

COLUMN OF CONTROL

AUTOMATIC

**PILOMAT**  
MASTERSHIP IN RETRACTILE TECHNOLOGY

## PRODUCTS GUIDE.15



made in Italy

REMOVABLE

COMPLEMENTS

ENERGY

BARRIER  
TYRE KILLER

ROAD BLOCKER

BOLLARDS

FIXED

ANTI-TERRORISM

SEMI-AUTOMATIC

CITY GATE



At present, PILOMAT S.r.l. counts itself among the top leading manufacturers of automated access control technologies in the world. The top priority is the continued development and expansion of the line of products, which is carried out entirely within the company to ensure speedy and precise responses to the various demands of the international market. We have ensured the guarantee of the reliability and longevity of our mission, through the development of our philosophy geared towards quality improvement, as well as placing ever higher quality standards into our production at competitive costs and reduced lead time and schedule.



## CERTIFICATIONS



Crash Test - K12 Rating  
American Certification - SD-SDT-02.01 Standard  
Performed at the Texas Transportation Institute, The Texas A&M University System, Texas U.S.A.



Crash Test - M30 (K4) Rating  
American Certification - ASTM F2656-07 Standard  
Performed at Karco Engineering, LLC. Automotive Research Center, Adelanto CA, U.S.A.



Crash Test level M50 (K12)  
American Certification ASTM F2656-07 Standard  
Performed at Karco Engineering, LLC. Automotive Research Center, Adelanto CA, U.S.A.

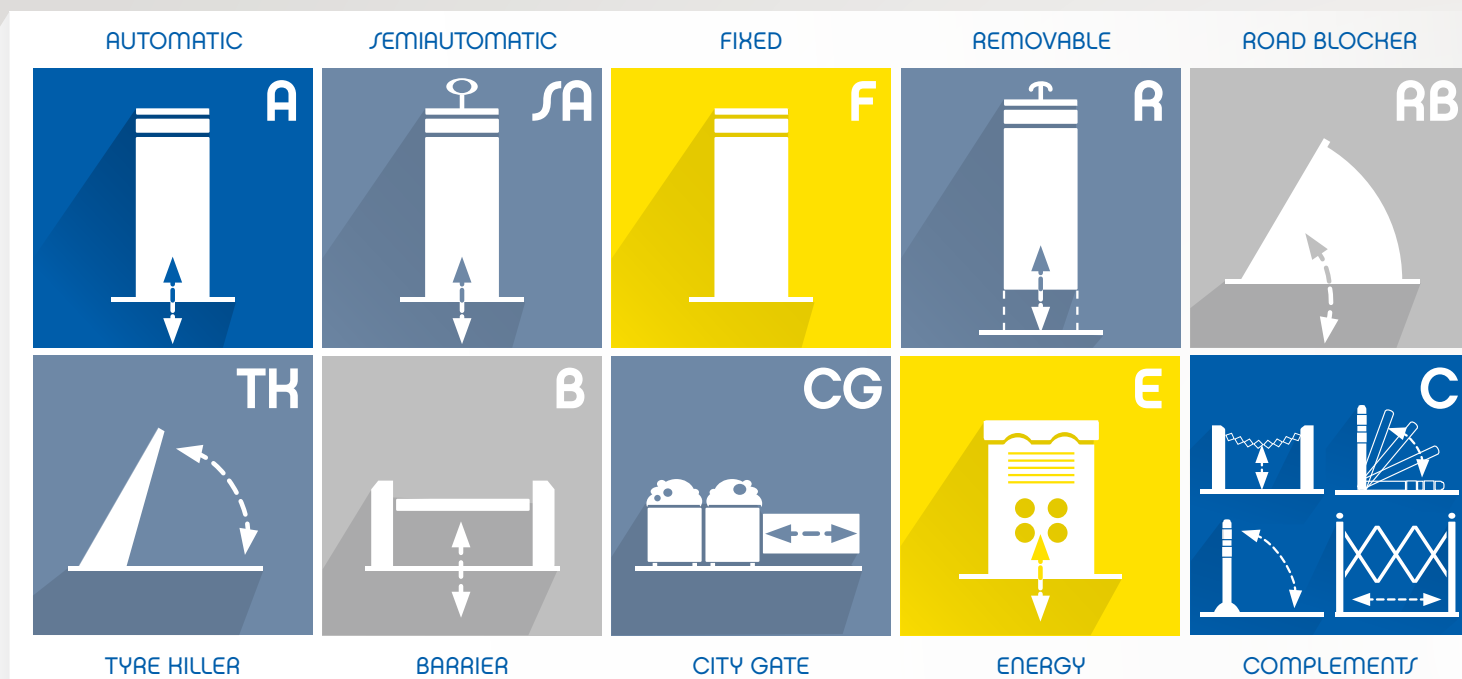


Crash test - PAS68:2013 Bollard V/7500(N3)/80 (K12) Rating  
English Certification - PAS68:2013 Standard  
Performed at Aisico srl. Crash test Center , Pereto (Aq) - Italy



Crash test - PAS68:2013 Road Blocker V/7500(N3)/80 (K12) Rating  
English Certification - PAS68:2013 Standard  
Performed at Aisico srl. Crash test Center , Pereto (Aq) - Italy

PILOMAT's strength is its wide range: whatever the need, ranging from residential security installation to the highest level of anti-terrorism securities, we have it all. Our products and accessories always provide for the possibility to find the ideal solution to satisfy any needs regarding management, safety, and design.



## HIGHLIGHTS AND STRENGTHS

- Built-in Hydraulic pump For each PILOMAT bollard
- Standing alone system: if one is crashed, the others keep working
- Keys-in-hand configuration: extremely easy installation and maintenance
- Intensive use up to 2,000 movements per day at high temperature (70 deg. C)
- No limit on the distance between the PILOMAT bollard and the control unit
- No limit on the amount of PILOMAT bollards connected to the same control unit
- IP 65 rated protection
- Wide range of products and high level of customization
- 100% manufactured in Italy

## AUTOMATIC



**CL SERIES** Automatic pneumatic bollards with compressor in the control unit

**PL SERIES** Automatic hydraulic bollards with pump in the control unit

The range of automatic PILOMAT bollards includes a wide selection of items with different mechanical and dimensional characteristics, in order to meet all market demands, from the operation of the single parking space to anti-terrorism protection. Automatic PILOMAT bollards using the criterion of hydraulic or pneumatic handling. Many optional items are available to configure every single installation.

### CL SERIES



#### 220/CL 600A

- Ø 220 mm / h 600 mm
- 150.000 joules
- 30.000 joules



#### 275/CL 600A

- Ø 275 mm / h 600 mm
- 200.000 joules
- 40.000 joules

### PL SERIES



#### 220/PL 600A

- Ø 220 mm / h 600 mm
- 150.000 joules
- 30.000 joules



#### 275/PL 600A

- Ø 275 mm / h 600 mm
- 200.000 joules
- 40.000 joules



#### 355/PL 600A

- Ø 355 mm / h 600 mm
- 200.000 joules
- 40.000 joules



**P SERIES**



**127/P 600A**  
**127/P 800A**

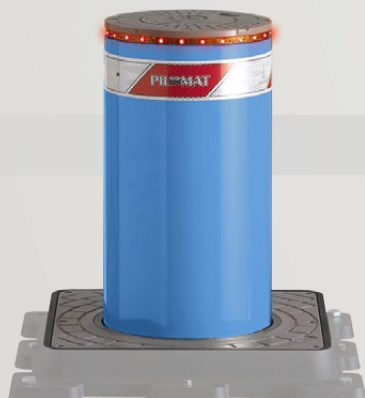
- Ø 127 mm / h 600-800 mm
- 150.000 joules
- 30.000 joules



**220/P 600A**

- Ø 220 mm / h 600 mm
- 150.000 joules
- 30.000 joules

**P SERIES**



**PARK 275/P 500A**

- Ø 275 mm / h 500 mm
- 250.000 joules
- 40.000 joules



**275/P 400A**  
**275/P 500A**  
**275/P 600A**  
**275/P 800A**

- Ø 275 mm / h 400-500-600-800 mm
- 250.000 joules
- 40.000 joules



**275/P10 800A**

- Ø 275 mm / h 800 mm
- 400.000 joules
- 40.000 joules



## AUTOMATIC



**K/M SERIES** Automatic hydraulic anti-terrorist bollards with built-in pump

### K4/M30 SERIES



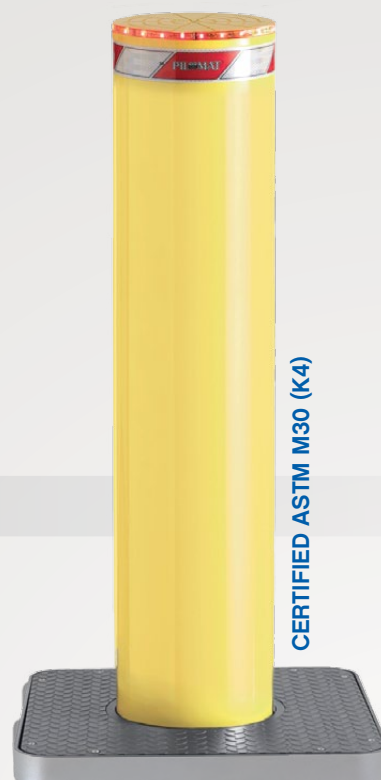
**275/K4 700A**

- Ø 275 mm / h 700 mm
- 700.000 joules
- 150.000 joules



**275/K4 900A**

- Ø 275 mm / h 900 mm
- 700.000 joules
- 150.000 joules



CERTIFIED ASTM M30 (K4)

**275/M30 1200A**

- Ø 275 mm / h 900 mm
- 1.200.000 joules
- 700.000 joules

### K12/M50 SERIES



CERTIFIED DOS K12

**275/K12 900A**

- Ø 275 mm / h 900 mm
- 2.000.000 joules
- 700.000 joules



CERTIFIED PAS68:2013 BOLLARD  
V/7500(N3)/80 (K12) RATING

CERTIFIED ASTM M50 (K12)

**275/M50 1200A**

- Ø 275 mm / h 1200 mm
- 2.000.000 joules
- 700.000 joules

## FIXED COLUMNS



Ø 170

Ø 275



## RETRACTABLE AND MODULAR COLUMNS



Ø 170

## AUTOMATIC NUMBER PLATE READER

### VEGA ACCESS



The automatic reader of license plate called VEGA ACCESS, is a complete "stand-alone" solution of automatic reading of license plates, in integrated monoblock version as a single outer container contains the following components: sensor CCD B / W 1000x800 with sensitivity in the field of IR, LEDs IR illuminator with integrated strobe control and unit of elaboration.

Vega Access can be interfaced to Gate Master software which allow the standard management of six gates (expandable up to 16).

## SEMI-AUTOMATIC



### PL SERIES Semiautomatic bollards with single gas actuator

The range of semiautomatic PILOMAT bollards includes a wide selection of items with different mechanical and dimensional characteristics. They have the same architectural aspects as the automatic PILOMAT and they allow the combined use of both versions.

#### PL SERIES



**127/PL 500SA**  
**127/PL 600SA**

- Ø 127 mm / h 500-600 mm
- 150.000 joules
- 30.000 joules



**220/PL 600SA**

- Ø 220 mm / h 600 mm
- 150.000 joules
- 30.000 joules



**275/PL 500SA**

- Ø 275 mm / h 500 mm
- 250.000 joules
- 40.000 joules

#### PL SERIES



**275/PL 600SA**

- Ø 275 mm / h 600 mm
- 250.000 joules
- 40.000 joules



**275/PL 800SA**

- Ø 275 mm / h 800 mm
- 250.000 joules
- 40.000 joules



**355/PL 600SA**

- Ø 355 mm / h 600 mm
- 200.000 joules
- 40.000 joules



## PL SERIES - PF SERIES Fixed bollards

FIXED

The range of fixed PILOMAT bollards includes a wide selection of items with different mechanical and dimensional characteristics. They have the same architectural aspects as the automatic PILOMAT and they allow the combined use of both versions.



**127/PL 500F**  
**127/PL 600F**  
**127/PL 800F**

○ Ø 127 mm / h 500-600-800 mm  
● 150.000 joules  
● 30.000 joules



**220/PL 600F**

○ Ø 220 mm / h 600 mm  
● 150.000 joules  
● 30.000 joules



**275/PL 500F**  
**275/PL 600F**  
**275/PL 800F**

○ Ø 275 mm / h 500-600-800 mm  
● 250.000 joules  
● 40.000 joules

PL SERIES



**127/PF 500F**  
**127/PF 600F**  
**127/PF 800F**

○ Ø 127 mm / h 500-600-800 mm  
● 150.000 joules  
● 30.000 joules



**220/PF 600F**

○ Ø 220 mm / h 600 mm  
● 150.000 joules  
● 30.000 joules



**275/PF 500F**  
**275/PF 600F**  
**275/PF 800F**

○ Ø 275 mm / h 500-600-800 mm  
● 250.000 joules  
● 40.000 joules



**355/PF 600F**

○ Ø 220 mm / h 600 mm  
● 200.000 joules  
● 40.000 joules

PF SERIES



DIMENSIONS / DIMENSIONI / GRÖSSE / DIMENSIONS / DIMENSIONES

BREAK-OUT RESISTANCE / RESISTENZA ALLO SFONDAMENTO / DURCHSCHLAGFESTIGKEIT / RÉSISTANCE AU DÉFONCEMENT / RESISTENCIA A LA ROTURA POR IMPACTO

IMPACT RESISTANCE / RESISTENZA ALL'URTO / STOSSFESTIGKEIT / RÉSISTANCE AU CHOC / RESISTENCIA A LOS GOLPES

## FIXED ANTI-TERRORIST



### K/M SERIES - KFB/MFB SERIES Fixed anti-terrorist bollards

The Fixed K/M and KFB/MFB SERIES PILOMAT have been designed and built with architectural appearance similar to that of the mobile PILOMAT and therefore also allows the combined use of both versions. The current models are the result of the development of more than 20 years of experience.



#### 275/K4 700F

- Ø 275mm / h 700 mm
- 700.000 joules
- 150.000 joules

### K4 SERIES



#### 275/K4FB 700F 275/K4FB 900F

- Ø 275 mm / h 700 mm
- 700.000 joules
- 150.000 joules



#### 275/M30FB 1200F

- Ø 275 mm / h 900 mm
- 1.200.000 joules
- 700.000 joules

## FIXED ANTI-TERRORIST



### 275/M50FB 1200F

- Ø 275 mm / h 1200 mm
- 2.000.000 joules
- 700.000 joules

### 275/K12FB 900F

- Ø 275 mm / h 900 mm
- 2.000.000 joules
- 700.000 joules

## K12/M50 SERIES

The Fixed PILOMAT LUX PL, LUX PF, LUX K4 and LUX K12 are designed and manufactured to combine the typical breakout resistance of Fixed bollards and the lighting. The result is a bollard that contributes to the protection of pedestrian and perimetral areas, Furthermore it illuminates the surrounding area.

## FIXED LUX



DIMENSIONS / DIMENSIONI / GRÖSSE / DIMENSIONS / DIMENSIONES

BREAK-OUT RESISTANCE / RESISTENZA ALLO SFONDAMENTO / DURCHSCHLAGFESTIGKEIT / RÉSISTANCE AU DÉFONCEMENT / RESISTENCIA A LA ROTURA POR IMPACTO

IMPACT RESISTANCE / RESISTENZA ALL'URTO / STOSSFESTIGKEIT / RÉSISTANCE AU CHOC / RESISTENCIA A LOS GOLPES



## REMOVABLE



Removable PILOMAT bollards are designed to use typically during the night in order to protect access or windows. Their use is recommended in cases of low frequency of travel, or when the depth of excavation is limited and is therefore not possible to install retractable PILOMAT.

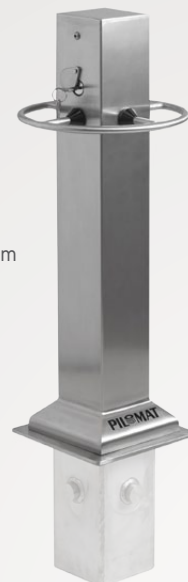
### 275/RM 600

- Ø 275mm / h 600 mm
- 200.000 joules
- 40.000 joules

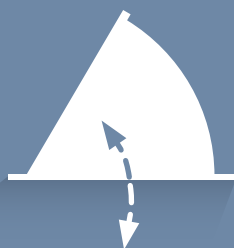


### 120/RM 800

- 120 x 120 mm / h 800 mm
- 250.000 joules
- 20.000 joules



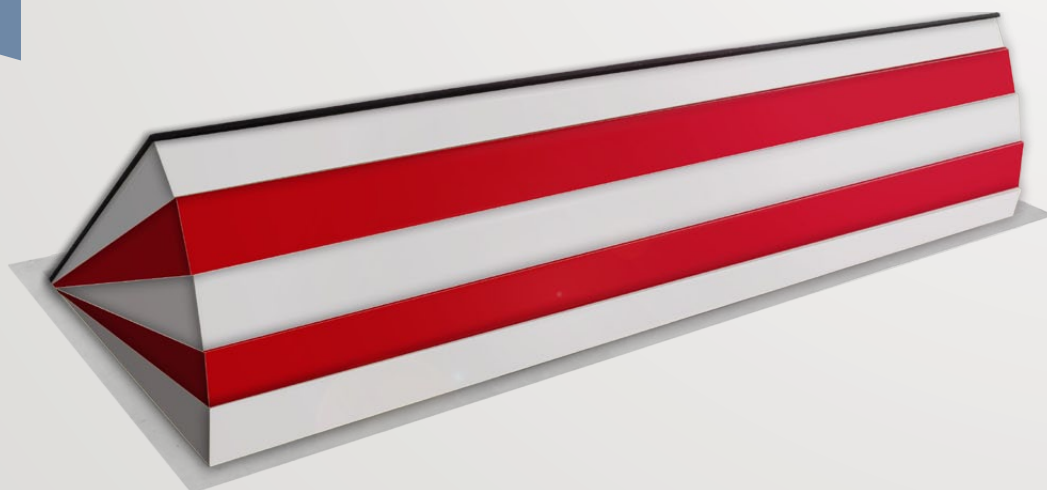
## ROAD BLOCKER



The motorized platforms, in general called ROAD BLOCKERS, use electrohydraulic movement and are available in two different mechanical toughness and different lengths, in order to meet all market requirements, from company driveways to the highest level of anti-terrorism protection.

### RB 1000

- 2.000.000 joules - CERTIFIED PAS68:2013 ROAD BLOCKER V/7500(N3)/80 (K12) RATING
- 700.000 joules



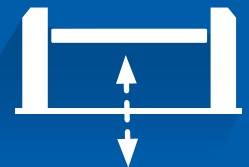
PILOMAT TYRE KILLER is composed by heavy duty spikes that rise from the ground; it operates like an access control barrier, it prevents the passage of unauthorized vehicles or it allows the exit from a supervised area. It can be installed with other access control elements in order to achieve an access control check-point at the highest level of security.

## TYRE KILLER



Motorized barriers with vertical movement, called PILOMAT BARRIER, are available, depending on installation requirements, in different lengths (from 2.5 meters to 7 meters, with modules of 50 cm); they have a considerable mechanical strength to meet the highest anti-terrorism security .

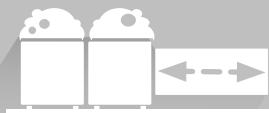
## BARRIER



- H 1800, lenght From 2500 to 7000
- 2.000.000 joules
- 350.000 joules



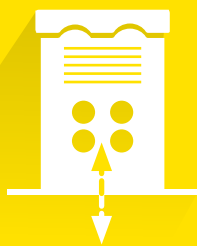
## CITY GATE



PILOMAT CITY GATE is a moving motorized barrier with unilateral or bilateral sliding; it consists of a metal planter with rectangular base and adjustable ground supports. Characterized by a large perimeter edge, with the function of delimiting the containment tank of the planter's earth and to cover the sliding mechanism, it is equipped with a moving barrier to hurdle.



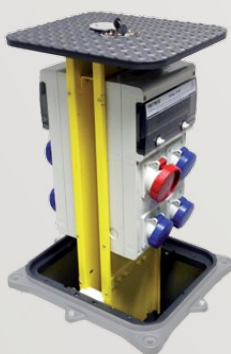
## ENERGY



Semiautomatic PILOMAT ENERGY towers are designed to supply electric power, telephony, compressed air, and water in those areas, used for parking and sometimes used for market areas or venues that are used for events and concerts.



**B3020 60**  
300 x 200 x 600 mm



**B4030 60**  
400 x 300 x 600 mm



**B4040 55**  
400 x 400 x 550 mm



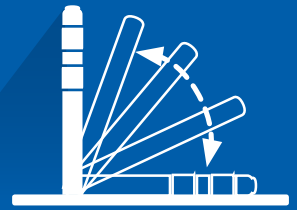
**LONDON 6040**  
700 x 480 x 450 mm

**LONDON 8050**  
820 x 520 x 500 mm

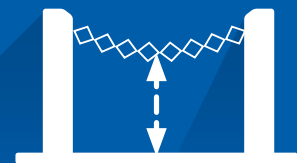


The department of research and development of PILOMAT, always careful to what the synergy of market offers, continuously select products that enrich and complete the PILOMAT program; typically the complements are cheaper products, which help to bring a more complete program.

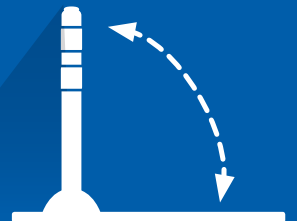
## COMPLEMENTS



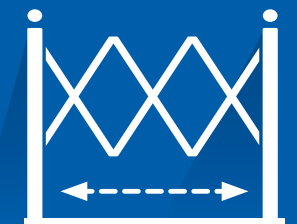
FLEH CITY  
FLEH ROAD



CHAIN



PAAHY

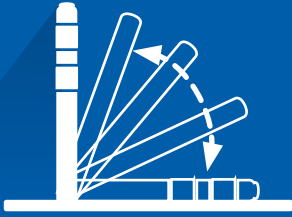


MULTI GATE





## FLEX CITY FLEX ROAD



### PILOMAT FLEX CITY AND FLEX ROAD

Designed specifically For highways, borders and urban environments, it recalls the traditional metallic bollards but as it is made in deFormable polyurethane, provides a cheaper alternative, with the added bonus of very low maintenance.



#### FLEX CITY

Ø 80 mm or 130 mm / h 800-870-1000 mm

The Fixed bollards PILOMAT FLEX CITY, designed specifically For urban areas, are available in two heights: 800mm - 1000mm and 2 diameters: 80mm - 130mm. PILOMAT FLEX CITY typically have two high-visibility reflective strips and two rings with reflective beads, one in the upper part and the other in the lower one.

#### FLEX ROAD

Ø 80 mm / h 800 mm

The Fixed bollards PILOMAT FLEX ROAD, designed specifically For highways, borders and urban environments, are made of 80mm diameter and 800mm height. Typically PILOMAT FLEX ROAD have three high-visibility reflective strips and a lower ring of reflective beads.

The appearance of PILOMAT FLEX CITY and FLEX ROAD recalls the traditional metallic bollard but as it is made of deFormable polyurethane, provides a cheaper alternative, with the added bonus of very low maintenance. In case of special events, PILOMAT FLEX CITY and FLEX ROAD can be easily and quickly removed, using the special tools For installation (supplied separately).

## PILOMAT CHAIN

The new automatic barrier with moving chain with electromechanical movement to mark driveways and private parking places.

- large delimitation: PILOMAT CHAIN allows the delimitation of areas up to 20m;
- linear and powerful moving: PILOMAT CHAIN has two 24V motors (one in each column) that give to the chain a linear movement and allow to lift chains up to 8Kg;
- safe operation: PILOMAT CHAIN is equipped with a impact analysis sensor to ensure the maximum safety in the operation;
- underground guide: an optional item is available (recommended) which consists of a U-guide to ground below the perpendicular of the chain, to allow the placing of the chain when lowered;
- operation in power failure: there is an additional item which is a power supply unit with battery accumulator to allow the temporary operation of PILOMAT CHAIN in case of temporary power failure;



## PILOMAT MULTI GATE

A security portable fence is to use in various applications, such as: blocking traffic in pedestrian areas and subsidiaries; safe of assembling areas, checkpoints, parking and similars.

- The Fence PILOMAT MULTI GATE is easily transportable;
- the dimensions of the Fence when is closed are: 170x480x1.090 mm.
- Full extended opening: 2.300 mm.
- Fence with high visibility with 52 intensive reflective sectors.
- High resistance to weathering.
- The side bases have a tank to be filled with water to ballast the Fence.





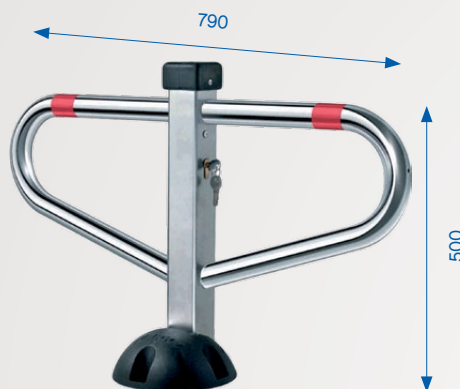
## PILOMAT PARKY

Includes a wide range of manual parking barriers For the protection of the single parking space.

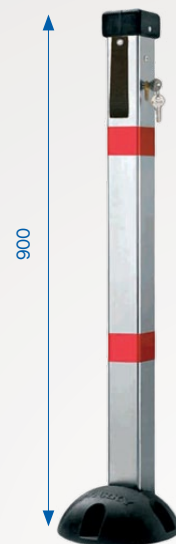
- PILOMAT PARKY are made in steel with anti-corrosion protection treatment in electro - galvanized;
- the Foot Fixing has a shell shape made of NYLON with FIBER GLASS which gives the Foot Fixing a lot of resistance;
- all shapes are rounded to a refined design and in compliance with safety regulations;
- the closing of PILOMAT PARKY includes the following types: European cylinder with different keys, European cylinder with the same keys, predisposition for the use of a common padlock;
- the model ARB580 includes a base to ground, made with elastomers recycled to obtain the complete placing of the barrier when the same is in the open position.



AR100



AR600



AR700



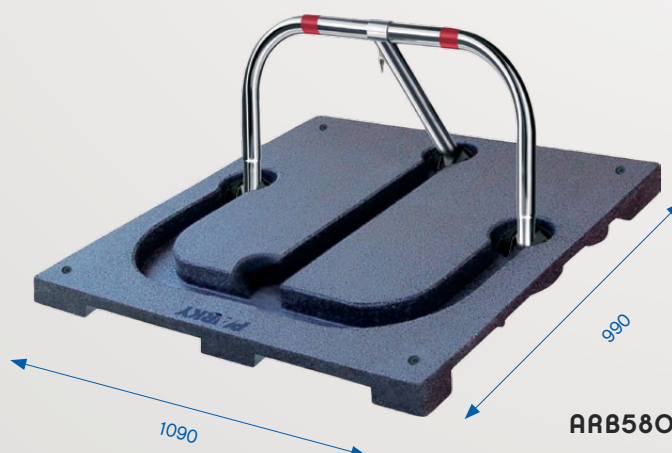
AR580



AR50

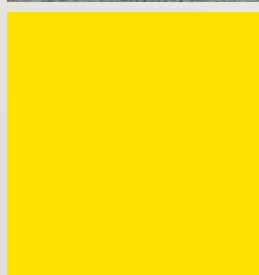
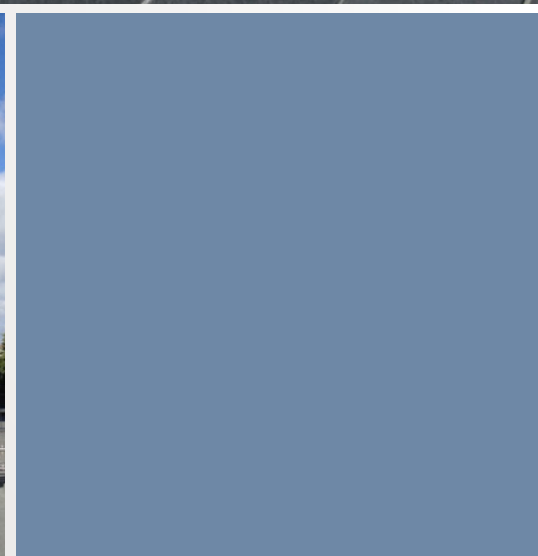
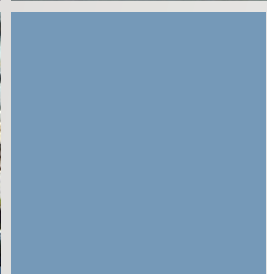


AR200



ARB580





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• 100% MADE IN ITALY



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