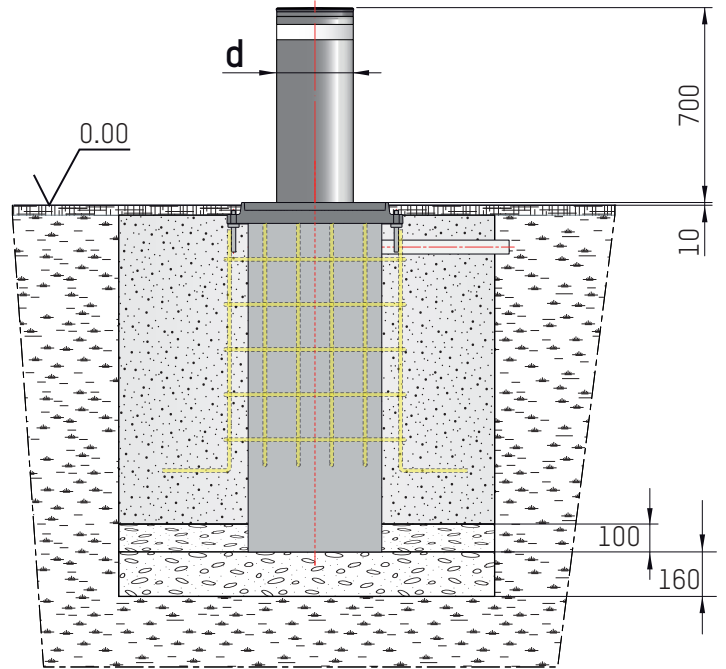
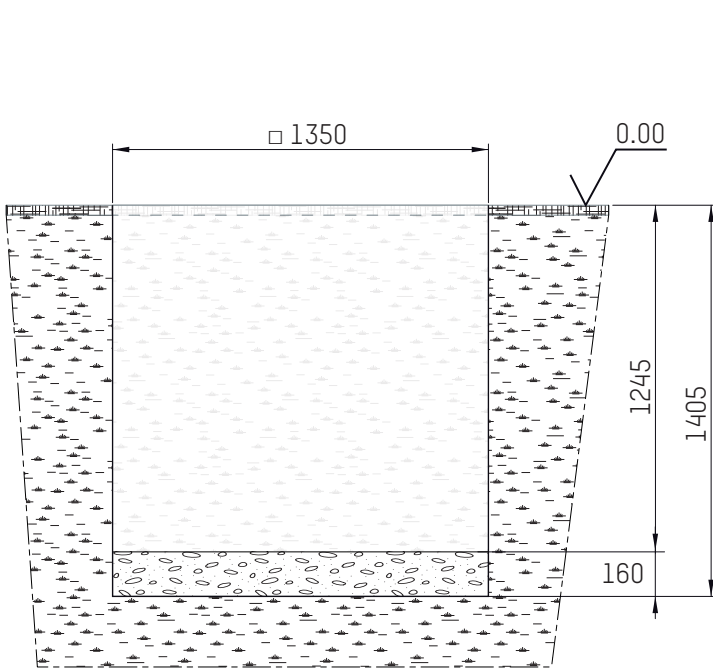
- Embedding casing in a concrete foundation (Refer to installation drawing).
- Drainage or connection to mains drainage.
- Power supply.
- Electric connections with external peripherals.

## OPTIONS

1. Metal trap for closing counterframe.
2. Buzzer acoustic signal for automatic bollard.
3. Other RAL colour.
4. Anti-corrosion treatment M: ⓘ
  - Sand blasting (SA 2,5)
  - Epoxy powder paint of ± 80 µm thick;
  - Two-component Epoxy paint of ± 180 µm thick;
  - Two-component polyurethane topcoat of ± 60 µm thick.
5. Biodegradable oil into the hydraulic pump.
6. Additional cable lengths to connect the bollard unit to the central logic box (maximum length: 80 meters - with heating resistor, max 50m) (Supplied in multiple of 5m).
7. Pair of Quick release bollard cable connector - IP68.
8. Heating device for bollard with transformer and thermoswitch.
9. Moving cylinder with stainless steel brushed AISI 316.
10. Knurling on normal steel cylinder surface.
11. AISI 316 Stainless steel counterframe cover.
12. Kit of anti-tampering screws of the crown - removable key.
13. N.O. solenoid valve for automatic lowering if power failed.
14. Device for manual handling in case of power failure.
15. UPS group for working max 3 bollards in case of power failed.
16. Feeder/accumulator group on control panel for emergency lowering if power failed.
17. Kit Up/Down to signal position - Up - Down.
18. Alarme kit - 1 status contact high RB - 1 status contact RB crown.
19. Security lock for control unit cabinet.
20. Floor metallic column for control unit .
21. Heating device for control unit.
22. Kit led lamp and Schuko socket 230V for control unit.
23. Traffic light led (Ø 100 mm) - 1 red - 1 green.
24. Galvanized stake for traffic light.
25. Inductive detector for safety one (or two)-channel(s) inductive loops.
26. Inductive detector for command one (or two)-channel(s) inductive loops.
27. GSM activator for remote control.
28. Timer programmer (Weekly or Yearly).
29. Additional cables junction box with gel.
30. Pressure gauge 0/160 bar with connection to show the pressure in the hydraulic pump.
31. Inductive loop for detection - Car / Truck.
32. Photo-electric cell (T/R or Reflex).
33. Cell support post for transmitter / receiver or reflex.
34. Radio transmitter / receiver.
35. Push button(s) box.
36. Emergency Fast Opening (EFO: 1 s).

ⓘ Mandatory for an installation less than 2 km from a seaside or for intensive sandblasted pavement (3 months/year)

## STANDARD DIMENSIONS (MM)



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RB M30\_700-FT-EN-11