

# PILOMAT<sup>®</sup>

**RETRACTABLE SYSTEMS**



**One idea, many solutions.**



## **PASS**

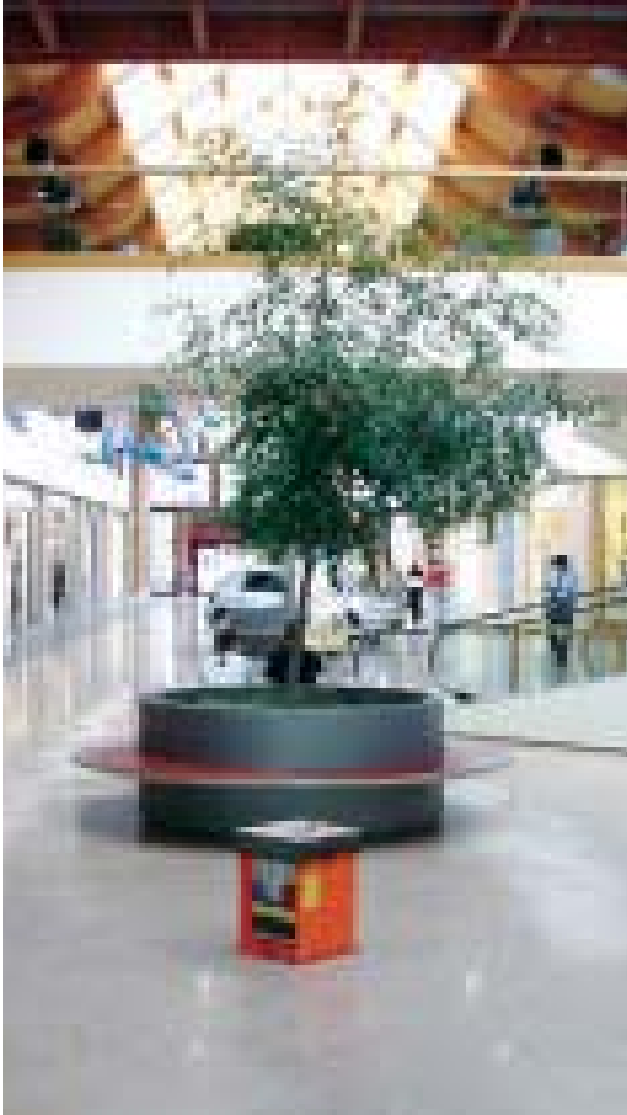
Access control  
Traffic management



## **ENERGY**

Energy Supplying  
electric power and  
complementary services

Retractable bollards to deliver electric power and complementary services.



**PILOMAT**  
ENERGY

**PILOMAT ENERGY and PILOMAT LONDON:**

are ideal to be used with the utmost safety and efficiency both in indoor and outdoor environments, for example: markets, squares, areas used for entertainment events, sports centres, shopping centres, trade fair pavilions, conference halls, etc. The bollards are activated by a key-operated control and subsequently raised automatically via a gas operated actuator.

**PILOMAT ENERGY:** mobile retractable tower with semi-automatic movement to deliver: electric power – water – telephony – data transmission – compressed air. **The configuration can include up to 12 electric power sockets.**

**PILOMAT LONDON** mobile retractable structure with semi-automatic movement to deliver: electric power – water – telephony – data transmission – compressed air. **Enables utilities to be connected and encloses the mobile structure.**



**Energy A35 - 50SL**  
ø 350 mm - H 500 mm



**Energy 4040-55**  
400 X 400 mm - H 500 mm



**London 6040**  
400 x 600 mm



**London 8050**  
500 x 800 mm





The idea that solves traffic congestion and access control problems.

PILOMAT® PASS solutions are currently the most widely used and tested mobile retractable bollards adopted for multiple applications, for example:

- **private use and for reserved spaces:**  
private parking - parking spaces for the disabled - parking spaces for Company Executives - parking spaces for customers;
- **access control:** private, company, industrial and commercial vehicle entrance accesses;
- **control for limited vehicle traffic and pedestrian zones:** city centres - pedestrian areas - traffic lanes reserved for public transport vehicles (trams - buses - taxis) - street market areas;
- **anti-intrusion and anti-terrorism security:**  
Company and forwarding agent warehousing facilities industries - shopping centres - research centres embassies - police stations and military bases Ministerial buildings and sensitive sites in general.



## Pilomat Pass 275/K12 L1 - 900



### Crash test Level K12 L1

American certification **SD-STD-02.01** performed at the Texas Transport Institute the Texas A&M University System, Texas U.S.A.



### Automatic PILOMAT PASS

These bollards can be configured with multiple optional articles, according to the installation requirements, for example:

- command features (radio transmitters, inductive badges, vehicle entrance tags, key-operated selectors, numerical key pads, timers - etc.)
- security features (inductive loops, infrared/ultrasonic detection sensors, etc.)
- configuration features (intermittent warning lights integrated in the PILOMAT head, acoustic buzzer warning, automatic retraction devices in the event of a blackout, emergency fast raising booster, traffic warning lights, heating circuits, remote control and plant management systems, etc.)

### Semi-automatic PILOMAT PASS

These are identical in appearance to the automatic versions and can be used independently or to support the automatic versions. The operating principle is as follows: when in the retracted position, the PILOMAT unit is activated by turning the key, the PILOMAT is raised automatically via a gas-operated actuator incorporated in the unit; when the PILOMAT is in the raised position, turn the locking key to lower the bollard applying slight pressure with one foot and then block when at pavement level.

### Fixed PILOMAT PASS

These are identical in appearance to the previous versions and can be used to support the automatic and semi-automatic versions when there is a need to partially restrict the vehicle traffic access area.



## PILOMAT PASS 127/P – 500, 600, 800

## PILOMAT PASS 220/C - 220/CL - 600



Automatic – semi-automatic - fixed

diameter: 127 mm  
 height: 500, 600, 800 mm  
 cylinder thickness: 6 mm  
 raising speed: 10 cm/sec  
 lowering speed: 10 cm/sec (20 cm/sec with DISP 23)  
 use: intensive  
 standard finish: anthracite grey painted finish  
 optional finish: RAL colour scale painted finish  
 optional finish (Stainless steel version): satin finish stainless steel  
 impact resistance: 5.000 J  
 breakout resistance: 60.000 J

### RECOMMENDED USES

private parking areas  
 parking areas reserved for the disabled  
 parking areas for Company Executives  
 customer parking areas  
 private vehicle entrance accesses



CL Version

Automatic – semi-automatic - fixed

diameter: 220 mm  
 height: 600 mm  
 cylinder thickness: 4 mm  
 raising speed: 6 cm/sec  
 lowering speed: 20 cm/sec  
 use: 60 operations/day  
 standard finish: anthracite grey painted finish  
 optional finish: ivory or orange painted finish  
 optional finish (Stainless steel version): satin finish stainless steel  
 impact resistance: 5.000 J  
 breakout resistance: 60.000 J



## PILOMAT PASS

275/P - 400, 500, 600, 800

## PILOMAT PASS

355/P - 500, 600, 800

APPROVED BY



*Ministero delle Infrastrutture*

ISPETTORATO GENERALE PER LA CIRCOLAZIONE E LA SICUREZZA STRADALE

### RECOMMENDED USES

- private vehicle entrance accesses
- company vehicle entrance accesses
- industrial vehicle entrance accesses
- commercial vehicle entrance accesses
- city centres
- pedestrian areas
- road lanes reserved for public transport
- company, forwarding agent
- warehousing facilities



Automatic – semi-automatic - fixed

- diameter: 275 mm
- height: 400, 500, 600, 800 mm
- cylinder thickness: 6 mm (10 mm reinforced version)
- raising speed: 10 cm/sec
- lowering speed: 10 cm/sec (20 cm/sec with DISP 23)
- use: intensive
- standard finish: anthracite grey painted finish
- optional finish: RAL colour scale painted finish
- optional finish (Stainless steel version): satin finish stainless steel
- impact resistance: 9.000 J
- breakout resistance: 120.000 J - (180.000 J reinforced version)



Automatic – semi-automatic – fixed

- diameter: 355 mm
- height: 600, 800 mm
- cylinder thickness: 6 mm
- raising speed: 10 cm/sec
- lowering speed: 10 cm/sec (20 cm/sec with DISP 23)
- use: intensive
- standard finish: anthracite grey painted finish
- optional finish: RAL colour scale painted finish
- optional finish (Stainless steel version): satin finish stainless steel
- impact resistance: 9.000 J
- breakout resistance: 120.000 J



## PILOMAT PASS 275/K - 700

## PILOMAT PASS 275/K12 L1 - 900



Automatic - fixed

diameter: 275 mm  
 height: 700 mm  
 cylinder thickness: 10 mm  
 raising speed: 10 cm/sec  
 lowering speed: 20 cm/sec  
 use: intensive  
 standard finish: anthracite grey painted finish  
 optional finish: RAL colour scale painted finish  
 optional finish (Stainless steel version): satin finish stainless steel  
 impact resistance: 15.000 J  
 breakout resistance: 450.000 J

### RECOMMENDED USES

- company vehicle entrance accesses
- industrial vehicle entrance accesses
- vehicle entrance accesses for industries
- research centres
- embassies
- police stations
- military bases
- ministerial buildings
- sensitive sites in general

knurled cylinder (optional)



Automatic - fixed

diameter: 275 mm  
 height: 900 mm  
 cylinder thickness: 25 mm  
 raising speed: 20 cm/sec  
 lowering speed: 20 cm/sec  
 use: intensive  
 standard finish: anthracite grey painted finish  
 optional finish: RAL colour scale painted finish  
 optional finish (Stainless steel version): satin finish stainless steel  
 impact resistance: 19.000 J  
 breakout resistance: 1.800.000 J



# PILOMAT<sup>®</sup>

RETRACTABLE SYSTEMS

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