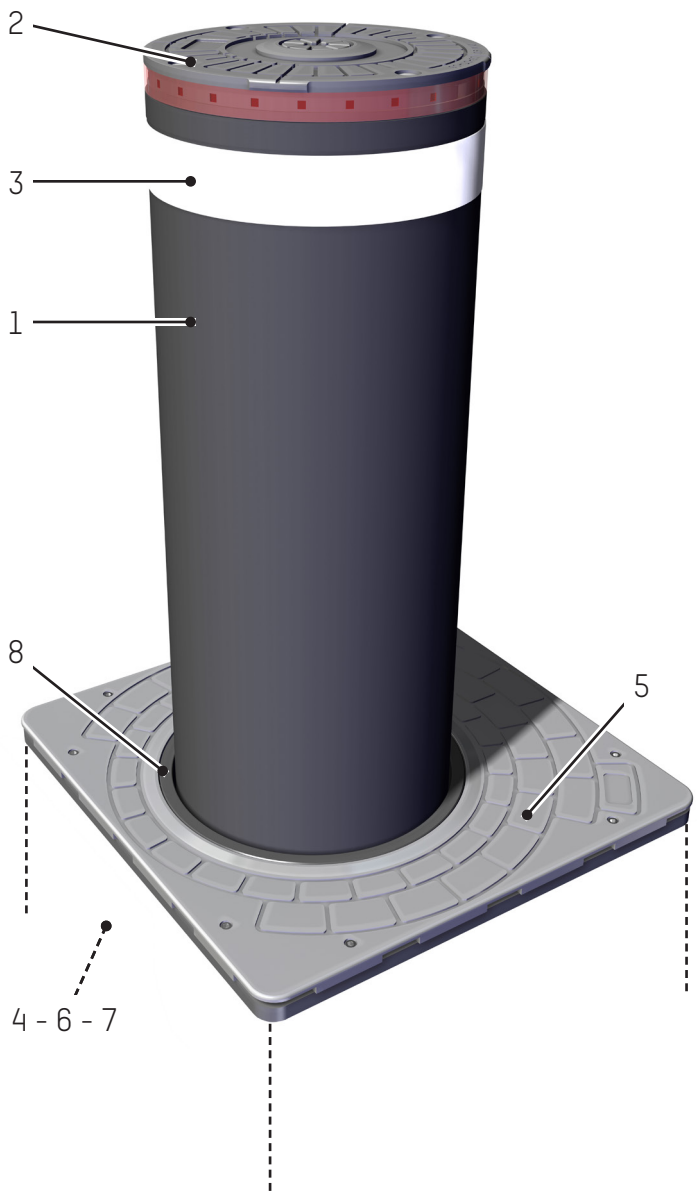
RB M30_700

Technical datasheet

RB M30_700-FT-EN-09

Access controlled...
Future secured



Non contractual illustration.

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)*.

DESCRIPTION OF THE STANDARD EQUIPMENT

1. High-security obstacle comprising a 275 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. 30 mm thick 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. 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 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.
10. Obstacle not fixed to the jack to limit damages caused by small shocks.
11. Hydraulic unit mounted on the supporting structure producing 40 bars to maintain the obstacle in the raised position.
12. Obstacle stopped in raised and lowered positions by mechanical stops.
13. Steel/rubber bearings support the obstacle when in the retracted position, allowing it to withstand the passage of heavy vehicles *(40T - Class Load D400)*.
14. Inductive sensors for raised and lowered position status information.
15. 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.*

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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 & DOS 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)*	150.000 joules.
Power supply:	*230 V single phase* - 50 Hz ⓘ.
ⓘ *Do not connect to a floating network or to high impedance earthed industrial distribution network.*	
Nominal power:	400 W
Rising speed:	7 sec.
Lowering speed:	3 sec.
Operating temperature:	-10 to +70°C.
Frequency of use:	2000 operations per day.
MCBF: *(Mean Cycles Between Failure)*	**3.000.000 cycles**, respecting the recommended maintenance procedure.
Foundation deep:	1500 mm
Weight of mobile cylinder:	55 kg.
Total weight:	± 330 kg.
Protection index:	IP 67.
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.

OPTIONAL

1. Pit in aluzinc or stainless steel AISI304 *(with or without immersion pump)*.
2. Kit suspended pit.
3. Metal trap for closing counterframe.
4. Intermittent audible signal with or without warning given prior to obstacle operation.
5. Painting with RAL colours on request of cylinder.
6. Anticorrosive treatment for cylinder and/or frame - Metallization.
7. Anticorrosive treatment 'M': ⓘ
   - Sand blasting (SA 2,5);
   - Epoxy powder paint of ± 80 µm thick;
   - Two-component Epoxy paint of ± 80 µm thick;
   - Two-component polyurethane topcoat of ± 60 µm thick.
8. Biodegradable oil for the hydraulic pipes.
9. Additional electrical connection line *(connecting RB to the control unit)*. Max. 80 meters.
10. IP68 sealed fast connectors for cables interconnections.
11. Heating resistance for operation at low temperatures down to -40° C or in case of use in areas highly exposed to snow or prolonged freezing conditions.
12. Mobile cylinder with normal steel with ribs on surface
13. Mobile cylinder covered with AISI 316 brushed stainless steel sheet.
14. AISI 316 Stainless steel counterframe cover.
15. Kit of anti-tampering screws of the crown - removable key.
16. Automatic lowering cycle in case of power failure.
17. Manual up/down operation in case of power failure.
18. E.F.O. *(Circuit for emergency rising at high speed (around 2 s))*.
19. UPS *(power supply in case of power failure)*.
20. Feeder/Accumulator group on control panel for emergency lowering in case of power failure.
21. Kit UP/DOWN position auxiliary contacts *(dry contact)*.
22. Alarm kit *(1 status contact high position RB - 1 status contact RB cover plate)*.
23. Floor metallic column for control unit.
24. Heating device for control unit.
25. Traffic light, LED version, Red/Green *(Ø 100 mm)*.
26. Galvanised post for traffic light.
27. Inductive detector for safety inductive loop.
28. Pressure gauge to show pressure in the hydraulic pump.
29. Inductive loop for vehicle detection.
30. Photo-electric cell *(T/R or Reflex)*.
31. Radio Transmitter/Receiver.
32. Push button box.

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

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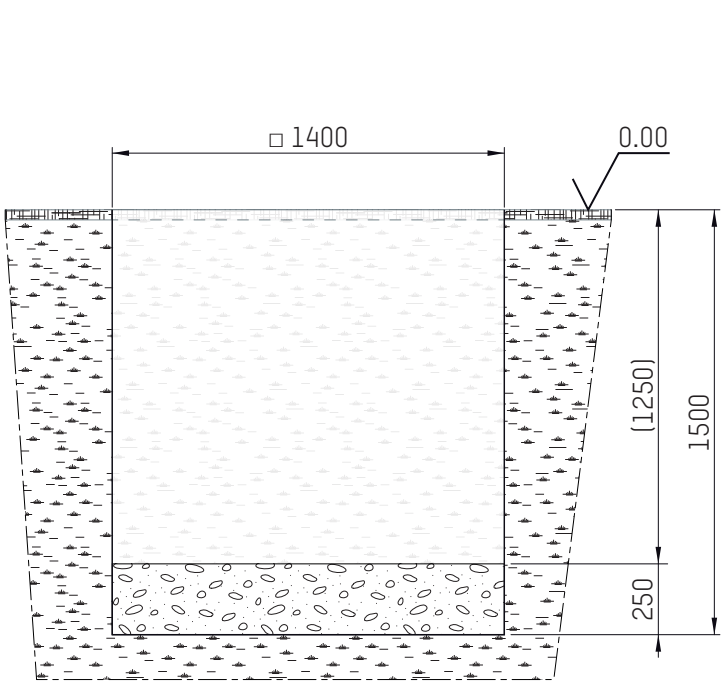
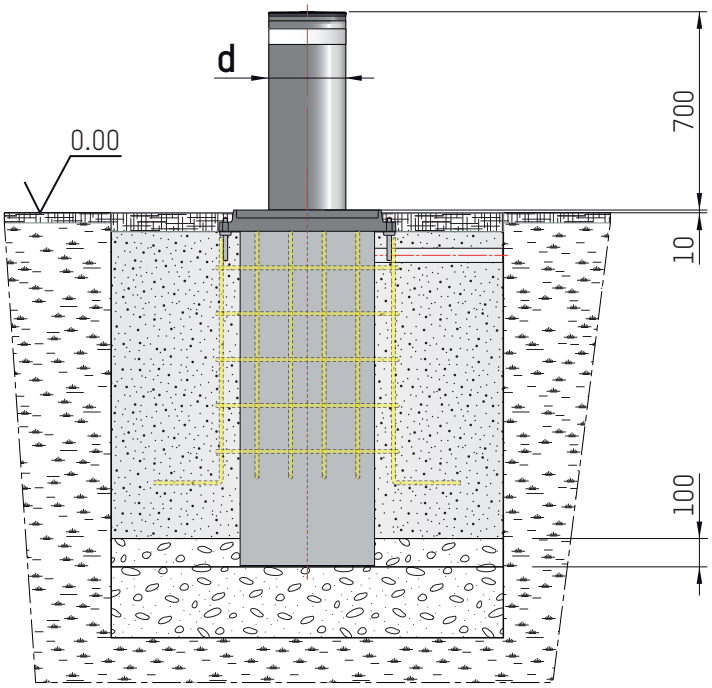
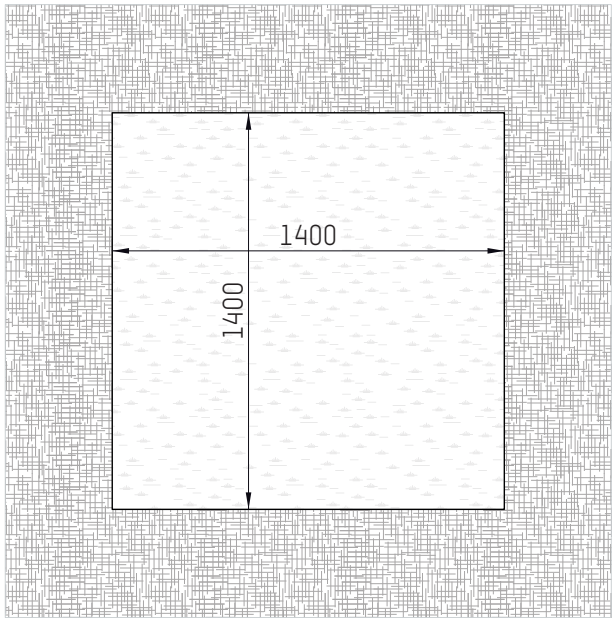
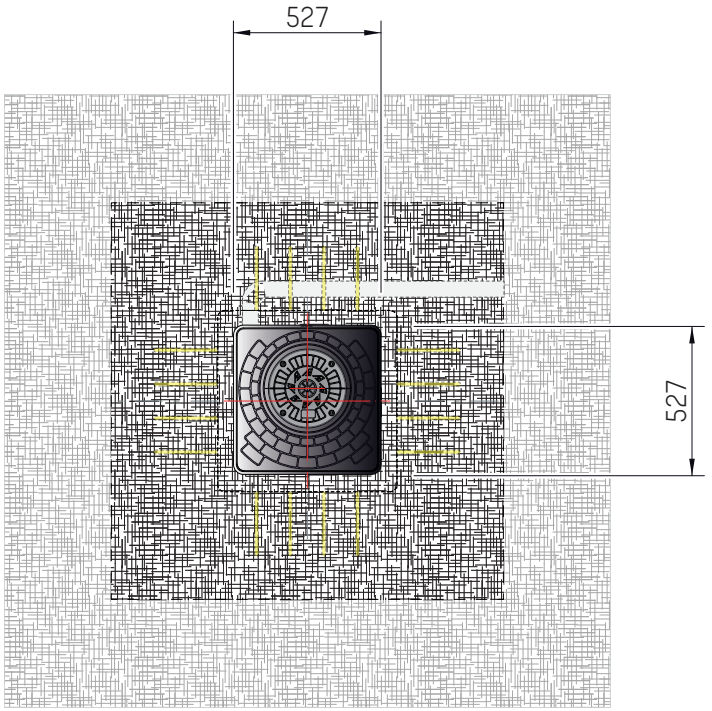
STANDARD DIMENSIONS (mm)









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Steel cylinder	Ø 274 mm
Stainless steel cylinder	Ø 273 mm

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