RSB M50

Technical datasheet

Rev. 14 • Update 07/2023

The **RSB M50** series is built with a weak depth design to avoid the main problems of laying in presence of public services (cables ducts, drainage systems, and similar).

The **RSB M50** is the basic version typically used for protection of high risks area as airports, military and chemical sites, stadiums, etc.

STANDARD TECHNICAL SPECIFICATIONS

Impacts resistance certifications:				
Rated in compliance with	IWA 14-1:2013 V/7200(N3C)/80/90 ASTM M50 & DOS K12			
Crash-tested	PAS68:2013 V/7500(N3)/80/90:0.2/10			
Breakout resistance (type of vehicles)	3.5T at 112 km/h 7.5T at 80km/h			
Breakout resistance	2,000,000 joules			
Power supply	230VAC (+/- 10%) - 50/60HZ			
RSB height	1000 mm			
	RSB M50 - 2000	**RSB M50 - 3000**	**RSB M50 - 4000**	**RSB M50 - 5000**
Moving platform width	2000 mm	3000 mm	4000 mm	5000 mm
	*__RSB M50 - 6000__ : Single unit underground / 2 x 3 m width on surface			
Weight	1530 kg	2120 kg	2670 kg	3100 kg
Rising time	7 sec. **(Optional: EFO rising time 2 sec)**			
Lowering time	7 sec.			
Ambient operating temperature	from -20°C to +70°C. (Please select the appropriate heating option to prevent the formation of ice)			
Frequency of use	2000 cycles/day			
MCBF (Mean cycles between failures)	**3,000,000** cycles, in compliance with recommended maintenance			
IP rating	IP 67			
Load class (EN124 norm)	D400			
Metal skirt	For closing front and side of the road blocker (white/red)			
Movement	Hydraulic			
Complies with European standards				

OPTIONS

AESTHETICS

- Finely structured matt powder coating (any RAL colour on request) of the metal skirt (ex: yellow/ black).
- Mobile panel in embossed AISI 304 stainless steel (instead of checkered powder coated steel).
- Anti-corrosion marine treatment. ⓘ

CONTROL

- Additionnal electric cables to connect the road blocker RSB M50 to the control unit (max 30m in total; 10m included in standard + max 20m as an option) - Supplied in multiples of 5m.
- EFO circuit for emergency rising.
- Kit to test and recharge the nitrogen pressure into the pressure accumulator.
- N.O. solenoid valve on the pump for automatic lowering in case of power failure.
- UPS device 2.4kW-3kVA for operation of max 1 RSB (10 operations or 1 hour) in case of power failure.
- Emergency lowering in case of power failure - terminal block ready for the installation of a button (not included) on the control panel in the electrical cabinet (1 per RSB unit).
- Auxiliary pump (20 operations / hour in case of power failure) - equipped with 2 rechargeable 12V 12Ah batteries in case of power failure.
- Device for manual handling (rising/lowering) in case of power failure (inside the electrical cabinet).
- Heating device (including transformer and thermostat - for operation up to -20°C).
- Heating device for the electrical cabinet for the control unit (including transformer and thermostat - for operation up to -20°C).
- Position information kit (return of a signal Up or Down).
- Floor-mounted electrical cabinet for the control unit in brushed stainless steel AISI 304 (instead of powder coated steel).
- Floor basement of the electrical cabinet for the control unit in powder coated steel.
- Floor basement of the electrical cabinet for the control unit in powder coated stainless steel.
- Finely structured matt powder coating (any RAL colour on request) of control unit housing.
- EuroLock profile on the electrical cabinet with the control unit.
- Kit with lighting & Shuko socket 230V in the electrical cabinet.

SIGNALIZATION

- Buzzer > 80dB.
- Lighting strips (30 LEDs/m).
- Traffic light Ø100mm - Red/Green (without post).
- Powder coated steel post for traffic lights (Ø105mm - height 4m).

OTHER OPTIONS

- Presence sensor for safety one (or two)-channel inductive loops.
- Presence sensor for command one (or two)-channel inductive loops.
- Cell phone activator for remote control (up to 900 connected cell phones).
- Weekly / Yearly timer programmer.
- Pressure gauge 0/250 bar with connection to show the pressure in the hydraulic pump.

ⓘ Recommended for installations less than 3 km away from the sea or for location were de-icing salt is sprayed in the winter time.

Note: For restrictions on options, please contact us.

WORKS TO BE PROVIDED BY THE CUSTOMER

- Concrete foundation and rebars supply.
- Drainage or connection to main drainage.
- Power supply.
- Electric connections with external peripherals.

Note: Follow the installation plan.

CONTROL CABINET

The wall-mounted cabinet contains the control unit and the hydraulic pump.

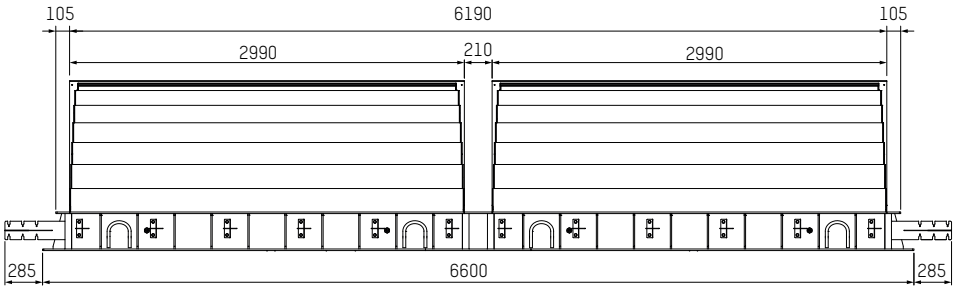
Cabinet dimensions:

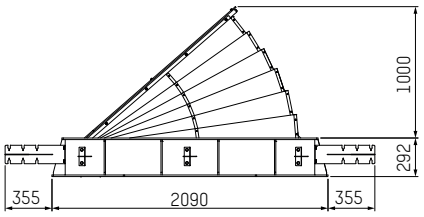
- Without baseplate = 600x400x1200 (LxWxH)
- With baseplate = 600x400x1400 (LxWxH)

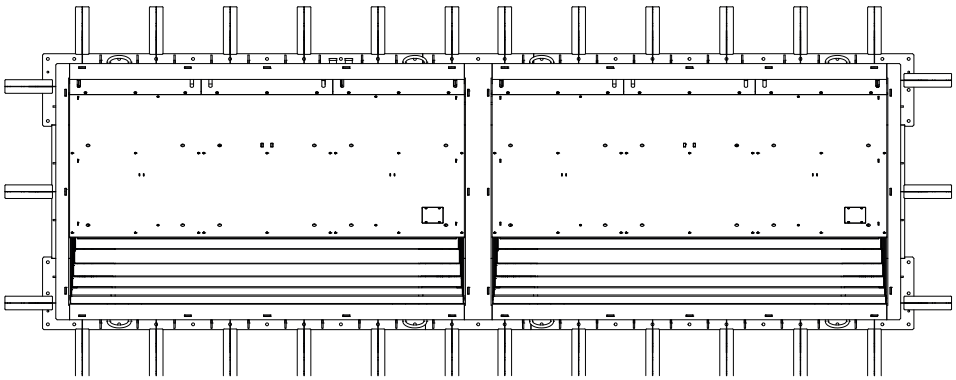
6M MODEL

The retractable obstacles of 6 meters length appear as follows:

- A unique 6m frame to integrate into the ground.
- 2 movable obstacles of 3 meters slightly spaced and operating synchronously.
- A single cabinet containing one control logic and a pump that operates both movable obstacles.







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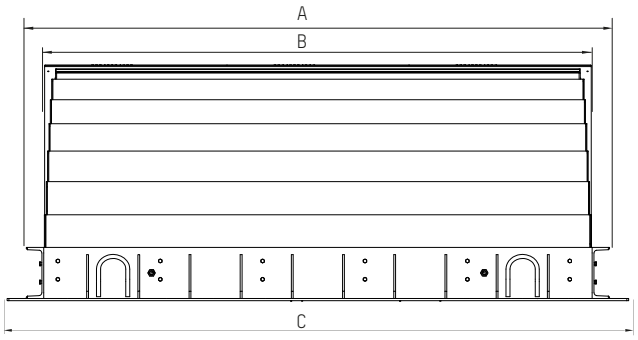
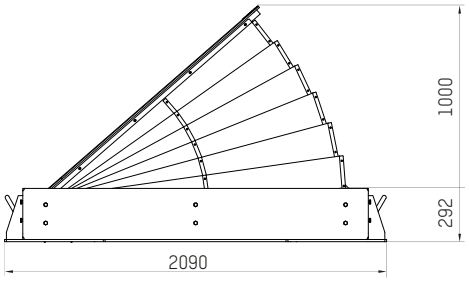
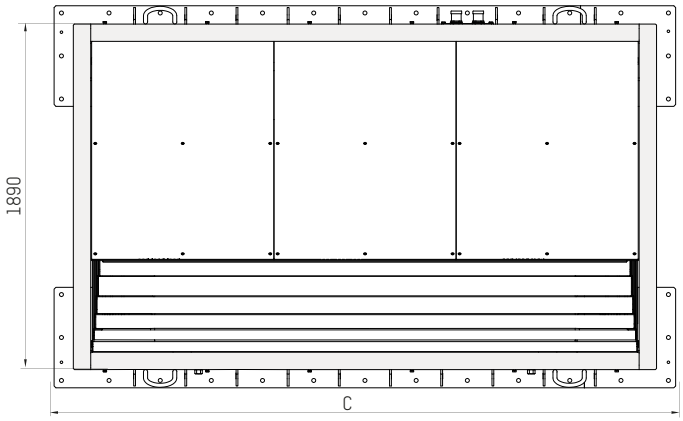
STANDARD DIMENSIONS (MM)







MODELS	A	B	C
RSB M50_2000	2190 mm	1990 mm	2400 mm
RSB M50_3000	3190 mm	2990 mm	3400 mm
RSB M50_4000	4190 mm	3990 mm	4400 mm
RSB M50_5000	5190 mm	4990 mm	5400 mm

Dig a pit with a **depth of 500 mm** and the following dimensions:

- **Version 2 m:** 3200 × 3400 mm
- **Version 3 m:** 3200 × 4400 mm
- **Version 4 m:** 3200 × 5400 mm
- **Version 5 m:** 3200 × 6400 mm

Note: Reinforcements not shown in the above drawing.

HEAVY TRAFFIC APPLICATION

- The RSB M50 comply with EN 124 Class D400 and are used by medium and moderate traffic road applications: access control, lane closure, etc.
- For uses with heavy traffic, specific conditions of use and adaptations are mandatory (signalling, operating modes, maintenance, mechanical lock, reinforcements, etc.).

Please contact us so that a suitable and secure solution can be proposed to you.

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