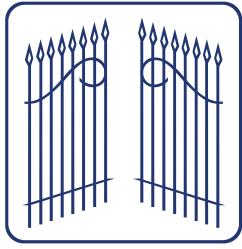


**FADINI**<sup>®</sup>  
the gate opener

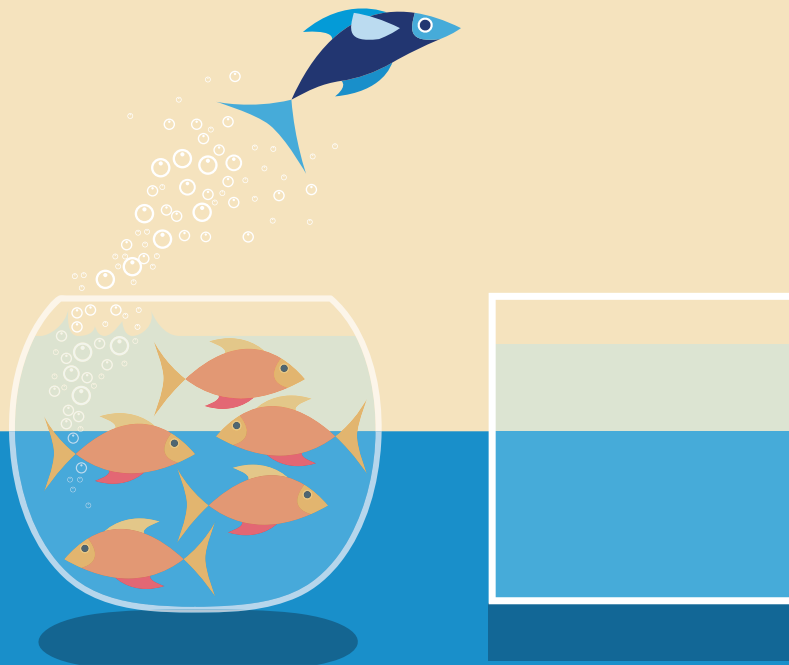
## 2017 CATALOGUE

OIL-HYDRAULIC AUTOMATIC,  
SEMIAUTOMATIC, REMOVABLE AND  
FIXED BOLLARDS





**FADINI**<sup>®</sup>  
the gate opener



## **FADINI Automation, history is not fantasy**

Creativity is to think ahead to the future, projects where design and quality are an answer to your questions. Without a past no future is possible.

The history of the company starts in early 60s, when the three FADINI brothers put up a small mechanical workshop specialized in oil-hydraulic agriculture machines.

The transformation from a family business into a larger industrial plant occurs though still in the late 70s, when the growing process begins and the company becomes worldwide known. Since 2010 the three founders are supported by their sons.

FADINI is a reality today and finds its place among the main players for the production and trade network in the automation field for gates, industrial and garage doors, road barriers, automatic, semiautomatic, removable and fixed bollards.

The company's philosophy has been the same since the foundation, and is characterized by a balanced combination of tradition and modernity, quality and reliability. FADINI exclusive though unmistakably recognizable products.

Today Meccanica FADINI s.n.c. is a leading company in gate automation, with sales and assistance outlets in more than 60 nations.

The plant is in Cerea (VR) and spreads over a total surface of more than 130.000 m<sup>2</sup>, 30.000 m<sup>2</sup> of which are ruffed, where automation systems for gates, garage doors, industrial doors and road barriers, as well as a complete, vast range of bollards, including oil-hydraulic, automatic retractable units, but also semiautomatic, removable and fixed posts are designed, manufactured and tested.



# 40 years of ideas, dedication and success.

Meccanica FADINI is a reality constantly in the vanguard for its technical choices and design, which is the result of the application of innovative technologies and targeted investments in research and development, leading to a constant progression in the business of the FADINI family. Today there are four factories, in Cerea and in the province of Vicenza, dedicated to the various production activities.



made in  
**100% Italy**





**FADINI**  
the gate opener





Mechanics has been our creed for more than 40 years. Today the most modern and efficient CNC machines of the latest generation can be find inside our factories.

Over the latest few years more than 30 patents have been registered by Meccanica Fadini in Europe and in other countries of the world for its own automatic systems.







## 1974

First operator for sliding gates. Meccanica FADINI is a pioneer in Italy and in the world in producing and trading automatic gate systems.



MEC 400



## 1991

Meccanica FADINI proves to be once again a company keen to meet the market requirements. It starts in this period to produce and trade the first oil-hydraulic automatic bollards.



STRABUC 918



## 2002

First high security, ram-raïd preventing, removable, armoured post. AISI 304 stainless steel external finish. Functional answer to those sites where a casing to sink in the ground or lack of electric power are the problem.



SIBLI 17



## 2004

A range of posts dedicated to the residential and collective markets are launched into the market. The posts are 100 or 200 mm in diameter, various heights available. LED lights on request. The new intuition and technical innovation consist in bringing the hydraulic unit out of the post, into the top of the ground casing in order to facilitate the access to it for installation or maintenance purposes.



CORAL - VIGILO





# history is not fantasy



## 2005

The first FADINI manual bollard is developed. Initially a mechanical spring inside the post helps pulling up, today the **GASPO 252** model is operated by two gas springs.

## 2005

A modular housing post is designed for applications in urban areas. On the top module it is possible to fit a LED traffic light for instance; inside the post there is space to house command and safety accessories, complementary to the bollards.

## 2006

**STRABUC 930 OPINAT** is approved and certified by the Ministry of Traffic of Italy in terms of safety, security and quality. The success of this bollard is testified by hundreds of units that daily work in the squares, city centres, pedestrian areas of small and large Italian cities.

## 2010

Meccanica FADINI completes its range of automatic bollards with a range of fixed posts. Each automatic unit is also available in a fixed version having the same design, with LED lights as an option.



MASPI 241



VISUAL 344



STRABUC 930 OPINAT



Fixed bollards



2016



Statue of Leonidas  
king of the city-state of Sparta  
Thermopylae, Greece

# TALOS

Oil-hydraulic automatic bollard.

Studied and produced to be the answer to the demand for functionality and security in access and perimeter protection in public and private applications.

The Talos series includes also a complete range of semiautomatic and fixed bollards.

SAFETY, SECURITY & PROTECTION







30<sup>th</sup> March 2016 – Crash test at Aisico s.r.l., Pereto (AQ), Italy.

# TALOS M50

High security oil-hydraulic automatic bollard, recommended for vulnerable sites and all those areas where a high level of security and perimeter protection against terrorist attacks are demanded.



CERTIFICATION:  
**ASTM F2656-15 C750**  
(an even more severe standard than M50 former K12)



CERTIFICATION:  
**PAS 68:2013 V/7500 (N3)/80**



CERTIFICATION:  
**IWA 14-1:2013 V/7200 (N3C)/80**





## **CHOOSING FADINI MEANS CHOOSING QUALITY.**

We have applied our expertise in oil-hydraulic automation to the development of a complete range of automatic bollards fully retractable into the ground. We combine our passion for our work with the research for a better quality of life: we try to give concrete answers to real needs.

Our target is to provide new solutions with the lowest architectural, urban and environmental impact to delimit urban and private areas.

We want to protect buildings and sensitive zones, wherever a high level of security is in demand.

Where automatic bollards cannot be installed, a complete range of retractable semiautomatic posts, fixed and removable as well are available.

FADINI bollards have been successfully working every day all over the world for 25 years!





Esplanade - Singapore



Denmark



Lourdes - France



Denmark



Hamme - Belgium



Bergamo - Italy



Secreteria de Marina - Mexico



Caterpillar - Torreon Mexico



Schiphol airport Amsterdam



Paris - France



Praha Czech Republic



Paris - France



Australia



Czech Republic



Menaggio - Italy



Jesolo - Italy



Tirana - Albania

## 100% TOTAL CONTROL ON EACH SINGLE BOLLARD

In 2006 the Ministry of Transport of Italy, Road Transport Department Central Office, certified our quality and issued the certificate of approval No. 25477 confirming that the model STRABUC 930 OPINAT is suitable for installation in public zones and roads.

Numerous European and international patents are a guarantee that each FADINI bollard is unique.

FADINI bollards have the following features as standard, hot-dip galvanized ground casing certified in compliance with UNI EN ISO 1461, cathaphoresis treated and polyester powder coated post certified in compliance to the requirements of the EN ISO 9227 norms.



In our production workshops, we have developed specific equipment to carry out running tests before the bollards are sent out to buyers.

### **Climatic chamber**

We test the oil-hydraulic unit in specific working temperature conditions: -45°C and + 80°C.

In this way we improve the reliability of the component parts in extreme conditions.

### **Endurance test**

Each bollard is tested for one day long during which real situations are simulated and complete opening and closing, intensive working cycles are run. The endurance tests on rising and lowering cycles have confirmed that our bollards are trouble free units, no failure and no special maintenance required.





### Crash test

We have constructed specific structures to carry out crash tests and simulate real impacts with vehicles.

An enormous pendulum, consisting of a non deformable mass of 1.000 kg, allows to calculate the values of resistance to impact and breakout, and test the quality of the structural components of our bollards.

The calculations related to the various models are available on request. They have been made by professional engineers, entitled to certify the structural features and resistance values of our bollards.



A single TALOS M50 has successfully passed the crash test as it has been able to withstand the impact of a 7,5 t truck at a speed of 80 km/h and keep intact and functional. Meccanica Fadini is the first manufacturer that has obtained all the most important and latest world certificates for the TALOS M50:

**ASTM F2656-15 C750** (a test even more severe than the M50, former K12)

**PAS 68:2013 V/7500(N3)/80**

**IWA 14-1:2013 V/7200 [N3C]/80**



Talos M50  
Crash Test



# A vast choice of customized options

- Polyester powder coated post(RAL colours available on request), inox version in AISI 304 or AISI 316 stainless steel.

With both stainless steel options, post thickness is 4 mm, to highlight the quality of the materials used.

- Various post diameters and heights available to meet any requirements.

Acoustic device to signal the movements of the bollard.

- E.A.R. 35

an Emergency Acoustic Receiver that picks up the signal emitted by the emergency sirens of the vehicles used by Public Officers, Security and Rescue and allows for a cleared access by driving the bollard down.

- Security plate

that does not allow access to the manual release, complete with a KIT of 4 burglarproof screws.

- Active safety when the solenoid valve is fitted; in case power supply is interrupted, the bollard descends by gravity.

- KIT of heating cable or heating device

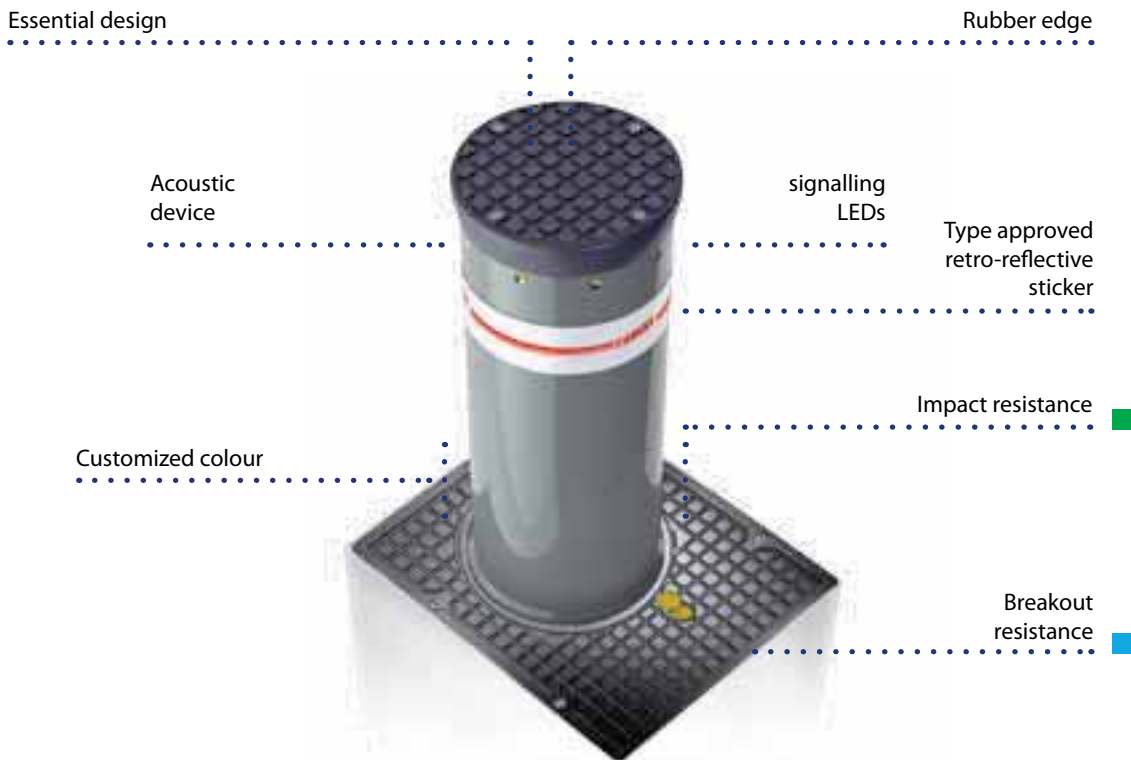
A solution allowing for the bollards to be used even in extremely low temperature conditions, -40 °C and lower

- Post top edge fitted with rubber ring for pedestrians' safety.

- ELPRO S40

A single electronic controller for all our types of automatic bollards, it can manage up to 4 units simultaneously.





**SOIL PERMEABILITY**

Before installing the bollards, inspect soil and permeability most of all. A very simple test consists in digging a hole in the soil, provide a drainage layer and make sure that water is allowed to soak away in short time (50 litres/13,2 gal of water must be able to flow away in no longer than 30/40 minutes).

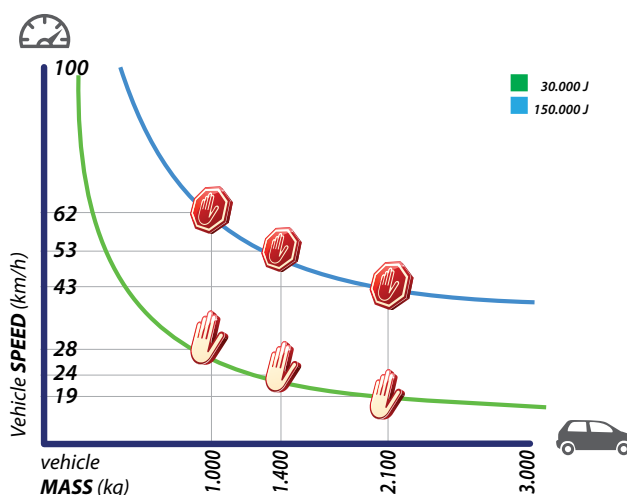
If not, it is advisable that water be conveyed into a separate tank where an electric pump is to be provided.

**MAINTENANCE**

FADINI automatic and semiautomatic bollards do not require particular maintenance, they are designed and produced for heavy duty applications.

It is though recommended that a periodically programmed maintenance be carried out in accordance with the features and type of installation.

*an example of diagram*



*Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated in the diagram even significantly.*



# FADINI technology

## Solutions with quality and reliability.

Symbols and description in the catalogue.

### APPLICATIONS LEGEND



Residential and commercial



Industrial



Urban design

### PRODUCT LINE LEGEND



#### AUTOMATIC BOLLARDS



Oil-hydraulic retractable bollards



#### SEMIAUTOMATIC, REMOVABLE AND FIXED BOLLARDS



Semiautomatic



Semiautomatic for energy



Removable



Fixed

## LED

---



The LED technology allows to save 95% of energy and duration is 50 times higher than an incandescent lamp. High luminosity and visibility.  
Environment friendly, being in compliance with 2005/32/CE Directive.

## -40 °C

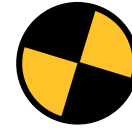
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Technology allowing the operator to be used in environments with extremely low temperatures, beyond - 40 °C, without risk of freezing.  
Specific accessories are available to meet the various application requirements:  
HELIOS 29 card (page 44), heating cable (page 45), heating device (page 47).

## CRASH TEST

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Bollard having a certified crash test.

## HRC

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In the HRC version (High Resistance Cylinder) the post (in raised position) stays embedded into the casing 40 cm (constraint) rather than 20 cm as in the standard version, thus ensuring a higher degree of resistance to impact and breakout.

## IMPACT RESISTANCE

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In case of impact with a vehicle, the bollard is damaged but it is still able to operate properly.  
A general inspection is advisable to assess the status of the installation.

## BREAKOUT RESISTANCE

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In case of impact with a vehicle, the bollard is damaged to such an extent that correct functioning is jeopardized.  
The vehicle cannot overcome the bollard, though.  
Service is needed.



## OIL-HYDRAULIC FULLY RETRACTABLE AUTOMATIC BOLLARDS

### **CORAL**

1050 – 1063 – 1080

*page 22*



### **VIGILO**

2250 – 2263 – 2280

*page 26*

### **TALOS**

9450 – 9460 – 9470 – 9480 – 9450/HRC – 9460/HRC – 9470/HRC – 9480/HRC

*page 30*

### **TALOS**

9651 – 9661 – 9671 – 9681 – 9651/HRC – 9661/HRC – 9671/HRC – 9681/HRC

*page 34*

### **TALOS M30**

*page 38*

### **TALOS M50**

*page 40*

### **STRABUC 930 OPINAT**

*page 42*

Specific accessories for the automatic bollards

*page 44*

Specific accessories for the TALOS automatic bollards

*page 46*



## CONTROL UNITS

### **ELPRO S20**

*page 50*

### **ELPRO S40**

*page 51*

### **ELPRO S50**

*page 52*



### **VISUAL 344**

*page 54*





**SEMIAUTOMATIC, REMOVABLE AND FIXED BOLLARDS**



Semiautomatic bollards

**GASPO 252**

page 56

**GASMA 922**

page 57

**TALOS series**

page 58



Semiautomatic bollards for energy

**GASPO 254**

page 56

**GASMA 500**

page 57



Removable bollards

**SIBLI 17**

page 60

**POSTO 20/22**

page 60

**VIMARI 2316**

page 61

**STRAMARI 2320**

page 61



Fixed bollards

**SICU 18**

page 62

**CORAL series**

page 62

**VIGILO series**

page 63

**TALOS series**

page 64

Specific accessories for semiautomatic, removable and fixed bollards

page 66

EXAMPLES OF INSTALLATIONS

page 67

ITEM CODE NUMBER PROGRESSIVE INDEX

page 74





## OIL-HYDRAULIC FULLY RETRACTABLE AUTOMATIC BOLLARDS



SERIES  
**CORAL** Ø 100  
page 22/25

H 500 CORAL 1050  
H 600 CORAL 1063  
H 800 CORAL 1080



SERIES  
**VIGILO** Ø 200  
page 26/29

H 500 VIGILO 2250  
H 600 VIGILO 2263  
H 800 VIGILO 2280



SERIES  
**TALOS** Ø 275  
page 30/41

4 mm thickness  
page 30/33



H 500 TALOS 9450  
H 600 TALOS 9460  
H 700 TALOS 9470  
H 800 TALOS 9480

H 500 TALOS 9450/HRC  
H 600 TALOS 9460/HRC  
H 700 TALOS 9470/HRC  
H 800 TALOS 9480/HRC

12 mm thickness  
page 34/37



H 500 TALOS 9651  
H 600 TALOS 9661  
H 700 TALOS 9671  
H 800 TALOS 9681

H 500 TALOS 9651/HRC  
H 600 TALOS 9661/HRC  
H 700 TALOS 9671/HRC  
H 800 TALOS 9681/HRC

12 mm thickness

**TALOS M30**  
page 38/39

20 mm thickness



**TALOS M50**  
page 40/41



**STRABUC 930 OPINAT**  
page 42/43





## SEMIAUTOMATIC, REMOVABLE AND FIXED BOLLARDS



### SEMIAUTOMATIC BOLLARDS

page 56/59



Ø 200  
H 500

#### GASPO 252

page 56

Ø 275  
H 700

#### GASMA 922

page 57

Ø 275  
H 500 / 600 / 700 / 800

#### SERIES

#### TALOS

page 58/59



Ø 200  
H 500

#### GASPO 254

page 56



Ø 275  
H 500

#### GASMA 500

page 57



### REMOVABLE BOLLARDS

page 60/61



■ 120 x 120  
H 780

#### SIBLI 17

page 60

■ 50 x 50  
H 920

#### POSTO 20 / 22

page 60

Ø 200  
H 500 / 800

#### VIMARI 2316

page 61

Ø 275  
H 700

#### STRAMARI 2320

page 61



### FIXED BOLLARDS

page 62/65



■ 120 x 120  
H 780

#### SICU 18

page 62

Ø 100

#### SERIES

#### CORAL

page 62

Ø 200

#### SERIES

#### VIGILO

page 63

Ø 275

#### SERIES

#### TALOS

page 64/65



## Fully retractable oil-hydraulic bollards.

- **Designed and manufactured**

to control or stop traffic from private and public driveways, car parks and urban accesses in general.

Post diameter 100 mm. Various height options and led lights available. Rubber band around the post edge. Magnetic limit switches as a standard.

- **Oil-hydraulic**

easy and quick to access the hydraulic drive unit and piston. Manual override by spanner to lower the post. Tested to ensure heavy duty performance even at low or high temperatures. Simple maintenance.

- **Simple and quick to install**

thanks to a reduced weight and the ground casing, no particular excavation or brick works are needed. Each electric cable is (standard) 10 m in length.

- **Versatile**

a vast range of accessories for command (transmitters, tags, digipads, etc.) and safety (magnetic loop detector, traffic lights, etc.) allow for reliable and precise control of the installations.

The electronic controller **ELPRO S40** manages up to four bollards simultaneously.



Installation with Coral



Installation with Coral, led version



Installation with Coral



Magnetic limit switch



## TECHNICAL DATA

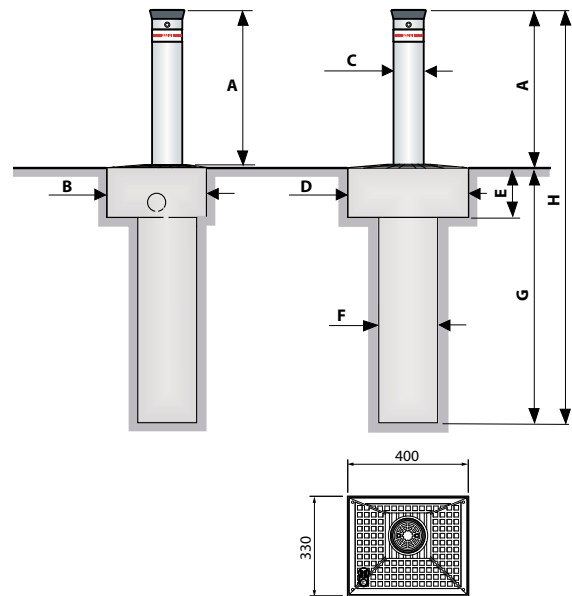
	CORAL 1050	CORAL 1063	CORAL 1080
Post diameter	Ø 100 mm	Ø 100 mm	Ø 100 mm
Post thickness	5 mm	5 mm	5 mm
Post height	500 mm	600 mm	800 mm
Post material	steel S235J		
Finish	RAL 7016 polyester powder coating		
Ground Casing	hot dip galvanized		
Rising time [speed]	~ 4,7 s [11 cm/s]	~ 5,6 s [11 cm/s]	~ 7,5 s [11 cm/s]
Lowering time [speed]	~ 4,4 s [12 cm/s]	~ 5,1 s [12 cm/s]	~ 6,6 s [12 cm/s]
Working temperature	-20 °C +80 °C (*)		
Oil type	FADINI oil code 708L		
Power supply	230 Vac - 50 Hz		
Absorbed power	330 W		
Absorbed current	1,8 A		
Power output	0,25 kW (0,33 HP)		
Protection class of oil-hydraulic motor-pump	IP 67		
Frequency of use	intensive		
Impact resistance	30.000 J		
Breakout resistance	150.000 J		
Weight	86 kg	90 kg	104 kg

(\*) -40 °C with specific optional accessories, see page 17.

For a correct installation always consult the specific instructions manual.

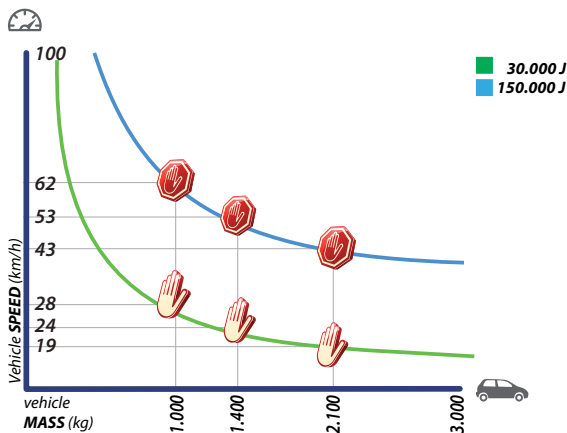
Check soil permeability and in case provide a rain water drain system at the base of the casing.

## OVERALL DIMENSIONS



Each bollard comes with 10 meters of electric cables for motor, limit switches, solenoid valve, led lights where fitted.

Overall dimensions (mm)	A	B	C	D	E	F	G	H
CORAL 1050	500	330	Ø100	400	170	Ø195	850	1.350
CORAL 1063	600	330	Ø100	400	170	Ø195	960	1.560
CORAL 1080	800	330	Ø100	400	170	Ø195	1.140	1.940



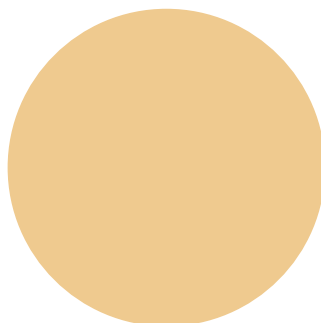
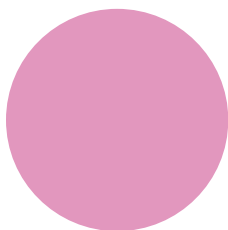
Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated in the diagram even significantly.

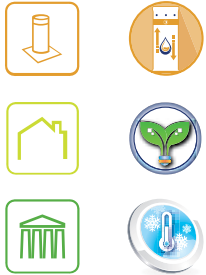
Item code No.	Model	Specifications			Signalling LEDs (*)	Solenoid valve (24 Vdc)
		Post diameter (mm)	Height (mm)	Finish		
<b>1050L</b>	CORAL 1050	100	500	RAL 7016 anthracite grey		
<b>1059L</b>	CORAL 1063	100	600	RAL 7016 anthracite grey		
<b>1080L</b>	CORAL 1080	100	800	RAL 7016 anthracite grey		
<b>1052L</b>	CORAL 1050	100	500	RAL 7016 anthracite grey		✓
<b>1063L</b>	CORAL 1063	100	600	RAL 7016 anthracite grey		✓
<b>1082L</b>	CORAL 1080	100	800	RAL 7016 anthracite grey		✓
<b>1054L</b>	CORAL 1050	100	500	RAL 7016 anthracite grey	✓	
<b>1064L</b>	CORAL 1063	100	600	RAL 7016 anthracite grey	✓	
<b>1084L</b>	CORAL 1080	100	800	RAL 7016 anthracite grey	✓	
<b>1057L</b>	CORAL 1050	100	500	RAL 7016 anthracite grey	✓	✓
<b>1067L</b>	CORAL 1063	100	600	RAL 7016 anthracite grey	✓	✓
<b>1087L</b>	CORAL 1080	100	800	RAL 7016 anthracite grey	✓	✓

**NOTE:** Retractable post operated by an oil-hydraulic ram, with an incorporated oil-hydraulic motor pump. 230 V power supply, 10 m electric cables. Magnetic limit switches as standard. Cataphoresis treated and polyester powder coated S235J steel post. Type-approved back-reflecting sticker. Special spanner included in the equipment to lower the post by hand. All of the models come complete with hot dip galvanized ground casing for concrete embedding. The cylinder housing the piston- oil-hydraulic motor-pump assembly is electrolytic galvanized. With each bollard fitted with a solenoid valve, a 24 V voltage stabilizer is to be used, item No. 9321L.

(\*) All of the posts are standard pre-bored to take 4 led lights and plastic plugs, whose design is the same as the lights, are fitted to cover the holes. On request, the led lights are directly fitted on to the post on assembly phase in the factory.

Specific accessories for the bollards are on page 44 - 48.





## Fully retractable oil-hydraulic bollards.

- **Designed and manufactured**

to control or stop traffic from private and public driveways, car parks and urban accesses in general.

Post diameter 200 mm.

Various height options and led lights available.

Rubber band around the post edge to control or stop traffic from private and public driveways, car parks and urban accesses in general. Post diameter 200 mm. Various height options and led lights available. Rubber band around the post edge. Magnetic limit switches as a standard.

- **Oil-hydraulic**

easy and quick to access the hydraulic drive unit and piston. Manual override by spanner to lower the post. Tested to ensure heavy duty performance even at low or high temperatures. Simple maintenance.

- **Simple and quick to install**

thanks to a reduced weight and the ground casing, no particular excavation or brick works are needed.

Each electric cable is (standard) 10 m in length.

- **Versatile**

a vast range of accessories for command (transmitters, tags, digipads, etc.) and safety (magnetic loop detector, traffic lights, etc.) allow for reliable and precise control of the installations.

The electronic controller **ELPRO S40** manages up to four bollards simultaneously.



Examples of installation



Oil-hydraulic drive unit



Residential car park



# Vigilo

## 2250 - 2263 - 2280



### TECHNICAL DATA

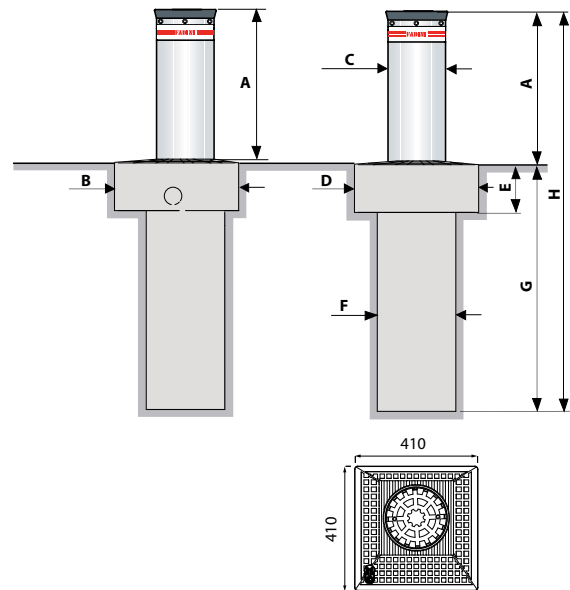
	VIGILO 2250	VIGILO 2263	VIGILO 2280
Post diameter	Ø 200 mm	Ø 200 mm	Ø 200 mm
Post thickness	4 mm	4 mm	4 mm
Post height	500 mm	600 mm	800 mm
Post material	S235J steel		
Finish	RAL 7016 polyester powder coating		
Post material stainless steel	AISI 304		
Ground Casing	hot dip galvanized		
Rising time [speed]	~ 5,1 s [10 cm/s]	~ 5,9 s [10 cm/s]	~ 7,7 s [10 cm/s]
Lowering time [speed]	~ 4,3 s [12 cm/s]	~ 5,2 s [12 cm/s]	~ 7,0 s [12 cm/s]
Working temperature	-20 °C +80 °C (*)		
Oil type	FADINI oil code 708L		
Power supply	230 Vac - 50 Hz		
Absorbed power	330 W		
Absorbed current	1,8 A		
Power output	0,25 kW (0,33 HP)		
Protection class of oil-hydraulic motor-pump	IP 67		
Frequency of use	intensive		
Impact resistance	30.000 J		
Breakout resistance	160.000 J		
Weight	102 kg	110 kg	131 kg

(\*) -40 °C with specific optional accessories, see page 17.

For a correct installation always consult the specific instructions manual.

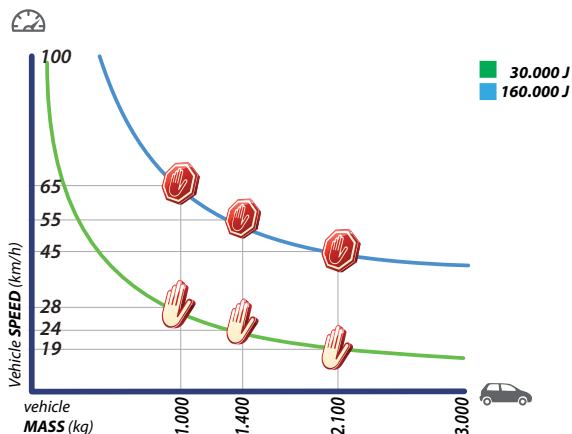
Check soil permeability and in case provide a rain water drain system at the base of the casing.

### OVERALL DIMENSIONS



Each bollard comes with 10 meters of electric cables for motor, limit switches, solenoid valve, led lights where fitted.

Overall dimensions (mm)	A	B	C	D	E	F	G	H
VIGILO 2250	500	410	Ø 200	410	170	Ø 275	850	1.350
VIGILO 2280	600	410	Ø 200	410	170	Ø 275	960	1.560
VIGILO 2263	800	410	Ø 200	410	170	Ø 275	1.140	1.940



Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated in the diagram even significantly.

Item code No.	Model	Specifications			Signalling LEDs (*)	Solenoid valve (24 Vdc)
		Post diameter (mm)	Height (mm)	Post finish		
<b>2250L</b>	VIGILO 2250	200	500	RAL 7016 anthracite grey		
<b>2263L</b>	VIGILO 2263	200	600	RAL 7016 anthracite grey		
<b>2280L</b>	VIGILO 2280	200	800	RAL 7016 anthracite grey		
<b>2252L</b>	VIGILO 2250	200	500	RAL 7016 anthracite grey		✓
<b>2273L</b>	VIGILO 2263	200	600	RAL 7016 anthracite grey		✓
<b>2282L</b>	VIGILO 2280	200	800	RAL 7016 anthracite grey		✓
<b>2255L</b>	VIGILO 2250	200	500	AISI 304 SS steel brushed		
<b>2274L</b>	VIGILO 2263	200	600	AISI 304 SS steel brushed		
<b>2288L</b>	VIGILO 2280	200	800	AISI 304 SS steel brushed		
<b>2257L</b>	VIGILO 2250	200	500	AISI 304 SS steel brushed		✓
<b>2276L</b>	VIGILO 2263	200	600	AISI 304 SS steel brushed		✓
<b>2289L</b>	VIGILO 2280	200	800	AISI 304 SS steel brushed		✓
<b>2264L</b>	VIGILO 2250	200	500	RAL 7016 anthracite grey	✓	
<b>2271L</b>	VIGILO 2263	200	600	RAL 7016 anthracite grey	✓	
<b>2294L</b>	VIGILO 2280	200	800	RAL 7016 anthracite grey	✓	
<b>2267L</b>	VIGILO 2250	200	500	RAL 7016 anthracite grey	✓	✓
<b>2279L</b>	VIGILO 2263	200	600	RAL 7016 anthracite grey	✓	✓
<b>2297L</b>	VIGILO 2280	200	800	RAL 7016 anthracite grey	✓	✓
<b>2266L</b>	VIGILO 2250	200	500	AISI 304 SS steel brushed	✓	
<b>2277L</b>	VIGILO 2263	200	600	AISI 304 SS steel brushed	✓	
<b>2296L</b>	VIGILO 2280	200	800	AISI 304 SS steel brushed	✓	
<b>2268L</b>	VIGILO 2250	200	500	AISI 304 SS steel brushed	✓	✓
<b>2299L</b>	VIGILO 2263	200	600	AISI 304 SS steel brushed	✓	✓
<b>2298L</b>	VIGILO 2280	200	800	AISI 304 SS steel brushed	✓	✓

**NOTE:** Retractable post operated by an oil-hydraulic ram, with an incorporated oil-hydraulic motor pump.

230 V power supply, 10 m electric cables. Magnetic limit switches as standard.

Cataphoresis treated and polyester powder coated S235J steel post ( AISI 304 stainless steel/innox post according to item code number).

Type-approved back-reflecting sticker.

Special spanner included in the equipment to lower the post by hand.

All of the models come complete with hot dip galvanized ground casing for concrete embedding.

The cylinder housing the piston- oil-hydraulic motor-pump assembly is electrolytic galvanized.

With each bollard fitted with a solenoid valve, a 24 V voltage stabilizer is to be used, item No. 9321L.

(\*) All of the posts are standard pre-bored to take 8 led lights and plastic plugs, whose design is the same as the lights, are fitted to cover the holes. On request, the led lights are directly fitted on to the post on assembly phase in the factory.

Specific accessories for the bollards are on page 44 - 48.



# Talos

9450 – 9460 – 9470 – 9480

9450/HRC – 9460/HRC – 9470/HRC – 9480/HRC



## Fully retractable oil-hydraulic automatic bollard

### • Studied and manufactured

to be the ANSWER to the demand for functionality and security to protect any public or private vehicle access.

### • Quick and quiet operations

the motor-pump is located in the upper part of the casing. Led lights make the post well visible. 275 mm post diameter, 4 mm thickness, 500/600/700/800 mm post heights. Available also with post in stainless steel inox AISI 304 and inox AISI 316 options.

Customized on demand in any RAL colours, polyester powder coating.

Rubber edge on post head. Triangular profile spanner to override for manual descent of the post.

HRC (High Resistance Cylinder) post option: breakout resistance 420.000 J.

### • Quality of the materials

the entire structure is treated with electrolytic galvanization, while the foundation casing is hot dip galvanized.

Cable junction box and connector are IP 66.

Working temperature -40 °C +80 °C.

### • Halved times

replacing the post in case of impact has never been so quick.

### • Versatile

a large range of commanding accessories (tags, key-pads, etc.) and security devices (loop detector, traffic lights, beeper signalling the post movements, 24 Vdc solenoid valve for the post to lower in case power supply is disconnected, obstacle detector to prevent the post from rising when an obstacle is on it, burglar-proof cover plate, etc.) to ensure the most efficient and precise control over the systems.

The ELPRO S40 electronic controller can manage up to 4 bollards simultaneously.



Examples of installation

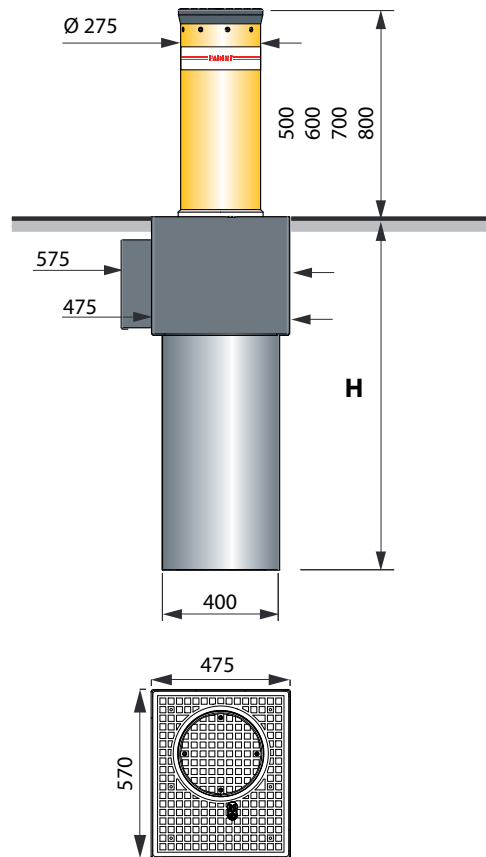
Oil-hydraulic motor-pump



## TECHNICAL DATA

Post diameter	Ø 275 mm
Post thickness	4 mm
Post height	500/600/700/800 mm
Post material	S235J steel
Post finish	polyester powder coating RAL 1028
Post material inox version	AISI 304 / AISI 316 stainless steel
Foundation casing	hot dip galvanized
Working temperature	-20 °C +80 °C (-40 °C +80 °C with heater)
Oil type	FADINI oil code 708L
Power supply	230 Vac - 50 Hz
Absorbed power	1.100 W
Absorbed current	1,8 ÷ 3,5 A
Protection class of oil-hydraulic motor-pump	IP 67
Frequency of use	very intensive
Impact resistance	52.000 J model HRC – 70.000 J
Breakout resistance	320.000 J model HRC – 420.000 J
Max. Static load	20.000 kg

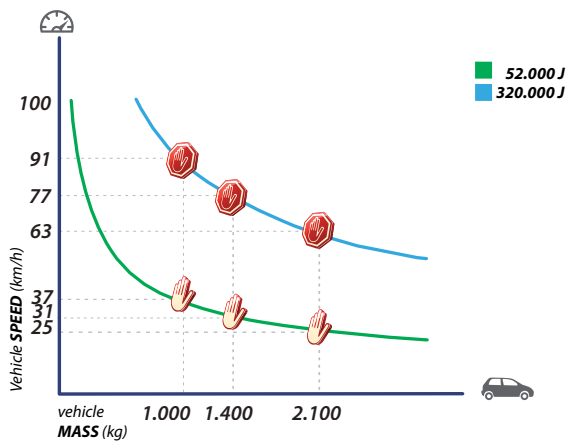
## OVERALL DIMENSIONS



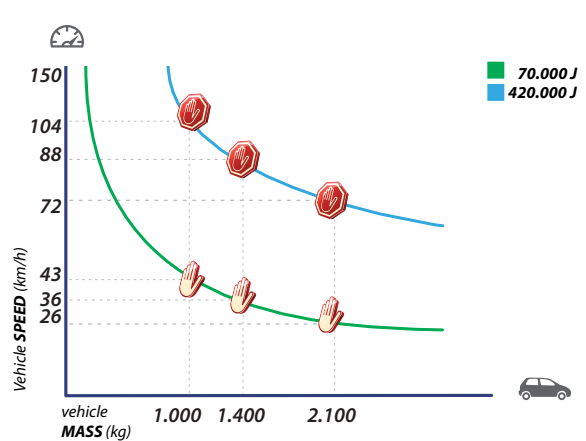
Post travel (mm)	Constraint (mm)	H (mm)
	200	830
<b>500</b>	200	1.010 (*)
	400	1.010
<b>600</b>	200	1.010
	400	1.210
<b>700</b>	200	1.010
	400	1.210
<b>800</b>	200	1.210
	400	1.310

(\*) Foundation casing on request, not standard

### 4 mm















### 4 mm / HRC



Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated in the diagram even significantly.

Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated in the diagram even significantly.

Item code No.	Model	Post diameter 275 mm				Post finish	Rising time (s) Speed [cm/s]	Lowering time (s) Speed [cm/s]
		Height (mm)	Thickness (mm)	Constraint (mm)	Post finish			
<b>9450L</b>	TALOS 9450	500	4	200	RAL 1028 melon yellow	196	(~2,14) [23]	(~2,00) [25]
<b>9460L</b>	TALOS 9460	600	4	200	RAL 1028 melon yellow	226	(~2,57) [23]	(~2,40) [25]
<b>9470L</b>	TALOS 9470	700	4	200	RAL 1028 melon yellow	232	(~3,00) [23]	(~2,80) [25]
<b>9480L</b>	TALOS 9480	800	4	200	RAL 1028 melon yellow	240	(~3,42) [23]	(~3,20) [25]
<b>9450HL</b>	TALOS 9450/HRC	500	4	 400	RAL 1028 melon yellow	202	(~2,14) [23]	(~2,00) [25]
<b>9460HL</b>	TALOS 9460/HRC	600	4	 400	RAL 1028 melon yellow	234	(~2,57) [23]	(~2,40) [25]
<b>9470HL</b>	TALOS 9470/HRC	700	4	 400	RAL 1028 melon yellow	240	(~3,00) [23]	(~2,80) [25]
<b>9480HL</b>	TALOS 9480/HRC	800	4	 400	RAL 1028 melon yellow	246	(~3,42) [23]	(~3,20) [25]
<b>9450A4L</b>	TALOS 9450	500	4	200	AISI 304 SS steel brushed	196	(~2,14) [23]	(~2,00) [25]
<b>9460A4L</b>	TALOS 9460	600	4	200	AISI 304 SS steel brushed	226	(~2,57) [23]	(~2,40) [25]
<b>9470A4L</b>	TALOS 9470	700	4	200	AISI 304 SS steel brushed	232	(~3,00) [23]	(~2,80) [25]
<b>9480A4L</b>	TALOS 9480	800	4	200	AISI 304 SS steel brushed	245	(~3,42) [23]	(~3,20) [25]
<b>9450A4HL</b>	TALOS 9450/HRC	500	4	 400	AISI 304 SS steel brushed	202	(~2,14) [23]	(~2,00) [25]
<b>9460A4HL</b>	TALOS 9460/HRC	600	4	 400	AISI 304 SS steel brushed	235	(~2,57) [23]	(~2,40) [25]
<b>9470A4HL</b>	TALOS 9470/HRC	700	4	 400	AISI 304 SS steel brushed	242	(~3,00) [23]	(~2,80) [25]
<b>9480A4HL</b>	TALOS 9480/HRC	800	4	 400	AISI 304 SS steel brushed	248	(~3,42) [23]	(~3,20) [25]
<b>9450A6L</b>	TALOS 9450	500	4	200	AISI 316 SS steel brushed	196	(~2,14) [23]	(~2,00) [25]
<b>9460A6L</b>	TALOS 9460	600	4	200	AISI 316 SS steel brushed	226	(~2,57) [23]	(~2,40) [25]
<b>9470A6L</b>	TALOS 9470	700	4	200	AISI 316 SS steel brushed	232	(~3,00) [23]	(~2,80) [25]
<b>9480A6L</b>	TALOS 9480	800	4	200	AISI 316 SS steel brushed	240	(~3,42) [23]	(~3,20) [25]
<b>9450A6HL</b>	TALOS 9450/HRC	500	4	 400	AISI 316 SS steel brushed	202	(~2,14) [23]	(~2,00) [25]
<b>9460A6HL</b>	TALOS 9460/HRC	600	4	 400	AISI 316 SS steel brushed	226	(~2,57) [23]	(~2,40) [25]
<b>9470A6HL</b>	TALOS 9470/HRC	700	4	 400	AISI 316 SS steel brushed	234	(~3,00) [23]	(~2,80) [25]
<b>9480A6HL</b>	TALOS 9480/HRC	800	4	 400	AISI 316 SS steel brushed	246	(~3,42) [23]	(~3,20) [25]

NOTE: each item is supplied with a hot dip galvanized casing.

NOTE: each item comes complete with:

S235J steel, cathoresis treated, powder-coated (stainless steel AISI 304 or AISI 316 where demanded) post, complete with 9 leds, approved reflecting sticker and top rubber edge. Oil-hydraulic motor-pump (230 Vac – 50 Hz power supply) located in the upper part of the ground casing. Magnetic limit switches for post in lowered and raised positions. Junction box with IP 66 connector (the electric power supply cable is a separate item). Special release spanner with triangular socket for manual lowering of the post.

Specific accessories for the bollards are on page 44 - 48.





## Fully retractable oil-hydraulic automatic bollard

### • Studied and manufactured

when protection and confidence in it are major needs. Anti-breakout and anti-tip maximum security, an ideal solution for the protection of car parks, shops, entries to commercial centres, banks, car saloons and in general all those sensitive areas needing safeguard.

### • Quick and quiet operations

the motor-pump is located in the upper part of the casing. Led lights make the post well visible. 275 mm post diameter, 12 mm thickness, 500/600/700/800 mm post heights. Customized on demand in any RAL colours, polyester powder coating. Rubber edge on post head. Triangular profile spanner to override for manual descent of the post. HRC (High Resistance Cylinder) post option: breakout resistance 550.000 J.

### • Quality of the materials

the entire structure is treated with electrolytic galvanization, while the foundation casing is hot dip galvanized. Cable junction box and connector are IP 66. Working temperature -40 °C +80 °C.

### • Versatile

a large range of commanding accessories (tags, key-pads, etc.) and security devices (loop detector, traffic lights, beeper signalling the post movements, 24 Vdc solenoid valve for the post to lower in case power supply is disconnected, obstacle detector to prevent the post from rising when an obstacle is on it, burglar-proof cover plate, etc.) to ensure the most efficient and precise control on the systems. The ELPRO S40 electronic controller can manage up to 4 bollards simultaneously.



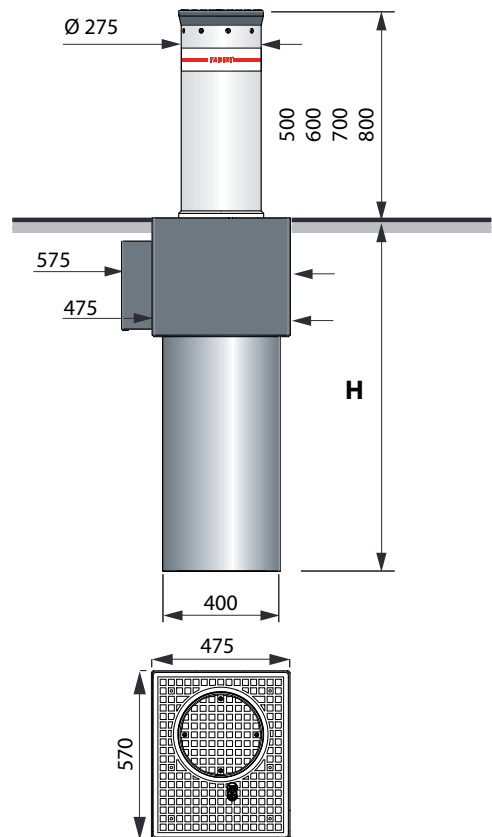
Examples of installation



## TECHNICAL DATA

Post diameter	Ø 275 mm
Post thickness	12 mm
Post height	500/600/700/800 mm
Post material	S355J steel
Post finish	polyester powder coating RAL 7016
Foundation casing	hot dip galvanized
Working temperature	-20 °C +80 °C (-40 °C+80 °C with heater)
Oil type	FADINI oil code 708L
Power supply	230 Vac - 50 Hz
Absorbed power	1.100 W
Absorbed current	1,8 A
Protection class of oil-hydraulic motor-pump	IP 67
Frequency of use	very intensive
Impact resistance	60.000 J model HRC – 90.000 J
Breakout resistance	450.000 J model HRC – 550.000 J
Max. static load	20.000 kg

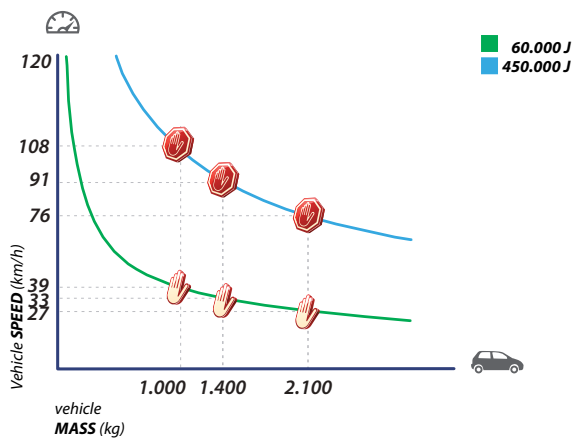
## OVERALL DIMENSIONS



Post travel (mm)	Constraint (mm)	H (mm)
	200	830
500	200	1.010 (*)
	400	1.010
600	200	1.010
	400	1.210
700	200	1.010
	400	1.210
800	200	1.210
	400	1.310

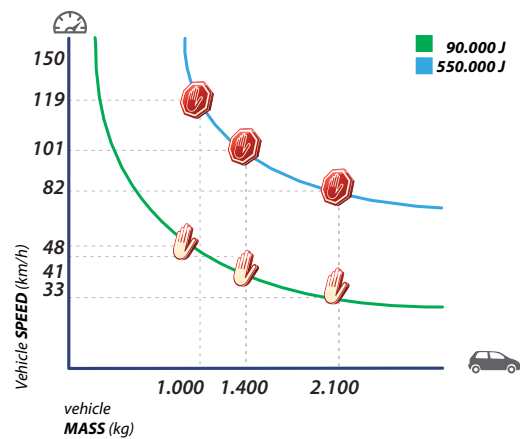
(\*) Foundation casing on request, not standard

### 12 mm







Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated in the diagram even significantly.

### 12 mm / HRC



Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated in the diagram even significantly.

# Talos

Item code No.	Model	Post diameter 275 mm				Weight (kg)	Rising time (s) Speed [cm/s]	Lowering time (s) Speed [cm/s]
		Height (mm)	Thickness (mm)	Constraint (mm)	Post finish			
<b>9651L</b>	TALOS 9651	500	12	200	RAL 7016 anthracite grey	234	(~2,80) [18]	(~2,14) [23]
<b>9661L</b>	TALOS 9661	600	12	200	RAL 7016 anthracite grey	258	(~3,40) [18]	(~2,57) [23]
<b>9671L</b>	TALOS 9671	700	12	200	RAL 7016 anthracite grey	263	(~4,00) [18]	(~3,00) [23]
<b>9681L</b>	TALOS 9681	800	12	200	RAL 7016 anthracite grey	288	(~4,50) [18]	(~3,42) [23]
<b>9651HL</b>	TALOS 9651/HRC	500	12	 400	RAL 7016 anthracite grey	252	(~2,80) [18]	(~2,14) [23]
<b>9661HL</b>	TALOS 9661/HRC	600	12	 400	RAL 7016 anthracite grey	266	(~3,40) [18]	(~2,57) [23]
<b>9671HL</b>	TALOS 9671/HRC	700	12	 400	RAL 7016 anthracite grey	275	(~4,00) [18]	(~3,00) [23]
<b>9681HL</b>	TALOS 9681/HRC	800	12	 400	RAL 7016 anthracite grey	291	(~4,50) [18]	(~3,42) [23]

*NOTE: each item is supplied with a hot dip galvanized casing.*

*NOTE: each item comes complete with:*

*S355J steel, cathaphoresis treated, polyester powder coated post, complete with 9 leds, approved reflecting sticker and top rubber edge. Oil-hydraulic motor-pump (230 Vac – 50 Hz power supply) located in the upper part of the ground casing. Magnetic limit switches for post in lowered and raised positions. Junction box with IP 66 connector (the electric power supply cable is a separate item). Special release spanner with triangular socket for manual lowering of the post.*

*Specific accessories for the bollards are on page 44 - 48.*



# Talos M30



## Fully retractable oil-hydraulic automatic bollard

### • Designed

in compliance with ASTM/PAS 68 standards with some specific, structural components of the foundation casing.  
Suitable for heavy duty applications and for the protection of driveways to sensitive sites (anti-terrorism) such as military bases, embassies, banks, ministerial bodies, etc.

### • Quick and quiet operations

the motor-pump is located in the upper part of the casing.  
Led lights make the post well visible.  
275 mm post diameter, 12 mm thickness, 800 mm post height and 400 mm constraint (HRC).  
Customized on demand in any RAL colours, polyester powder coating.  
Rubber edge on post head.

### • Quality of the materials

the entire structure is treated with electrolytic galvanization, while the foundation casing is hot dip galvanized. Cable junction box and connector are IP 66.  
Working temperature -40 °C +80 °C.

### • Optional configurations

vast choice of commanding and safety accessories.  
The ELPRO S40 electronic controller can manage up to 4 bollards simultaneously.



Detail of the ground casing



Heater



IP 66 cable connector



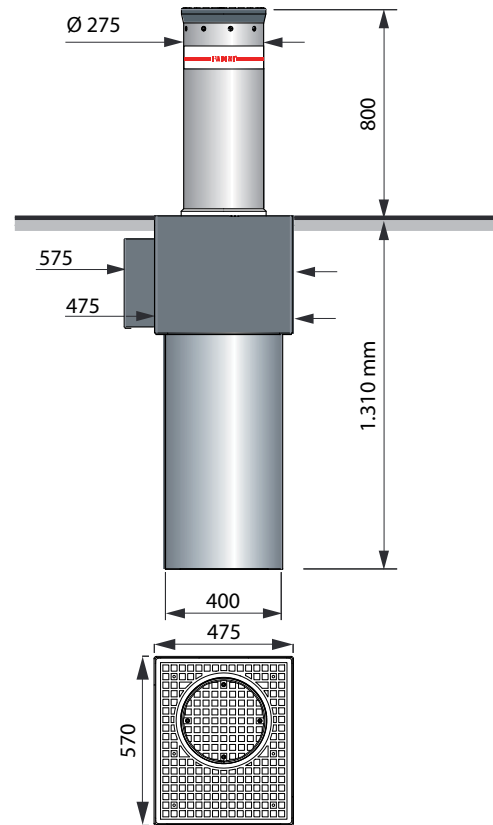
# Talos M30



## TECHNICAL DATA

Post diameter	Ø 275 mm
Post thickness	12 mm
Post height	800 mm
Post material	S355J steel
Post finish	polyester powder coating RAL 7016
Foundation casing	hot dip galvanized
Rising time [speed]	~4,50 s [18 cm/s]
Lowering time [speed]	~3,42 s [23 cm/s]
Working temperature	-20 °C +80 °C
Oil type	(-40 °C +80 °C with heater)
Oil type	FADINI oil code 708L
Power supply	230 Vac- 50 Hz
Absorbed power	1.100 W
Absorbed current	1,8 A
Protection class of oil-hydraulic motor-pump	IP 67
Frequency of use	very intensive
Impact resistance	150.000 J
Breakout resistance	700.000 J
Max. static load	20.000 kg

## OVERALL DIMENSIONS



Item code No.	Post diameter 275 mm				Weight (kg)	Rising time (s) Speed [cm/s]	Lowering time (s) Speed [cm/s]
	Height (mm)	Thickness (mm)	Constraint (mm)	Post finish			
9682L	800	12	400	RAL 7016 anthracite grey	291	(~4,50) [18]	(~3,42) [23]

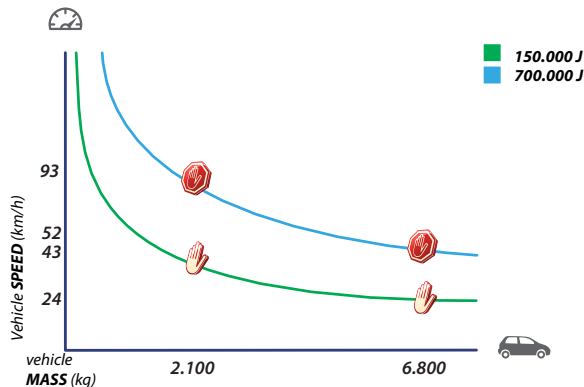
NOTE: each item is supplied with a hot dip galvanized casing.

NOTE: each item comes complete with:

S355J steel, cataphoresis treated, powder-coated post, complete with 9 leds, approved reflecting sticker and top rubber edge. Oil-hydraulic motor-pump (230 Vac – 50 Hz power supply) located in the upper part of the ground casing.

Magnetic limit switches for post in lowered and raised positions. Junction box with IP 66 connector (the electric power supply cable is a separate item).

Specific accessories for the bollards are on page 44 - 48.



Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated in the diagram even significantly.

# Talos M50



CERTIFICATION:  
**ASTM F2656-15 C750**  
(an even more severe standard than M50 former K12)



CERTIFICATION:  
**PAS 68:2013 V/7500 (N3)/80**



CERTIFICATION:  
**IWA 14-1:2013 V/7200 (N3C)/80**

Security oil-hydraulic automatic bollard, designed for heavy duty applications and recommended for the protection of special sites and all those areas where a high level of security and perimeter protection is needed to prevent terrorist attacks.

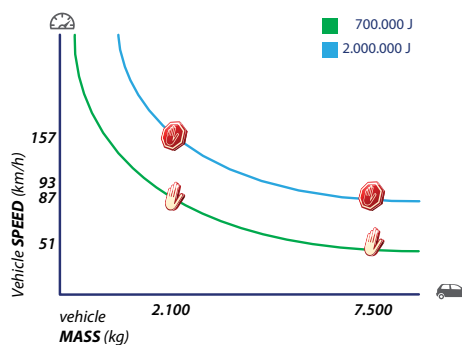
A single TALOS M50 has successfully passed the crash test being able to withstand the impact of a 7,5 t truck at a speed of 80 km/h without suffering any damage and be properly functional again.

Meccanica Fadini is the first manufacturer that has obtained all the currently most significant and internationally accredited certificates for its bollard type TALOS M50:

- **ASTM F2656-15 C750**  
(an even more severe standard than M50, former K12)
- **PAS 68:2013 V/7500 (N3)/80**
- **IWA 14-1:2013 V/7200 [N3C]/80**

In the upper part of the bollard foundation casing is located the oil-hydraulic drive unit, made up of two pumps. An oil-hydraulic locking device is incorporated to keep the post in standing position all the time, even in case of power failure. The bollard is equipped with: two magnetic limit switches, one for the post in raised position and one for the post in lowered position, led lights, type approved retro-reflective sticker, quick-release connector (protection grade IP 66) for the power supply cable. ELPRO S50 is the electronic controller specifically dedicated to it. TALOS M50 fixed version also available.

*Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated in the diagram even significantly*



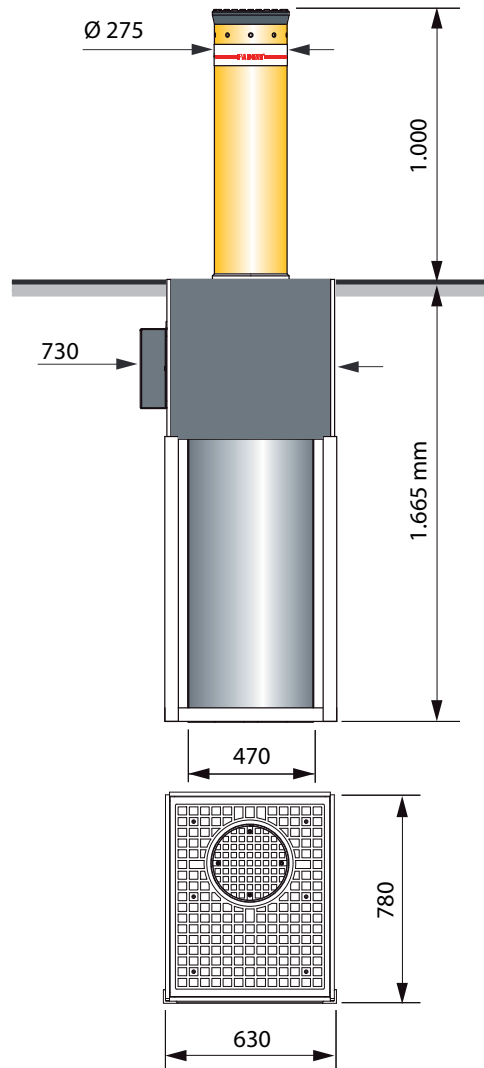
# Talos M50



## TECHNICAL DATA

## OVERALL DIMENSIONS

Post diameter	Ø 275 mm
Post thickness	20 mm
Post height	1.000 mm
Post material	S355J steel
Post finish	polyester powder coating
Foundation casing	hot dip galvanized
Rising time [speed]	~5,0 s [20 cm/s]
Lowering time [speed]	~3,2 s [31 cm/s]
Working temperature	-20 °C +80 °C (-40 °C+80 °C with heater)
Oil type	FADINI oil code 708L
Power supply	230 Vac - 50 Hz
Absorbed power	3.100 W (1.500+1.550)
Absorbed current	10÷13 A
Protection class of oil-hydraulic motor-pump	IP 67
Frequency of use	very intensive
Impact resistance	700.000 J
Breakout resistance	2.000.000 J
Max. static load	20.000 kg



Item code No.	Post diameter 275 mm				Weight (kg)	Rising time (s) Speed [cm/s]	Lowering time (s) Speed [cm/s]
	Height (mm)	Thickness (mm)	Constraint (mm)	Post finish (*)			
9690L	1000	20	500		770	(~5,0) [20]	(~3,2) [31]

NOTE: each item is supplied with its hot dip galvanized casing.

NOTE: each item comes complete with:

S355J steel, cataphoresis treated, polyester powder coated post, complete with 9 leds, approved reflecting sticker and top rubber edge. Special oil-hydraulic motor-pump (230 Vac – 50 Hz power supply) located in the upper part of the ground casing. Magnetic limit switches for post in lowered and raised positions. Junction box with IP 66 connector (the electric power supply cable is a separate item).

(\*) in RAL colours as available in the manufacturer's own list.

## SPECIFIC CONTROL UNITS



Item code No.	Description	Service	No. of TALOS M50 controlled	Housing box
9097L	ELPRO S50 - T1	Single-phase	1	✓ [310 x 425 x 160 mm]
9098L	ELPRO S50 - T2	Single-phase	2	✓ [405 x 500 x 200 mm]
9099L	ELPRO S50 - T3	Single-phase	3	✓ [405 x 500 x 200 mm]

# Strabuc 930 Opinat



OMOLOGAZIONE  
Decreto Ministero dei Trasporti D.D. 25477  
del 09/08/2006

## Type-approved retractable bollard for traffic control in public areas.

### • Developed

to control traffic in public streets.

It can be used to restrict/stop traffic from squares, city centres, street lanes, areas under traffic control, areas for pedestrians and town car parks. Minimum architectural, urban and environmental impact.

### • Fast and smooth movements

275 mm post diameter, 12 mm thickness, 700 mm height.

Simple to install thanks to the ground sleeve that comes with it.

10 m electric cables are provided as standard.

Led lights to improve visibility. Rubber band on post edge.

Manual override by spanner with triangular profile.

### • Certified safety

metal loop detector, beeper to signal the movements, traffic light, road sign, "safe crash" emergency button switch, solenoid valve (in case of power failure the post is allowed to descend in 5 seconds), E.A.R 35 (Emergency Acoustic Receiver operated by the sirens of the police, fire brigades, ambulances, rescue teams etc.): all these accessories make the installation reliable and guaranteed.

Ministry Approval dtd 09/08/2006.

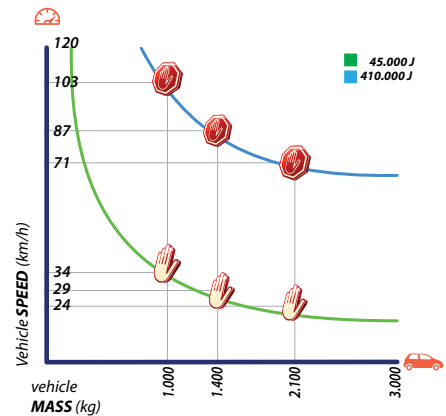
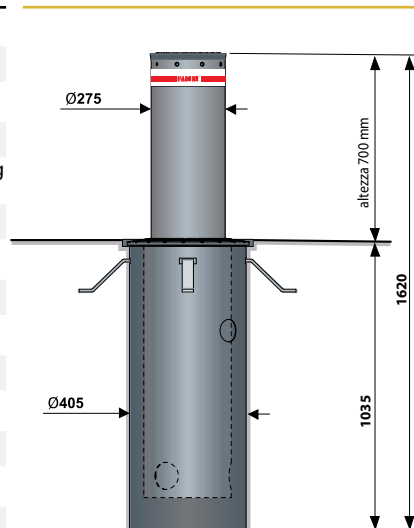


Examples of installation

## TECHNICAL DATA

Post diameter	Ø 275 mm
Post thickness	12 mm
Post height	700 mm
Post material	S355J steel
Post finish	polyester powder coating RAL 7016
Ground sleeve	hot dip galvanized
Rising time [speed]	~ 11,6 s
Lowering time [speed]	~ 9,9 s
Working temperature	-20 °C +80 °C (*)
Oil type	FADINI oil code 708L
Power supply	230 Vac- 50 Hz
Absorbed power	330 W
Absorbed current	1,8 A
Power output	0,25 kW (0,33 HP)
Protection class of oil-hydraulic motor-pump	IP 67
Frequency of use	very intensive
Impact resistance	45.000 J
Breakout resistance	410.000 J
Max. static load	20.000 kg
Weight of bollard	180 kg
Weight of ground sleeve (item No. 9555L)	30 kg

## OVERALL DIMENSIONS



Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated in the diagram even significantly.

Each Strabuc 930 Opinat comes factory-fitted with 10 meters of electric cables (for the electric motor, limit switches, solenoid valve and led lights).

For a correct installation always consult the specific instructions manual.

Check soil permeability and in case provide a rain water draining system at the base of the ground sleeve.

(\*) -40 °C with optional specific accessories on page 17.

# Strabuc 930 Opinat



Item code No.	Post diameter (mm)	Height (mm)	Post thickness (mm)	Post finish	Signalling LEDs	Solenoid valve (24 Vdc)	Beeper
<b>9328L</b>	275	700	12	RAL 7016 anthracite grey	✓	✓	✓

NOTE: Type approval is valid provided the bollard includes all of the accessories as in the kit pack item No. 9330L

NOTE: Only oil-hydraulic operative unit complete with retractable post. The post is cataphoresis treated and polyester powder coated.

Type-approved back-reflecting sticker. Limit switch operated on post reaching up and down positions.

9 led lights, amber in colour. Aluminium collar, cover fixing screws, top rubber edge.

The flanged housing cylinder is hot dip galvanized, the inner support frame is electrolytic zinc coated.

230 V power supply.

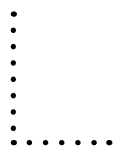
With each bollard fitted with a solenoid valve, a 24V voltage stabilizer is to be used, item No. 9321L.

Specific accessories for the bollards are on page 44 - 48.

## KIT pack STRABUC 930 Opinat – Type-approved -



Item code No.	Post diameter (mm)	Height (mm)	Post thickness (mm)	Post finish	Signalling LEDs	Solenoid valve	Beeper
<b>9330L</b>	275	700	12	RAL 7016 anthracite grey	✓	✓	✓



Item code No.	Description	Quantity (pcs)
<b>9328L</b>	STRABUC 930 Opinat	1
<b>370L</b>	CHIS 37 surface mount	1
<b>2032L</b>	Detector for 2 magnetic loops, 24 Vac/dc	1
<b>3203L</b>	Traffic light, (230V)x 2 lights red and green. With fixing brackets	1
<b>3220L</b>	Hazard warning sign with pole, fastening brackets and screws	1
<b>7065L</b>	20 µF capacitor with electric cable	1
<b>7280L</b>	ELPRO S40	1
<b>7282L</b>	Plug-in traffic light card for ELPRO S40/980/27/37	1
<b>7285L</b>	Polyester box model GW46002	1
<b>7288L</b>	E.A.R.35 – Emergency Acoustic Receiver with casing	1
<b>9321L</b>	24 V voltage stabilizer	1
<b>9331L</b>	Emergency red button switch, with fastening brackets	1
<b>9555L</b>	Hot dip galvanized ground sleeve with anchoring plates, STRABUC series	1












### SPECIFIC ACCESSORIES

Item code No.	Description
<b>9555L</b>	Hot dip galvanized ground sleeve with anchoring plates, STRABUC series
<b>9191L</b>	Ground sleeve cover





## SPECIFIC ACCESSORIES FOR RETRACTABLE AUTOMATIC BOLLARDS

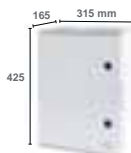
Item No.	Description
 <b>60L</b>	RAL colour change
 <b>2032L</b>	Detector for 2 magnetic loops, with 2 relay outputs and 1 output for an alarm device, 24 Vac/dc
 <b>2037L</b>	6 m circumference, pre-assembled loop with 10 m power supply cable
 <b>2042L</b>	12 m circumference, pre-assembled loop with 10 m power supply cable
 <b>2746L</b>	HELIOS 29 plug-in card to suit ELPRO S40. It maintains temperature with the oil inside the oil-hydraulic motor-pumps fitted to the bollards
 <b>2756L</b>	Temperature probe for HELIOS 29 with 5 m cable and connector
 <b>3203L</b>	● ● 230 V, red and green traffic lights, 2 lights, with fastening brackets
 <b>3204L</b>	● ● ● 230 V, red, yellow and green traffic lights, 3 lights, with fastening brackets.
 <b>3206L</b>	Pair of brackets to fasten the traffic light to the round pole
 <b>3220L</b>	Hazard sign to warn of a moving bollard. Fastening brackets, screws and support pole
 <b>7230L</b>	DUPCO 72 terminal board providing clean output contacts and so duplicating the single input contacts of the limit switches (each board can take up to 2 operators maximum). It can be connected to any ELPRO electronic controller.

Item No.	Description
----------	-------------



**7282L** Plug-in traffic light card for ELPRO

**2783L** Kit consisting of 2 microprocessors and 1 traffic light card to connect together 2 ELPRO S40 control units and control up to 8 retractable automatic bollards.



**7285L** IP 65 polyester box type GW46002, with door and inner metal plate



**7288L** E.A.R. 35 – Emergency Acoustic Receiver to detect the sirens of rescue and security emergency vehicles. In emergency situations, once a siren is detected, it gives a signal to the ELPRO controller to lower the bollard/s and clear the driveway. Complete with ABS casing



**9321L** 24 V voltage stabilizer.  
One stabilizer for each bollard fitted with a solenoid valve.



**9331L** Emergency red button switch, with fastening brackets



**2249L** Kit of burglarproof screws. AISI 316 stainless steel, to suit CORAL and VIGILO retractable bollards

**2590L** Heating cable KIT, with 230 V x 3 m electric cable to suit CORAL and VIGILO retractable bollards. Complete with 10 m power supply cable and 3 m aluminium sticky tape








**2557L** Type-approved retro-reflective sticker (to suit CORAL posts)



**2558L** Type-approved retro-reflective sticker (to suit VIGILO posts)

## SPECIFIC ACCESSORIES FOR TALOS RETRACTABLE AUTOMATIC BOLLARDS

Item No.	Description
	Special design for sloping areas, TALOS automatic. Post head and ground casing top design made to be flat with the driveway slope.
	<b>9540L</b> NOTE: possible only with TALOS bollards thickness 4 – 12 mm, heights 500 – 600 – 700 – 800 mm. Contact FADINI technical department for feasibility approval.
	<b>9560L</b> Ground casing H 1.010 mm, coated by hot dip galvanizing. To be used exclusively for the models: TALOS 9450 – 9450/HRC – 9460 – 9470 - 9651 – 9661 – 9671
	<b>9561L</b> Ground casing H 1.210 mm, coated by hot dip galvanizing. To be used exclusively for the models: TALOS 9460/HRC – 9470/HRC – 9480 - 9661/HRC – 9671/HRC – 9681
	<b>9562L</b> Ground casing H 1.310 mm, coated by hot dip galvanizing. To be used exclusively for the models TALOS 9480/HRC – 9681/HRC
	<b>9563L</b> Ground casing H 830 mm, coated by hot dip galvanizing. To be used exclusively for the models TALOS 9450 – 9651
	<b>9564L</b> Ground casing cover
	<b>9565L</b> RAL 1028 melon yellow polyester powder coating (for 4 mm and 12 mm post thickness options)
	<b>9566L</b> RAL 7016 anthracite grey polyester powder coating (for 4 mm and 12 mm post thickness options)
	<b>9567L</b> Beeper to signal the movements of the bollard NOTE: this item is factory-fitted and exclusively to the TALOS bollards

Item No.	Description
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**9568L**

Obstacle presence detector for the TALOS range of bollards.  
It is a safety device preventing the post from rising in case an obstacle is on it or reversing the post travel in case the obstacle is detected during the rising movement.  
The grade of sensitivity can be easily adjusted by means of the pressure switch.

NOTE: the device is fitted on to the bollard directly on factory assembling phase (set to a weight of about 15 kg minimum) and is suitable only for the TALOS models (with the exclusion of TALOS M50)



**9569L**

24 Vdc solenoid valve allowing the post to lower automatically to ground level in the event of a power failure.  
Always to use with the voltage stabilizer item code No. 9321L.

NOTE: the device is fitted on to the bollard directly on factory assembling phase and is suitable only for the TALOS models (with the exclusion of TALOS M50)



**9570L**

Heating device

NOTE: it is directly factory-fitted on to the bollard

**9571L**





Thermostat to activate and power supply No. 1 heating device.  
Complete with temperature probe.



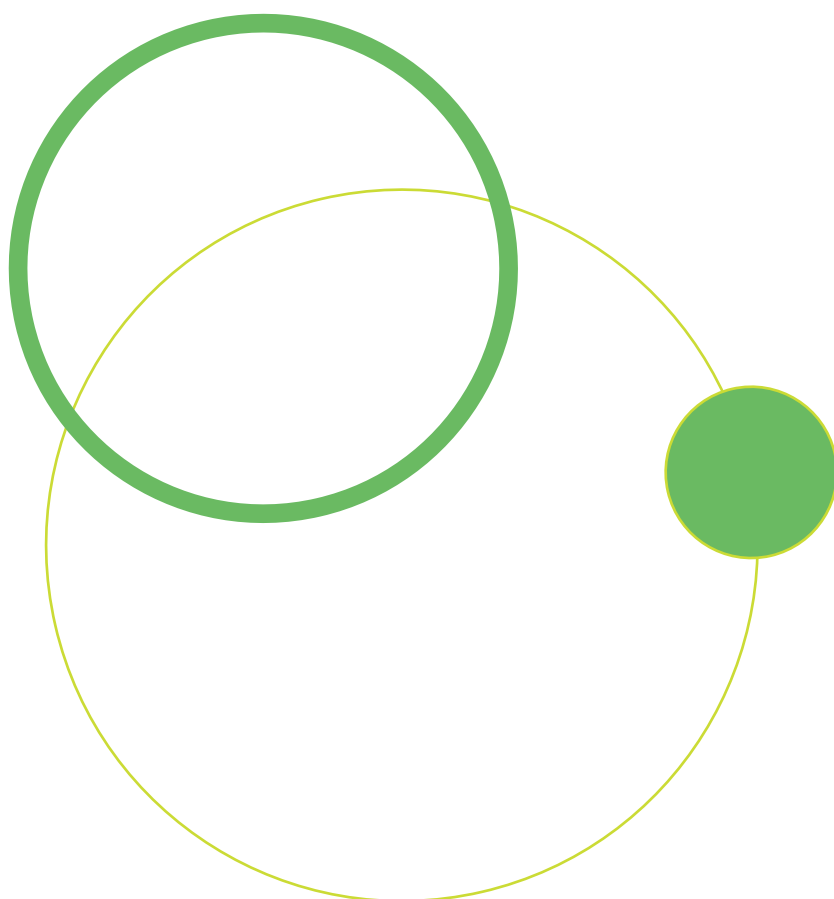
**9572L**

Thermostat to activate and power supply No. 3 heating devices.  
Complete with temperature probe.

## SPECIFIC ACCESSORIES FOR TALOS RETRACTABLE AUTOMATIC BOLLARDS

Item No.	Description
 <b>9573L</b>	Kit of AISI 316 stainless steel burglarproof screws to suit the automatic and semiautomatic TALOS bollards
<b>9578L</b>	Kit of AISI 316 stainless steel burglarproof screws to suit the automatic TALOS M50 bollard
 <b>9574L</b>	Type-approved retro-reflective sticker
 <b>9575L</b>	Burglarproof cover plate. It does not allow access to the manual release device thereby preventing the post from being manually lowered
<b>9576L</b>	Multipole cable type BUT FLESSIBILE FG 70R 12x1,5 mm <sup>2</sup> . For the TALOS bollards: - in the standard version without optional accessories; - in the version with two optional accessories max. (either solenoid valve, obstacle detector or heater). N.W. the presence or not of the beeper on the TALOS bollard does not affect cable choice
<b>9577L</b>	Multipole cable type BUT FLESSIBILE FG 70R 16x1,5 mm <sup>2</sup> . For the TALOS bollards: - in the version fitted with all the three optional accessories (solenoid valve, obstacle detector and heater). N.W. the presence or not of the beeper on the TALOS bollard does not affect cable choice
 <b>9580L</b>	Polymeric adhesive film protected with four-colour printed transparent lamination either glossy or matt, directly applied to the post of the automatic, semiautomatic or fixed bollards, TALOS range.  NOTE: the file for the printing of the film is to be provided in high resolution by the customer in any of the following formats: ai, eps, vector graphics or high resolution pdf file for cmyk 300 dpi printing format. It is important to consider that the graphic file must have the same proportions of the post it has to be printed for. Being the full size print of quite large dimensions, the recommended proportion for the graphic file is 100%. The graphic files must be in Adobe InDesign, Adobe Illustrator or PDF formats, high resolution required. It is possible though to contact our technical office for a proposal of the graphics (separate quotation).
<b>9684L</b>	Cover sleeve in AISI 304 stainless steel, 12/10 thickness for TALOS M30 post
<b>9688L</b>	Cover sleeve in AISI 304 stainless steel, 12/10 thickness for TALOS M50 post





**NOTE**

Consult the Automatic Gate Operators Catalogue for the other command accessories (digital keypads, proximity readers, keyswitches, token operated devices, radio receivers and transmitters, etc.) and safety accessories (infrared photocells, flashers, etc.).

## CONTROL UNITS FOR AUTOMATIC BOLLARDS



### ELPRO S20

code **7278L**

Single-phase electronic controller up to 2 automatic bollards. All programmable functions included, automatic or semiautomatic modes of operation, removable terminal blocks, luminous diagnostics by LEDs, separated connection for the capacitors, preset to take a control card for traffic lights with 2/3 lights and external time clock.

Specifically designed to control the following automatic bollards:

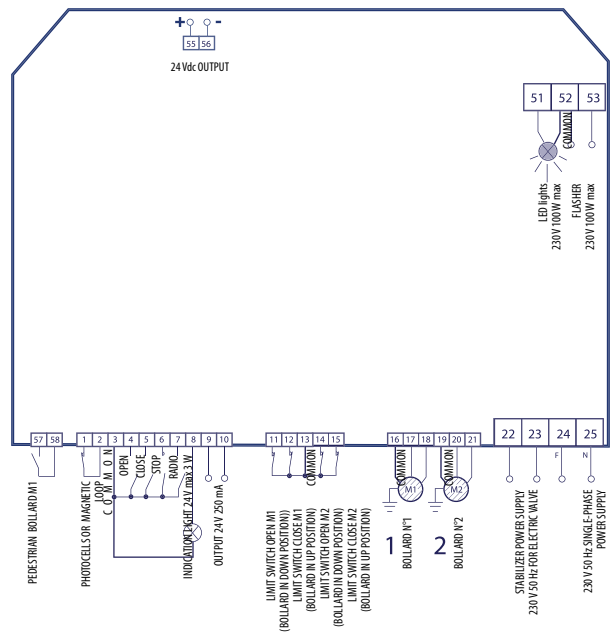
- CORAL series
- TALOS series
- STRABUC 930 OPINAT
- VIGILO series
- TALOS M30

#### TECHNICAL SPECIFICATIONS

Single-phase PCB power supply	230 V ±10% 50 Hz
Three-phase PCB power supply	-
Max. power of motors	1.200 W
Courtesy light output	-
Photocells/keyswitch/radio receiver output	24 Vdc max 250 mA
Pilot light output	24 V - 3 W max.
DSA control output	-
Flasher output	230 V - 100 W max
Motor run time	1 - 22 s
Dwell time	1 - 180 s
Gate delay in closing	-
Pedestrian opening time	-

Box dimensions	210 x 295 x 110 mm
Protection rate	IP 64
Working temperature	-20 °C +55 °C

Solenoid valve power supply	230 V - 50 Hz
Beeper output	230 V - 100 W max




**ELPRO S40**

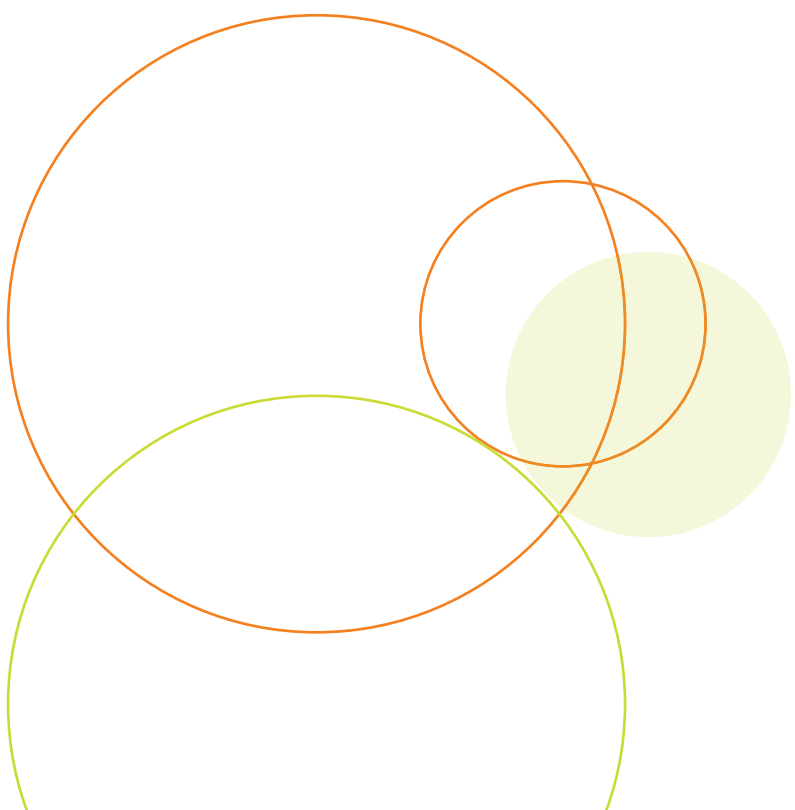
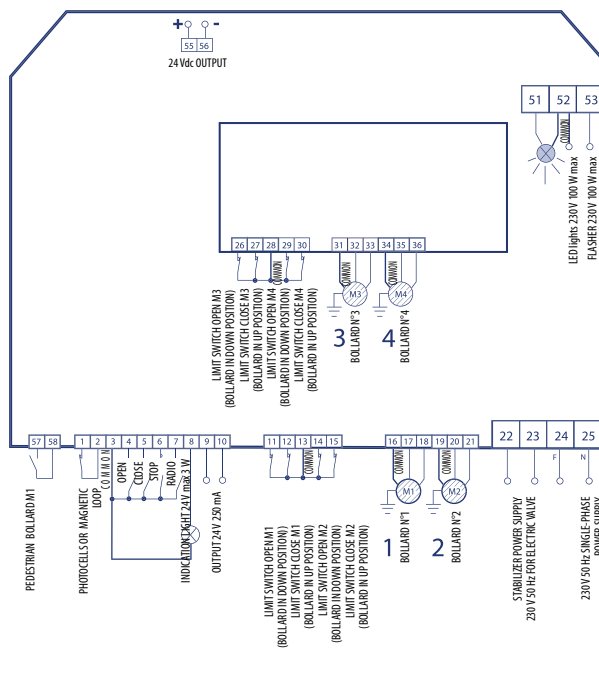
 code **7280L**

Single-phase electronic controller up to 4 automatic bollards. All programmable functions included, automatic or semiautomatic modes of operation, removable terminal blocks, luminous diagnostics by LEDs, separated connection for the capacitors, preset to take a control card for traffic lights with 2/3 lights and external time clock.

Specifically designed to control the following automatic bollards:

- CORAL series
- TALOS series
- STRABUC 930 OPINAT
- VIGILO series
- TALOS M30

TECHNICAL SPECIFICATIONS	
Single-phase PCB power supply	230 V ±10% 50 Hz
Three-phase PCB power supply	-
Max. power of motors	2.400 W
Courtesy light output	-
Photocells/keyswitch/radio receiver output	24 Vdc max 250 mA
Pilot light output	24 V - 3 W max
DSA control output	-
Flasher output	230 V - 100 W max
Motor run time	1 - 22 s
Dwell time	1 - 180 s
Gate delay in closing	-
Pedestrian opening time	-
Box dimensions	210 x 295 x 110 mm
Protection rate	IP 64
Working temperature	-20 °C +55 °C
Solenoid valve power supply	230 V - 50 Hz
Beeper output	230 V - 100 W max





### **ELPRO S50**

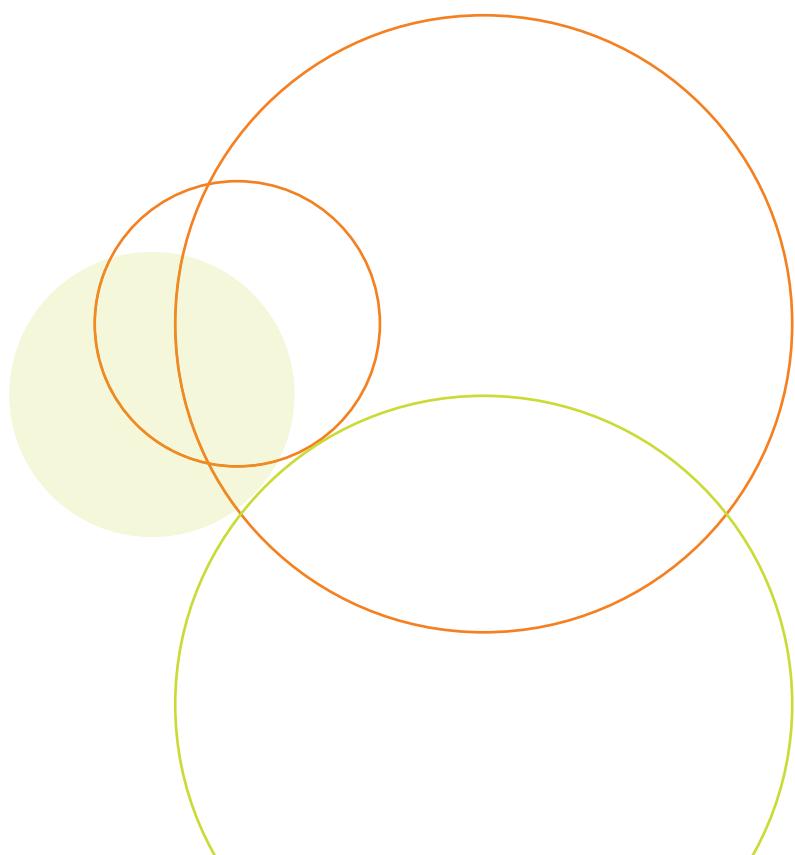
Single-phase electronic controller ELPRO S50 is fitted with power contactors and is designed for the bollard type TALOS M50.

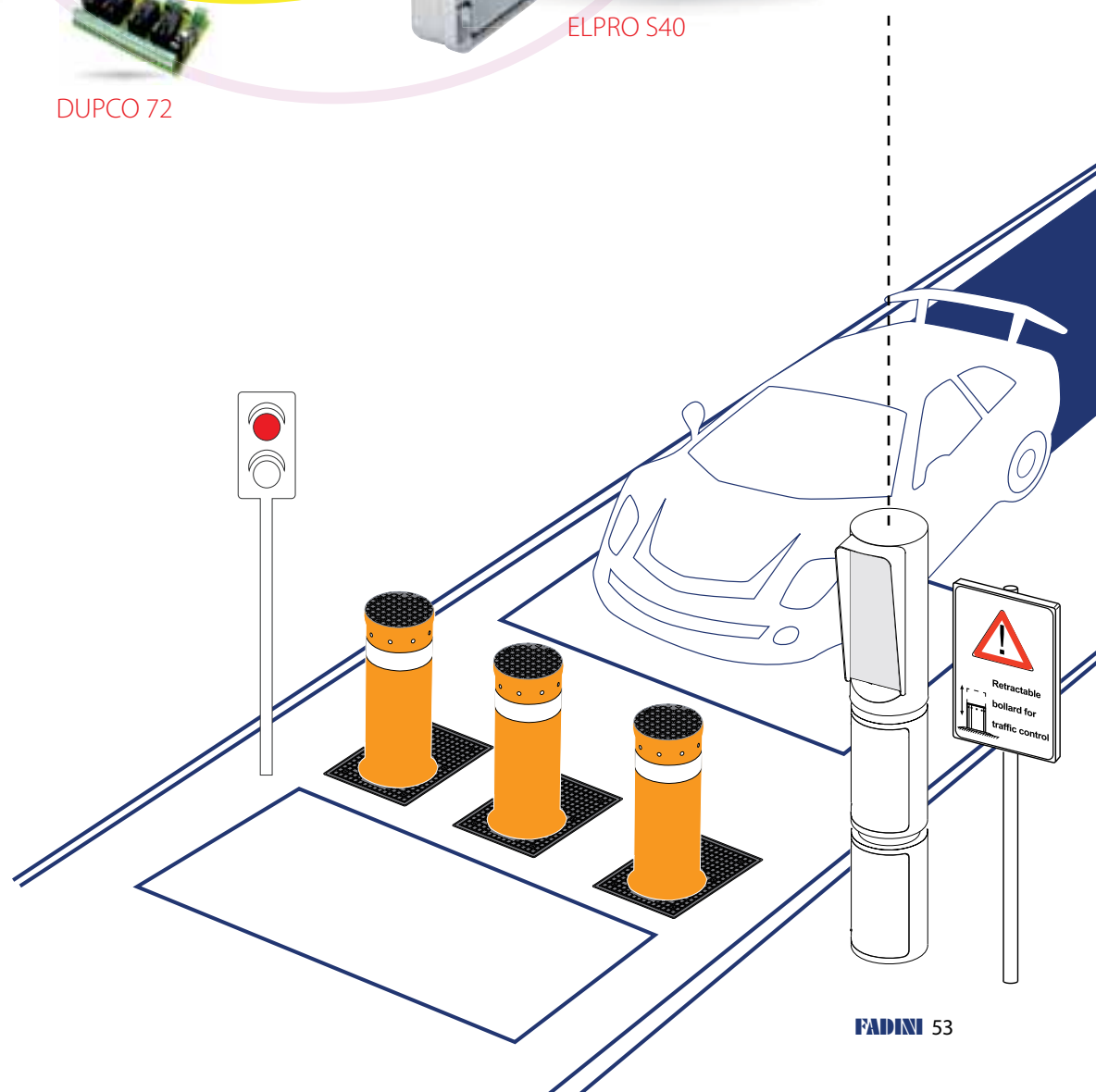
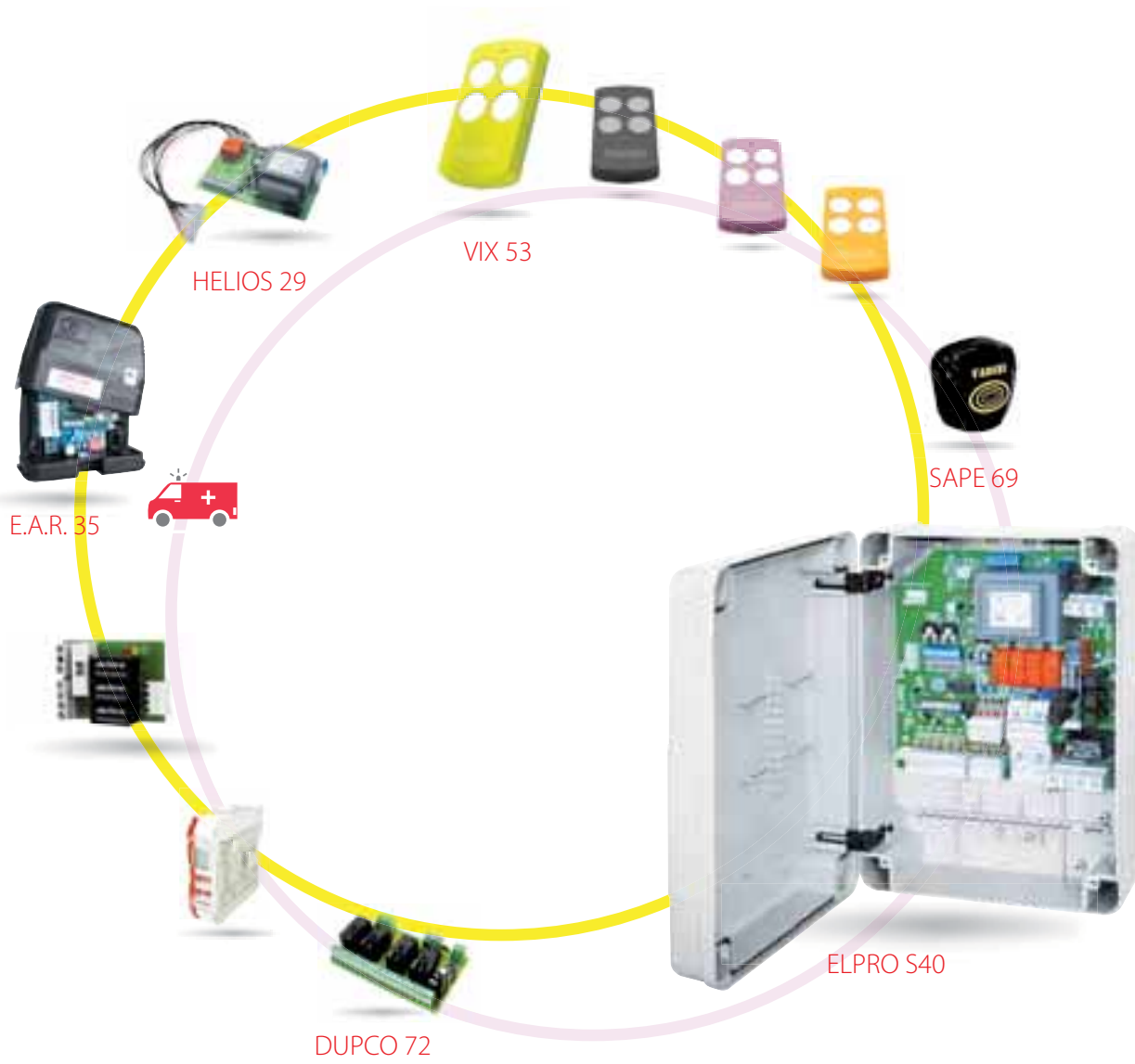
The housing box is made of polyester, IP 65 grade of protection, with door and inner metal plate. All programmable functions included, automatic or semiautomatic modes of operation, removable terminal blocks, luminous diagnostics by LEDs, separated connection for the capacitors, preset to take a control card for traffic lights with 2/3 lights and external time clock.

ELPRO S50-T1 model, item No. **9097L**, to control No. 1 TALOS M50.

ELPRO S50-T2 model, item No. **9098L**, to control No. 2 TALOS M50.

ELPRO S50-T3 model, item No. **9099L**, to control No. 3 TALOS M50.







# Visual 344



Possible applications of accessories and operative devices near an automatic system

## Modular post to provide housing support.

Service post indicated to be used with road barriers and retractable bollards. It provides housing for command or safety accessories inside it.

Made of S235J steel, cathaphoresis treated and varnished to **withstand atmospheric agents**.

It consists of **stackable modules**, and each of them is fitted with a lockable door to access the inside by coded key.

The upper module is fitted with a front panel made of aluminium, designed and made to be inserted with various command accessories (digipads, intercoms, proximity readers, etc.).

It is also possible to fit the top module with a traffic light with two or three Led lights.



Aluminium pannel fitted with digital pad, traffic lights and proximity reader

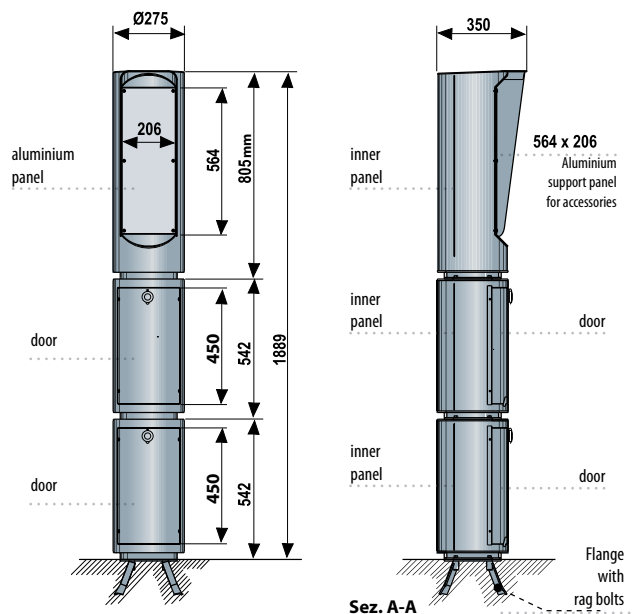


VISUAL 344 with a personalized intercom, in a car park for instance

## TECHNICAL DATA



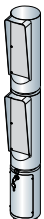
Material	S235J steel
Thickness	4 mm
Panel material	Aluminium
Module diameter	Ø 275 mm
Height singolo modulo base	542 mm
Height of module supporting accessories	805 mm
Weight with 3 modules	70 kg
weight with 2 modules	50 kg
Colour	RAL 7016 anthracite grey cathaphoresis treated
Protection class	IP 53
Impact resistance	5.000 J (500Kg force at 1 m height)

## OVERALL DIMENSIONS

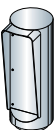


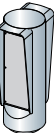


# Visual 344






Item code No.	Specifications Height (m)	Modules			
		Code 3450L (quantity)	Code 3452L (quantity)	Code 3456L (quantity)	Code 3462L (quantity)
 <b>3446L</b>	1,34	1	1	1	
 <b>3448L</b>	1,88	1	1	2	
 <b>3460L</b>	2,14	1	1	1	1

## MODULES FOR VISUAL 344

Item code No.	Description	Height (m)
 <b>3450L</b>	Upper module with 1 panelled side	0,80
 <b>3456L</b>	Base module	0,54
 <b>3462L</b>	Intermediate module with 1 panelled side	0,80
 <b>3466L</b>	Upper module with two panelled sides	0,80

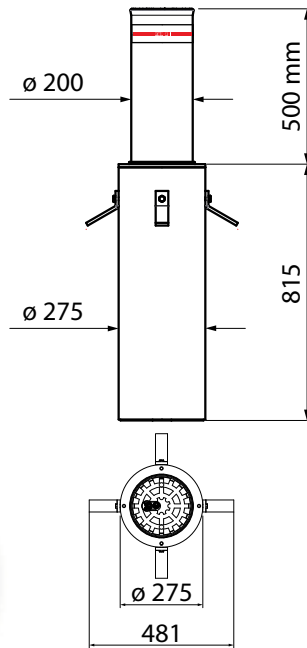
## SPECIFIC ACCESSORIES

Item code No.	Description
 <b>3452L</b>	Flange with anchoring plates and fixing screws
 <b>3457L</b>	Base module cover
<b>3214L (*)</b>	Led traffic lights, 2 lights, red-green, 24 Vac/dc
<b>3215L (*)</b>	Led traffic lights, 2 lights, red-green, 230 V
<b>3216L (*)</b>	Led traffic lights, 3 lights, red-yellow-green, 24 Vac/dc
<b>3217L (*)</b>	Led traffic lights, 3 lights, red-yellow-green, 230 V
 <b>60L</b>	RAL colour change

(\*) only for applications with VISUAL 344.

# Semiautomatic bollards

## Gaspo 252



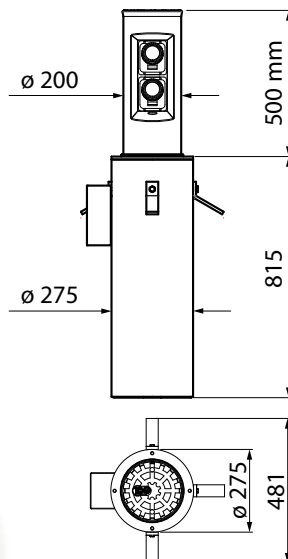
Sinkable post to fully disappear into the ground. Diameter 200 mm. Height 500 mm. It can be combined with VIGILO automatic bollards. Cataphoresis treated and polyester powder coated S235J steel post or AISI 304 stainless steel version. Walkable and carriageable cover. Hot dip galvanized housing cylinder.

- **No particular adjustment or setting required, immediate installation.**
- **Simple**  
to operate by gas springs inside the post: it can spring upright by itself, lowering is to be facilitated by pushing the post head with a foot. It is operated by a specifically designed release spanner (triangular profile as an option, page 66) allowing the post to be firmly locked and held in fully down position.
- **Safe**  
with no dangerous sharp edges as the post head has a rubber ring, and the type-approved sticker makes it visible even in dark conditions.

Item code No.	Model	Post diameter (mm)	Post height (mm)	Post thickness (mm)	Finish	Impact resistance (**)	Breakout resistance (**)
2520L	GASPO 252	200	500	4	RAL 7016 anthracite grey	30.000 J	160.000 J
2524L	GASPO 252	200	500	4	AISI 304 SS steel brushed	30.000 J	160.000 J
2528L	GASPO 252	200	500	4	AISI 304 SS steel brushed	30.000 J	160.000 J

NOTE: item 2528L has the post, housing cylinder and release shaft in AISI 304 stainless steel. Ground sleeve is hot dip galvanized.

## Gaspo 254



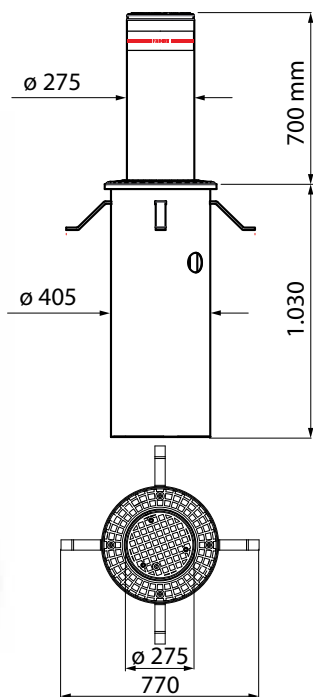
Sinkable post to fully disappear into the ground. For service applications such as power supply sockets. 200 mm diameter, 500 mm height. Cataphoresis treated and polyester powder coated S235J steel post. Walkable and carriageable cover. Hot dip galvanized housing cylinder. Same functioning as GASPO 252.

- **Energy on demand only.**  
Two x 230V single-phase, "Gewiss GW 62 426" electric power sockets are housed inside the post.

Item code No.	Model	Post diameter (mm)	Post height (mm)	Post thickness (mm)	Finish	Impact resistance (**)	Breakout resistance (**)
2527L	GASPO 254 complete with electric sockets	200	500	4	RAL 1028 melon yellow	30.000 J	160.000 J

Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated even significantly.

# Gasma 922



Sinkable post to fully disappear into the ground.  
Diameter 275 mm, height 700 mm.

Cataphoresis treated and polyester powder coated S235J steel post or AISI 304 stainless steel version. Walkable and carriageable cover. Hot dip galvanized housing cylinder.

- **No particular adjustment or setting required, immediate installation.**

- **Simple**

to operate by gas springs inside the post: it can spring upright by itself, lowering is to be facilitated by pushing the post head with a foot. It is operated by a specifically designed release spanner (triangular profile as an option, page 66) allowing the post to be firmly locked and held in fully down position.

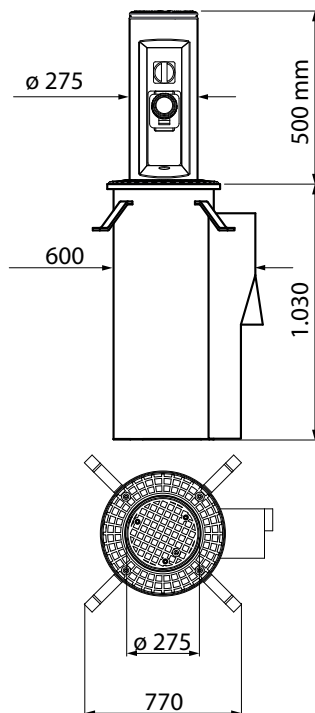
- **Safe**

with no dangerous sharp edges as the post head has a rubber ring, and the type-approved sticker makes it visible even in dark conditions.

Item code No.	Model	Post diameter (mm)	Post height (mm)	Post thickness (mm)	Finish	Impact resistance (**)	Breakout resistance (**)
9220L (*)	GASMA 922	275	700	4	RAL 7016 anthracite grey	40.000 J	280.000 J
9223L (*)	GASMA 922	275	700	4	AISI 304 SS steel brushed	40.000 J	280.000 J

(\*) Until stock sells out.

# Gasma 500



Sinkable post to fully disappear into the ground. For service applications such as power supply sockets.

275 mm diameter, 500 mm height. Cataphoresis treated and polyester powder coated S235J steel post  
Walkable and carriageable cover. Hot dip galvanized housing cylinder.

Same functioning as GASMA 922.

- **Energy on demand only.**

One x 380 V three-phase, "Gewiss GW 66 353" electric power socket is housed inside the post.

Item code No.	Model	Post diameter (mm)	Post height (mm)	Post thickness (mm)	Finish	Impact resistance (**)	Breakout resistance(**)
9225L	GASMA 500 complete with one electric socket	275	500	4	RAL 1028 melon yellow	40.000 J	280.000 J

(\*\*) Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated even significantly.

# Talos serie



TALOS semiautomatic bollards to match the automatic range allowing in this way the combined application of all of the models, either finish options in powder coating, or inox AISI 304 and AISI 316 stainless steel. Ideal to control traffic in public or private areas.

- **Simple**

movements by means of gas springs inside the post: rising is by the action of these, while lowering must be facilitate by pushing on the post top. The post is operated by a specially designed release spanner that allows for a secure locking of the post in the fully down position (an optional spanner with triangular profile available on request, page 66).

- **Safe**

having the top head fitted with the rubber ring to soften accidental violent impacts and the type approved retro-reflective sticker to improve visibility even in dark conditions.

- **Versatile**

it is always possible to decide to replace the semiautomatic model with the respective automatic TALOS, as the ground casing is the same.

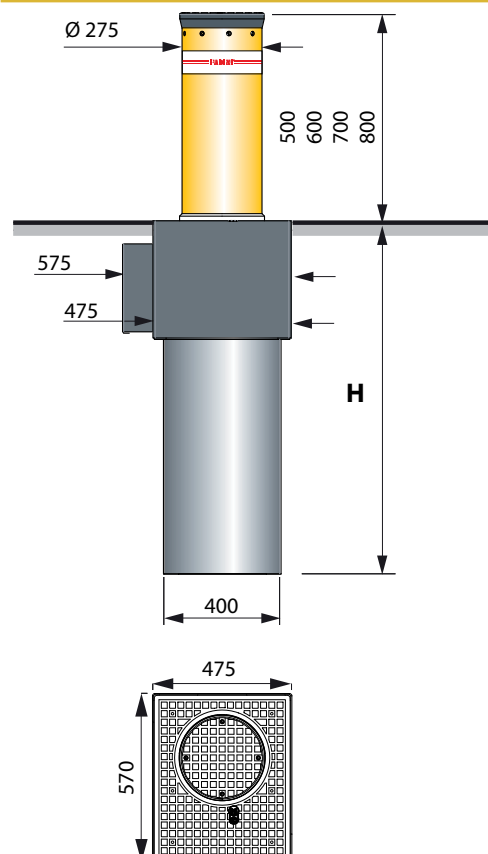
## TECHNICAL DATA

Post diameter	Ø 275 mm
Post thickness	4 mm
Post height	500/600/700/800 mm
Post material	S235J steel
Post finish	polyester powder coating RAL 1028
Post material	AISI 304 / AISI 316 stainless steel
Foundation casing	hot dip galvanized
Impact resistance	52.000 J
Breakout resistance	320.000 J
Max. static load	20.000 kg

Post travel (mm)	Constraint (mm)	H (mm)
500	200	830
600	200	1.010 (*)
700	200	1.010
800	200	1.210

(\*) Foundation casing on request, not standard

## OVERALL DIMENSIONS





# Talos serie



Item code No.	Post diameter 275 mm			
	Height (mm)	Thickness (mm)	Constraint (mm)	Post finish
<b>9451L</b>	500	4	200	RAL 1028 melon yellow
<b>9461L</b>	600	4	200	RAL 1028 melon yellow
<b>9471L</b>	700	4	200	RAL 1028 melon yellow
<b>9481L</b>	800	4	200	RAL 1028 melon yellow
<b>9451A4L</b>	500	4	200	AISI 304 SS steel brushed
<b>9461A4L</b>	600	4	200	AISI 304 SS steel brushed
<b>9471A4L</b>	700	4	200	AISI 304 SS steel brushed
<b>9481A4L</b>	800	4	200	AISI 304 SS steel brushed
<b>9451A6L</b>	500	4	200	AISI 316 SS steel brushed
<b>9461A6L</b>	600	4	200	AISI 316 SS steel brushed
<b>9471A6L</b>	700	4	200	AISI 316 SS steel brushed
<b>9481A6L</b>	800	4	200	AISI 316 SS steel brushed

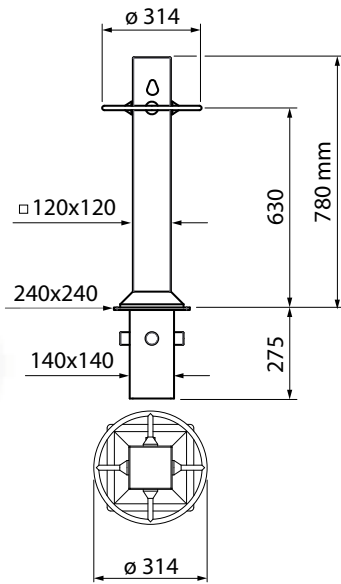
*NOTE: Each bollard comes with its hot dip galvanized ground casing.*

*NOTE: Each bollard is complete with:*

*S235J steel post, cathoporesis treated and polyester powder coated (AISI 304, AISI 316 stainless steel on request), 9 x hole-blanking plastic plugs, same design as led lights.*

# Removable bollards

## Sibli 17



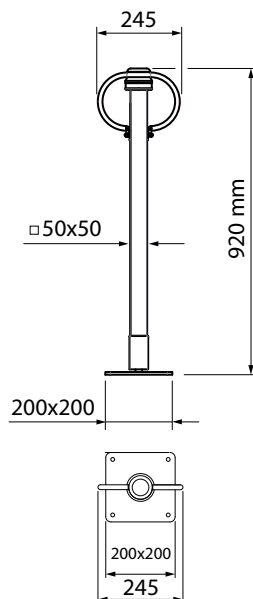
Anti ram-raid armoured post with reinforced steel inner core and external stainless steel (inox) finish. It can be easily released by a custom-coded key and removed from its socket. A roll-away at the base facilitates displacing without physical efforts.

- **No works for cabling required.**

Item code No.	Model	Specifications					
		Post diameter (mm)	Height (mm)	Post thickness (mm)	Finish	Impact resistance	Breakout resistance
170L	SIBLI 17	□ 120 x 120	780	4	AISI 304 SS steel brushed	20.000 J	250.000 J

(\*\*) Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated even significantly.

## Posto 20/22



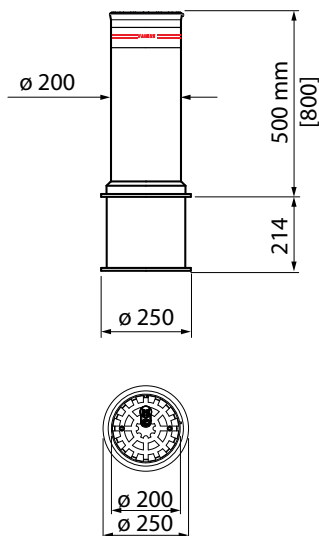
Parking space marker to prevent unauthorized parking in reserved areas.

Ideal for block of flats or private car parks.

- **Easy to use**  
made collapsible by coded key to clear the parking area. Cathaphoresis treated and polyester powder coated S235J steel post or AISI 304 stainless steel version.

Item code No.	Model	Specifications			
		Post diameter (mm)	Height (mm)	Post thickness (mm)	Finish
185L	POSTO 20	□ 50 x 50	920	4	AISI 304 SS steel brushed
186L	POSTO 22	□ 50 x 50	920	4	RAL 2002 orange red

# Vimari 2316



Cataphoresis treated and polyester powder coated S235J steel post.

It can be combined with the automatic bollards in the VIGILO series. No particular adjustment or setting required, immediate installation by means of a specially designed socket.

It can be easily removed from its socket by means of a release shaped spanner (triangular profile as an option, page 66).

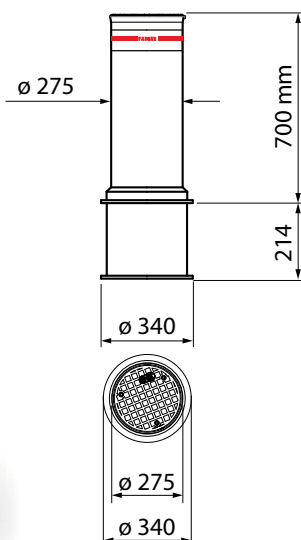
Walkable and carriageable cover.

• **Safe**

with no dangerous sharp edges as the post head has a rubber ring, and the type-approved sticker makes it visible even in dark conditions.

Item code No.	Model	Post diameter (mm)	Post height (mm)	Post thickness (mm)	Post finish	Impact resistance (**)	Breakout resistance (**)
2316L	VIMARI 2316	200	500	4	RAL 7016 anthracite grey	30.000 J	150.000 J
2319L	VIMARI 2316	200	800	4	RAL 7016 anthracite grey	30.000 J	150.000 J
2323L	VIMARI 2316	200	500	4	AISI 304 SS steel brushed	30.000 J	150.000 J

# Stramari 2320



Cataphoresis treated and polyester powder coated S235J steel post.

No particular adjustment or setting required, immediate installation by means of a specifically designed socket.

It can be easily unlocked by means of a shaped release spanner (triangular profile as an option, page 66) and removed from its socket. Walkable and carriageable cover.

• **Safe**

with no dangerous sharp edges as the post head has a rubber ring, and the type-approved sticker makes it well visible even in dark conditions.

Item code No.	Model	Post diameter (mm)	Post height (mm)	Post thickness (mm)	Post finish	Impact resistance (**)	Breakout resistance (**)
2320L	STRAMARI 2320	275	700	4	RAL 7016 anthracite grey	40.000 J	240.000 J

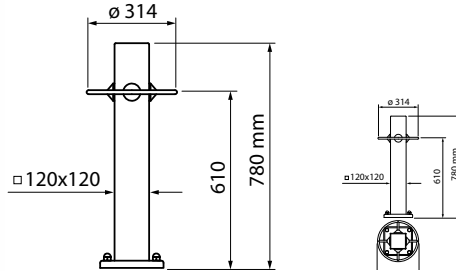
(\*\*) Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated even significantly.

# Fixed bollards

## Sicu 18



**ram-raid preventing armoured post**  
with reinforced steel inner core and external stainless steel (inox) finish.

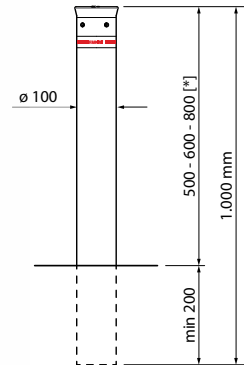


Item code No.	Model	Specifications						
		Post diameter (mm)	Height (mm)	Post thickness (mm)	Post finish	Ground fixing	Impact resistance	Breakout resistance
180L	SICU 18	□ 120x120	780	5	AISI 304 SS steel brushed	by base plate	20.000 J	250.000 J

## Coral series



The CORAL fixed posts are easy to install, no invasive preparatory works are needed: they can be sunk in a concrete foundation directly (collision resistance depends on anchoring depth). Ideal to delimit public or private areas, they perfectly match installations where their automatic versions are installed (all pre-set as a standard to take 4 led lights and the holes are blanked with plastic plugs, same design as the led lights). Cataphoresis treated and polyester powder coated S235J steel post.



Item code No.	Impact resistance (**)	Breakout resistance (**)
2541L	30.000 J	150.000 J



[\*] recommended heights to match the fixed bollards with the respective automatic and semiautomatic versions.

Item code No.	Model	Specifications						
		Post diameter (mm)	Length (mm)	Post thickness (mm)	Post finish	Head configuration	Ground fixing	Pre-set for LEDs (*)
2541L	CORAL	100	1.000	5	RAL 7016 anthracite grey	Flat head, rubber edge	cement embedding	✓

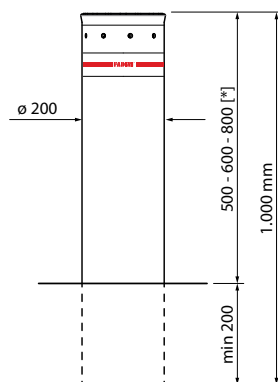
(\*) In case led lights are required, refer to item code No. 1062L on page 66.

(\*\*) Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated even significantly.

# Vigilo series



The VIGILO fixed posts are easy to install, no invasive preparatory works are needed: they can be sunk in a concrete foundation directly (collision resistance depends on anchoring depth).  
Ideal to delimit public or private areas, they perfectly match installations where their automatic versions are installed (all pre-set as a standard to take 8 led lights and the holes are blanked with plastic plugs, same design as the led lights).  
Cataphoresis treated and polyester powder coated S235J steel post or AISI 304 stainless steel version.



[\*] recommended heights to match the fixed bollards with the respective automatic and semiautomatic versions.

Item code No.	Impact resistance (**)	Breakout resistance (**)
<b>2586L</b>	30.000 J	160.000 J
<b>2588L</b>	30.000 J	160.000 J

Item code No.	Model	Specifications						
		Post diameter (mm)	Length (mm)	Post thickness (mm)	Post finish	Head configuration	Ground fixing	Pre-set for LEDs (*)
<b>2586L</b>	VIGILO	200	1.000	4	RAL 7016 anthracite grey	Flat head, rubber edge	Cement embedding	✓
<b>2588L</b>	VIGILO	200	1.000	4	AISI 304 SS steel brushed	Flat head, rubber edge	Cement embedding	✓

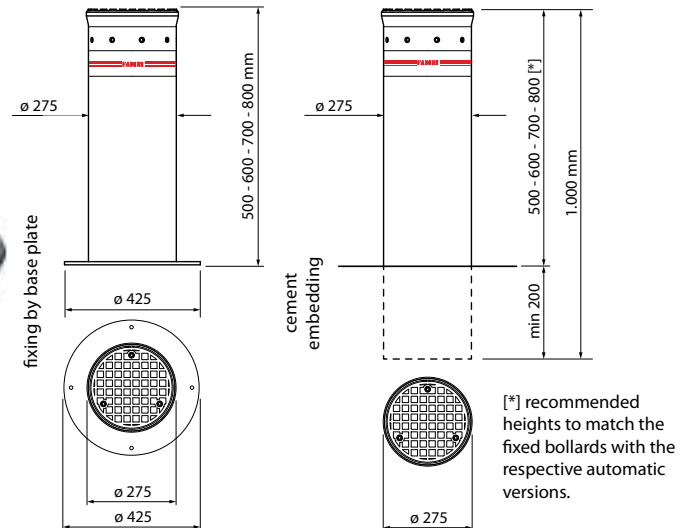
(\*) In case led lights are required, refer to item code No. 2572L on page 66.

(\*\*) Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated even significantly.

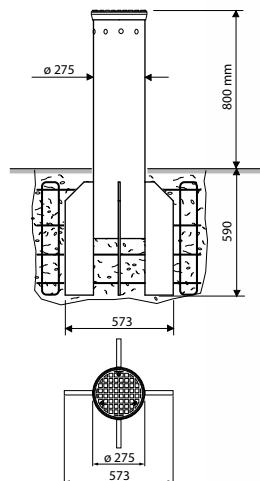
# Talos serie



The TALOS fixed bollards for traffic control are easy to install, no invasive preparatory works are needed: they come with either base plate where fixing can be made by expanding bolts and anchoring flange or straight end to be sunk in a concrete foundation directly (collision resistance depends on anchoring depth). Ideal to delimit public or private areas, they perfectly match installations where their automatic versions are installed (all pre-set as a standard to take 9 led lights and the holes are blanked with plastic plugs, same design as the led lights). Cataphoresis treated and polyester powder coated S235J steel post.  
Stainless steel inox AISI 304/AISI 316 options also available.

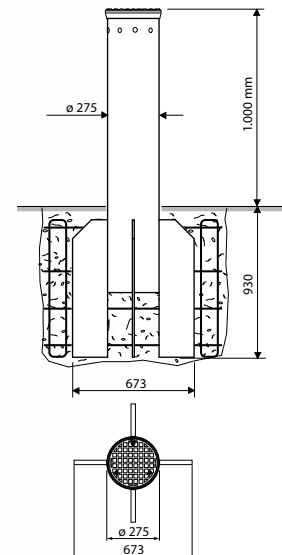


## Talos M30



Anti-terrorism fixed bollard for the protection of sensitive areas such as: military bases, airports, embassies, consulates, banks, etc. and for all those areas where a high level of security and perimeter protection are required. It perfectly matches the TALOS M30 automatic, and is designed to be cemented into a ground foundation along with a suitable reinforcement cage according to the required breakout resistance features. Cataphoresis treated and polyester powder coated S355J steel post. (All pre-set as a standard to take 9 led lights and the holes are blanked with plastic plugs, same design as the led lights).

## Talos M50



Anti-terrorism fixed bollard for the protection of sensitive areas such as: military bases, airports, embassies, consulates, banks, etc. and for all those areas where a high level of security and perimeter protection are required. It perfectly matches the TALOS M50 automatic, and is designed to be cemented into a ground foundation along with a suitable reinforcement cage according to the required breakout resistance features. Cataphoresis treated and polyester powder coated S355J steel post. (All pre-set as a standard to take 9 led lights and the holes are blanked with plastic plugs, same design as the led lights).



# Talos serie



Item code No.	Specifications								
	Post diameter (mm)	Post height (mm)	Post thickness (mm)	Post finish	Head configuration	Ground fixing	Pre-set for LEDs (*)	Impact resistance (***)	Breakout resistance (***)
<b>9630L</b>	275	500	4	RAL 1028 melon yellow	Flat head, rubber edge	by flange	✓	52.000 J	420.000 J
<b>9631L</b>	275	600	4	RAL 1028 melon yellow	Flat head, rubber edge	by flange	✓	52.000 J	420.000 J
<b>9632L</b>	275	700	4	RAL 1028 melon yellow	Flat head, rubber edge	by flange	✓	52.000 J	420.000 J
<b>9633L</b>	275	800	4	RAL 1028 melon yellow	Flat head, rubber edge	by flange	✓	52.000 J	420.000 J
<b>9643L</b>	275	1.000 (post length)	4	RAL 1028 melon yellow	Flat head, rubber edge	cement embedding	✓	52.000 J	420.000 J
<b>9650L</b>	275	1.000 (post length)	12	RAL 7016 anthracite grey	Flat head, rubber edge	cement embedding	✓	60.000 J	550.000 J
<b>9656L</b>	275	1.000 (post length)	4	AISI 304 SS steel brushed	Flat head, rubber edge	cement embedding	✓	52.000 J	420.000 J
<b>9660L</b>	275	1.000 (post length)	4	AISI 316 SS steel brushed	Flat head, rubber edge	cement embedding	✓	60.000 J	550.000 J
<b>9695L</b> TALOS M50	275	1.000	20	RAL**	Flat head, rubber edge	cement embedding	✓	700.000 J	2.000.000 J
<b>9697L</b> TALOS M30	275	800	12	RAL 7016 anthracite grey	Flat head, rubber edge	cement embedding	✓	150.000 J	700.000 J

(\*) in case led lights are required, refer to item code No. 936L on page 66.

(\*\*) in RAL colours as available in the manufacturer's own list.

(\*\*\*) Various factors, such as the compaction index, soil permeability coefficient and kind of concrete may reduce the values indicated even significantly.

# Coral - Vigilo - Talos

Item code No.	Description
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<b>60L</b>	RAL colour change
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<b>1062L</b>	Complete set of 4 x 12 V signalling led lights with transformer and 10 m of 230 V power supply cable (only for CORAL fixed posts)
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<b>2572L</b>	Complete set of 8 x 12 V signalling led lights with transformer and 10 m of 230 V power supply cable (only for VIGILO fixed posts)
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<b>936L</b>	Complete set of 9 x 12 V signalling led lights with transformer and 10 m of 230 V power supply cable (only for TALOS fixed posts)
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<b>9193L</b>	Guide flange with anchoring plates for concrete embedding (only for TALOS fixed posts)
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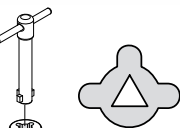
<b>2555L</b>	Guide flange with anchoring plates for concrete embedding (only for CORAL fixed posts)
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<b>2556L</b>	Guide flange with anchoring plates for concrete embedding (only for VIGILO fixed posts)
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<b>9315L</b>	Kit of burglarproof screws. inox AISI 316 stainless steel, to suit the semiautomatic GASMA and GASPO.
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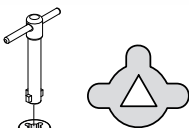
<b>2557L</b>	Type-approved retro-reflective sticker (for CORAL posts)
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<b>2558L</b>	Type-approved retro-reflective sticker (for VIGILO posts)
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<b>9574L</b>	Type-approved retro-reflective sticker (for TALOS posts)
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<b>9200L</b>	Manual release device with triangular profile, complete with spanner. Available to suit the semiautomatic models such as GASPO 252, GASMA 922 and the TALOS series, and for the removable bollards type VIMARI 2316 and STRAMARI 2320.
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NOTE: the device is fitted to the bollard at the manufacturer's factory.

# Examples of installation

This section provides a guide and some examples of complete installations of automatic bollards with command and safety accessories for proper functioning.

**A quick look to hypothetical situations of application.**

# Oil-hydraulic automatic bollards with retractable post



## Coral 1050

Item code No.	Description	Quantity (pcs)
<b>1050L</b>	CORAL 1050 with retractable post - height 500 mm	1
<b>7280L</b>	ELPRO S40 controller	1
<b>5311L</b>	VIX 53/2 R plug-in radio receiver. Rolling code. 868,19 MHz	1
<b>5313GL</b>	VIX 53/4 TR transmitter. Lime green colour	1
<b>4612L</b>	MIRI 4 Led flasher with wall/post fixings	1
<b>4601L</b>	Group of components BIRIO A8 aerial with card	1
<b>551L</b>	Pair of photocells FIT 55 recess mount	2
<b>565L</b>	Pair of posts 75 cm with upper support and fixing base plate	2
<b>370L</b>	CHIS 37 – Keyswitch, surface mount. Universal profile barrel with custom-coded key	1



## Coral 1080

Item code No.	Description	Quantity (pcs)
<b>1080L</b>	CORAL 1080 with retractable post - height 800 mm	1
<b>7280L</b>	ELPRO S40 controller	1
<b>5311L</b>	VIX 53/2 R plug-in radio receiver. Rolling code. 868,19 MHz	1
<b>5313GL</b>	VIX 53/4 TR transmitter. Lime green colour	1
<b>4612L</b>	MIRI 4 Led flasher with wall/post fixings	1
<b>4601L</b>	Group of components BIRIO A8 aerial with card	1
<b>551L</b>	Pair of photocells FIT 55 recess mount	2
<b>565L</b>	Pair of posts 75 cm with upper support and fixing base plate	2
<b>370L</b>	CHIS 37 – Keyswitch, surface mount. Universal profile barrel with custom-coded key	1



## Vigilo 2250

Item code No.	Description	Quantity (pcs)
<b>2250L</b>	VIGILO 2250 with retractable post - height 500 mm	1
<b>7280L</b>	ELPRO S40 controller	1
<b>5311L</b>	VIX 53/2 R plug-in radio receiver. Rolling code. 868,19 MHz	1
<b>5313GL</b>	VIX 53/4 TR transmitter. Lime green colour	1
<b>4612L</b>	MIRI 4 Led flasher with wall/post fixings	1
<b>4601L</b>	Group of components BIRIO A8 aerial with card	1
<b>551L</b>	Pair of photocells FIT 55 recess mount	2
<b>565L</b>	Pair of posts 75 cm with upper support and fixing base plate	2
<b>370L</b>	CHIS 37 – Keyswitch, surface mount. Universal profile barrel with custom-coded key	1



## Vigilo 2280

Item code No.	Description	Quantity (pcs)
<b>2280L</b>	VIGILO 2280 with retractable post - height 800 mm	1
<b>7280L</b>	ELPRO S40 controller	1
<b>5311L</b>	VIX 53/2 R plug-in radio receiver. Rolling code. 868,19 MHz	1
<b>5313GL</b>	VIX 53/4 TR transmitter. Lime green colour	1
<b>4612L</b>	MIRI 4 Led flasher with wall/post fixings	1
<b>4601L</b>	Group of components BIRIO A8 aerial with card	1
<b>551L</b>	Pair of photocells FIT 55 recess mount	2
<b>565L</b>	Pair of posts 75 cm with upper support and fixing base plate	2
<b>370L</b>	CHIS 37 – Keyswitch, surface mount. Universal profile barrel with custom-coded key	1



## Talos

Item code No.	Description	Quantity (pcs)
<b>9470L</b>	TALOS automatic bollard, 700 mm height, 4 mm thickness, 200 mm constraint, complete with rubber edge, retro-reflective sticker and led lights, guide frame and oil-hydraulic motor-pump. Finish: RAL 1028 melon yellow. The unit comes with hot dip galvanized ground casing	1
<b>9576L</b>	Multipole cable type BUT FLESSIBILE FG 70R 12x1,5 mm <sup>2</sup>	1
<b>370L</b>	CHIS 37 – keyswitch. Surface mount. Universal profile barrel with custom-coded key	1
<b>551L</b>	Pair of photocells FIT 55 recess mount	1
<b>565L</b>	Pair of posts 75 cm with upper support and fixing base plate	1
<b>5311L</b>	VIX 53/2 R plug-in radio receiver. Rolling code. 868,19 MHz	1
<b>5313GL</b>	VIX 53/4 TR transmitter. Lime green colour	1
<b>4612L</b>	MIRI 4 Led flasher with wall/post fixings	1
<b>4601L</b>	Group of components BIRIO A8 aerial with card	1
<b>7280L</b>	ELPRO S40 controller	1



## Talos

Item code No.	Description	Quantity (pcs)
<b>9681HL</b>	TALOS automatic bollard, 800 mm height, 12 mm thickness, 400 mm constraint, complete with rubber edge, retro-reflective sticker and led lights, guide frame and oil-hydraulic motor-pump. Finish: RAL 7016 anthracite grey. The unit comes with hot dip galvanized ground casing	1
<b>9576L</b>	Multipole cable type BUT FLESSIBILE FG 70R 12x1,5 mm <sup>2</sup>	1
<b>370L</b>	CHIS 37 – keyswitch. Surface mount. Universal profile barrel with custom-coded key	1
<b>551L</b>	Pair of photocells FIT 55 recess mount	1
<b>565L</b>	Pair of posts 75 cm with upper support and fixing base plate	1
<b>5311L</b>	VIX 53/2 R plug-in radio receiver. Rolling code. 868,19 MHz	1
<b>5313GL</b>	VIX 53/4 TR transmitter. Lime green colour	1
<b>4612L</b>	MIRI 4 Led flasher with wall/post fixings	1
<b>4601L</b>	Group of components BIRIO A8 aerial with card	1
<b>7280L</b>	ELPRO S40 controller	1





## Talos

Item code No.	Description	Quantity (pcs)
<b>9450A4L</b>	TALOS automatic bollard, 500 mm height, 4 mm thickness, 200 mm constraint, complete with rubber edge, retro-reflective sticker and led lights, guide frame and oil-hydraulic motor-pump. Finish: inox AISI 304 stainless steel. The unit comes with hot dip galvanized ground casing	4
<b>9576L</b>	Multipole cable type BUT FLESSIBILE FG 70R 12x1,5 mm <sup>2</sup>	4
<b>370L</b>	CHIS 37 – keyswitch. Surface mount. Universal profile barrel with custom-coded key	1
<b>2032L</b>	Detector for 2 magnetic loops, with 2 relay outputs and 1 output for an alarm device, 24 Vac/dc	1
<b>2042L</b>	12 m circumference, pre-assembled loop with 10 m power supply cable	2
<b>5311L</b>	VIX 53/2 R plug-in radio receiver. Rolling code. 868,19 MHz	1
<b>5313GL</b>	VIX 53/4 TR transmitter. Lime green colour	1
<b>4612L</b>	MIRI 4 Led flasher with wall/post fixings	1
<b>4601L</b>	Group of components BIRIO A8 aerial with card	1
<b>7280L</b>	ELPRO S40 controller	1



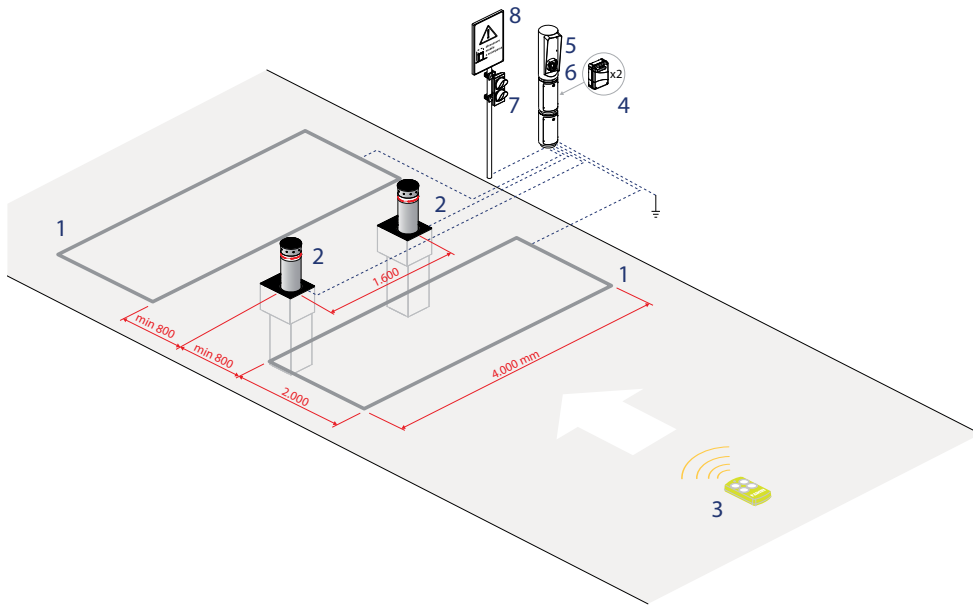
## Talos M50

Item code No.	Description	Quantity (pcs)
<b>9690L</b>	TALOS M50 automatic bollard, 1.000 mm height, 20 mm thickness, 500 mm constraint, complete with rubber edge, retro-reflective sticker and led lights, guide frame and oil-hydraulic drive unit. Finish: polyester powder coating. The unit comes with hot dip galvanized ground casing	2
<b>9576L</b>	Multipole cable type BUT FLESSIBILE FG 70R 12x1,5 mm <sup>2</sup>	2
<b>370L</b>	CHIS 37 – keyswitch. Surface mount. Universal profile barrel with custom-coded key	1
<b>2032L</b>	Detector for 2 magnetic loops, with 2 relay outputs and 1 output for an alarm device, 24 Vac/dc	1
<b>2037L</b>	6 m circumference, pre-assembled loop with 10 m power supply cable	2
<b>5311L</b>	VIX 53/2 R plug-in radio receiver. Rolling code. 868,19 MHz	1
<b>5313GL</b>	VIX 53/4 TR transmitter. Lime green colour	1
<b>4612L</b>	MIRI 4 Led flasher with wall/post fixings	1
<b>4601L</b>	Group of components BIRIO A8 aerial with card	1
<b>9098L</b>	ELPRO S50-T2 controller	1

# Talos 9681/HRC

## INSTALLATION GENERAL LAYOUT

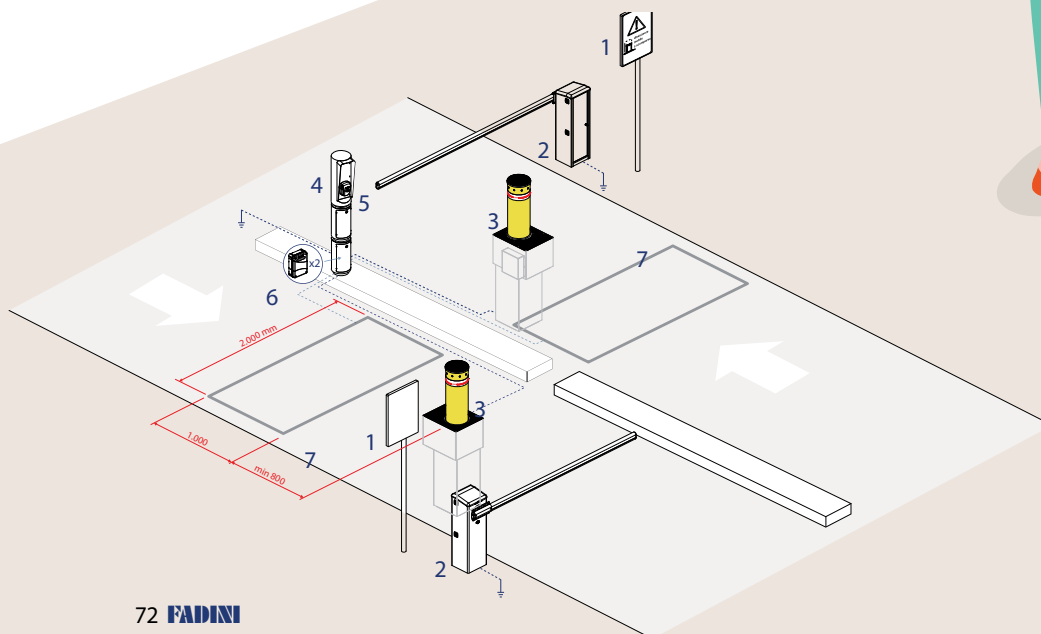
- 1» 12 m pre-assembled loop
- 2» TALOS 9681/HRC automatic bollard, 800 mm height
- 3» VIX 53/4 TR transmitter
- 4» ELPRO S40 controller
- 5» VISUAL 344 modular post
- 6» CHIS 37 – keyswitch
- 7» Traffic lights, 2 lights red-green
- 8» Hazard warning sign with pole



# Talos 9460

## INSTALLATION GENERAL LAYOUT

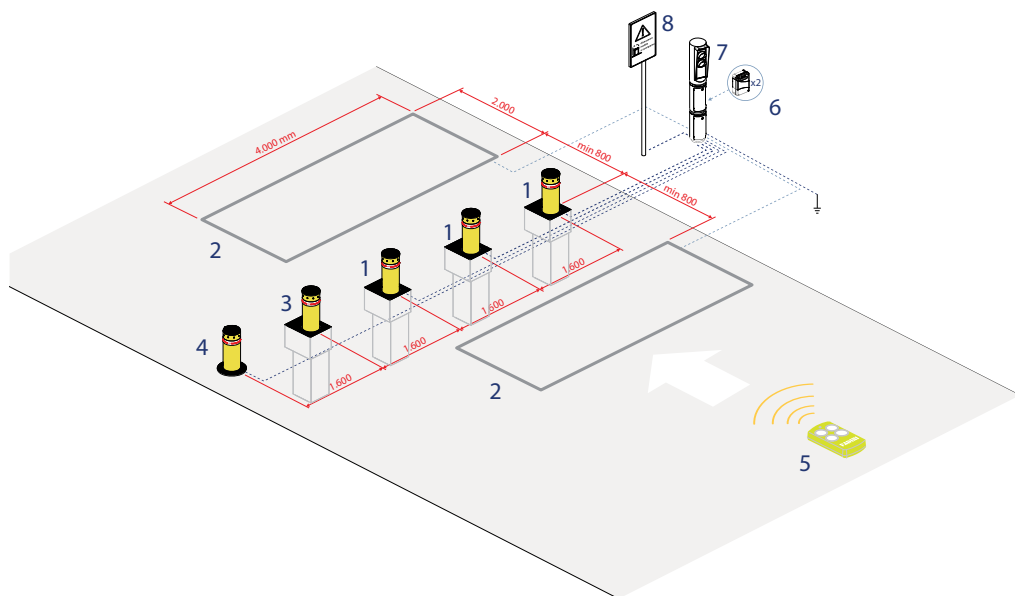
- 1» Hazard warning sign with pole
- 2» BAYT 980 oil-hydraulic road barriers
- 3» TALOS 9460 automatic bollard, 600 mm height
- 4» VISUAL 344 modular post
- 5» SAPE 69 proximity reader
- 6» ELPRO S40 controller
- 7» 6 m pre-assembled loop



# Talos

## INSTALLATION GENERAL LAYOUT

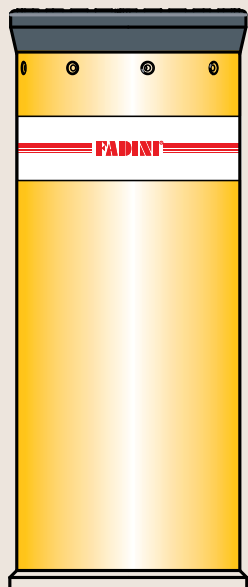
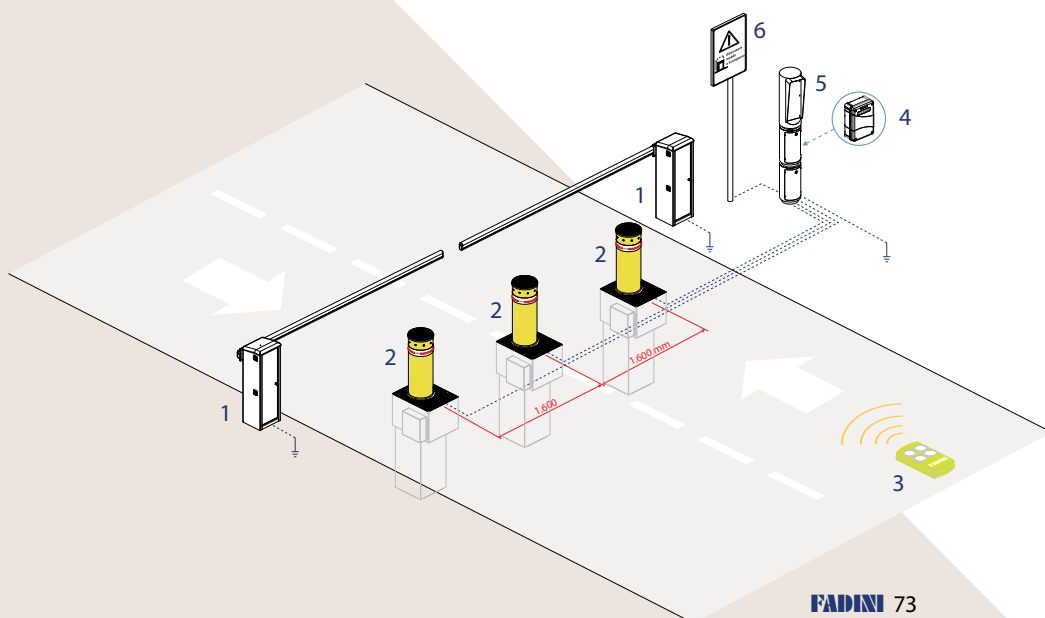
- 1» TALOS 9470 automatic bollard, 700 mm height
- 2» 12 m pre-assembled loop
- 3» TALOS semiautomatic bollard, 700 mm height
- 4» TALOS fixed bollard, 700 mm height
- 5» VIX 53/4 TR transmitter
- 6» ELPRO S40 controller
- 7» VISUAL 344 modular post with traffic lights, 2 lights red-green
- 8» Hazard warning sign with pole



# Talos M50

## INSTALLATION GENERAL LAYOUT

- 1» BAYT 980 oil-hydraulic road barriers
- 2» TALOS M50 automatic bollard, 1.000 height
- 3» VIX 53/4 TR transmitter
- 4» ELPRO S50-T3 controller
- 5» VISUAL 344 modular post
- 6» Hazard warning sign with pole



# Progressive item code numbers

Product code No.

Code	Page
218L	25

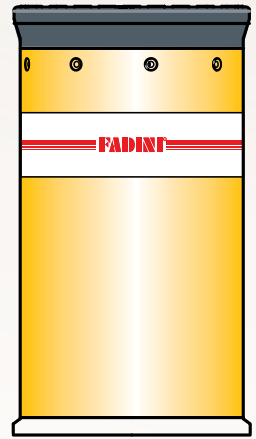
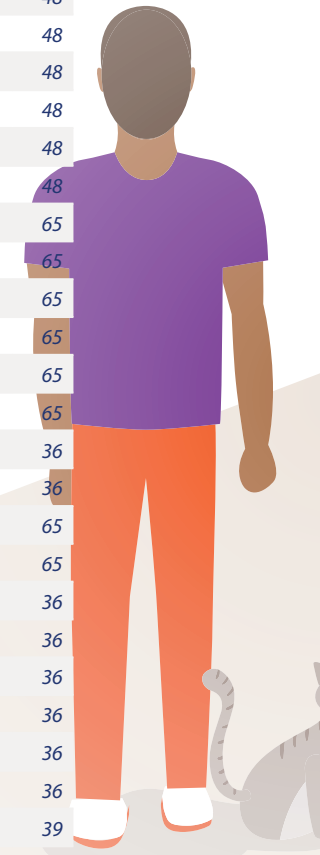
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catalogue page

Code	Page
60L	44
170L	60
180L	62
185L	60
186L	60
370L	68
551L	68
565L	68
936L	66
1050L	24
1052L	24
1054L	24
1057L	24
1059L	24
1062L	66
1063L	24
1064L	24
1067L	24
1080L	24
1082L	24
1084	24
1087L	24
2032L	44
2037L	44
2042L	44
2249L	45
2250L	28
2252L	28
2255L	28
2257L	28
2263L	28
2264L	28
2266L	28
2267L	28
2268L	28
2271L	28
2273L	28
2274L	28
2276L	28
2277L	28
2279L	28
2280L	28
2282L	28
2288L	28
2289L	28

Code	Page
2294L	28
2296L	28
2297L	28
2298L	28
2299L	28
2316L	61
2319L	61
2320L	61
2323L	61
2520L	56
2524L	56
2527L	56
2528L	56
2541L	62
2555L	66
2556L	66
2557L	45
2558L	45
2572L	66
2586L	63
2588L	63
2590L	45
2746L	44
2756L	44
2783L	45
3203L	44
3204L	44
3206L	44
3214L	55
3215L	55
3216L	55
3217L	55
3220L	44
3446L	55
3448L	55
3450L	55
3452L	55
3456L	55
3457L	55
3460L	55
3462L	55
3466L	55
4601L	68
4612L	68
5311L	68
5313GL	68
7230L	44
7278L	50
7280L	51
7282L	45
7285L	45
7288L	45

Code	Page
9097L	52
9098L	52
9099L	52
9191L	43
9193L	66
9200L	66
9220L	57
9223L	57
9225L	57
9315L	66
9321L	45
9328L	43
9330L	43
9331L	45
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9450A4L	32
9450A6L	32
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9450A6HL	32
9451L	59
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9451A6L	59
9460L	32
9460HL	32
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9461L	59
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9461A6L	59
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9470A6HL	32
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9471A4L	59
9480L	32
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9480A6L	32
9480A4HL	32
9480A6HL	32
9481L	59
9481A4L	59
9481A6L	59
9540L	46
9555L	43

Code	Page
9560L	46
9561L	46
9562L	46
9563L	46
9564L	46
9565L	46
9566L	46
9567L	46
9568L	47
9569L	47
9570L	47
9571L	47
9572L	47
9573L	48
9574L	48
9575L	48
9576L	48
9577L	48
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9630L	65
9631L	65
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9651L	36
9651HL	36
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9661L	36
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9671L	36
9671HL	36
9681L	36
9681HL	36
9682L	39
9684L	48
9688L	48
9690L	41
9695L	65
9697L	65













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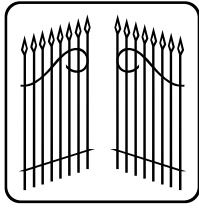
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the gate opener

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The texts and the technical data related to the various items in this catalogue have been updated.

The data available in it replace entirely and completely those written in the technical or sales literature prior to this publication.

We are sure to provide you with products having such technical features that absolutely meet the market demand.

To accomplish an installation in compliance with the norms in force, it is recommended to refer to the item code numbers as here indicated and to use only **FADINI** original accessories.

It is advisable to consult the technical information available for each product (instructions manuals, data sheets, etc.) to achieve a correct installation of the **FADINI** operators.

The pictures in this catalogue are merely indicative. All the data in it have been verified and checked with the utmost care. Meccanica FADINI snc reserves the right to change the products and this catalogue in any way that is regarded as needful without notice. It does not take any responsibility in case of possible mistakes and/or omissions.

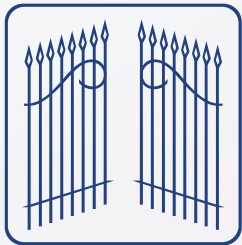


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