

PILOMAT[®]

RETRACTABLE SYSTEMS



One idea, many solutions.



PASS

Traffic management
Access control
Security anti-terrorism



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 Transportation 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
Repubblica Italiana

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: 630.000 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



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PILOMAT S.r.l.

Via Zanica, 17/P
24050 Grassobbio (Bg) Italy
Tel. +39.035.297220
Fax. +39.035.297094

www.pilomat.com
pilomat@pilomat.com