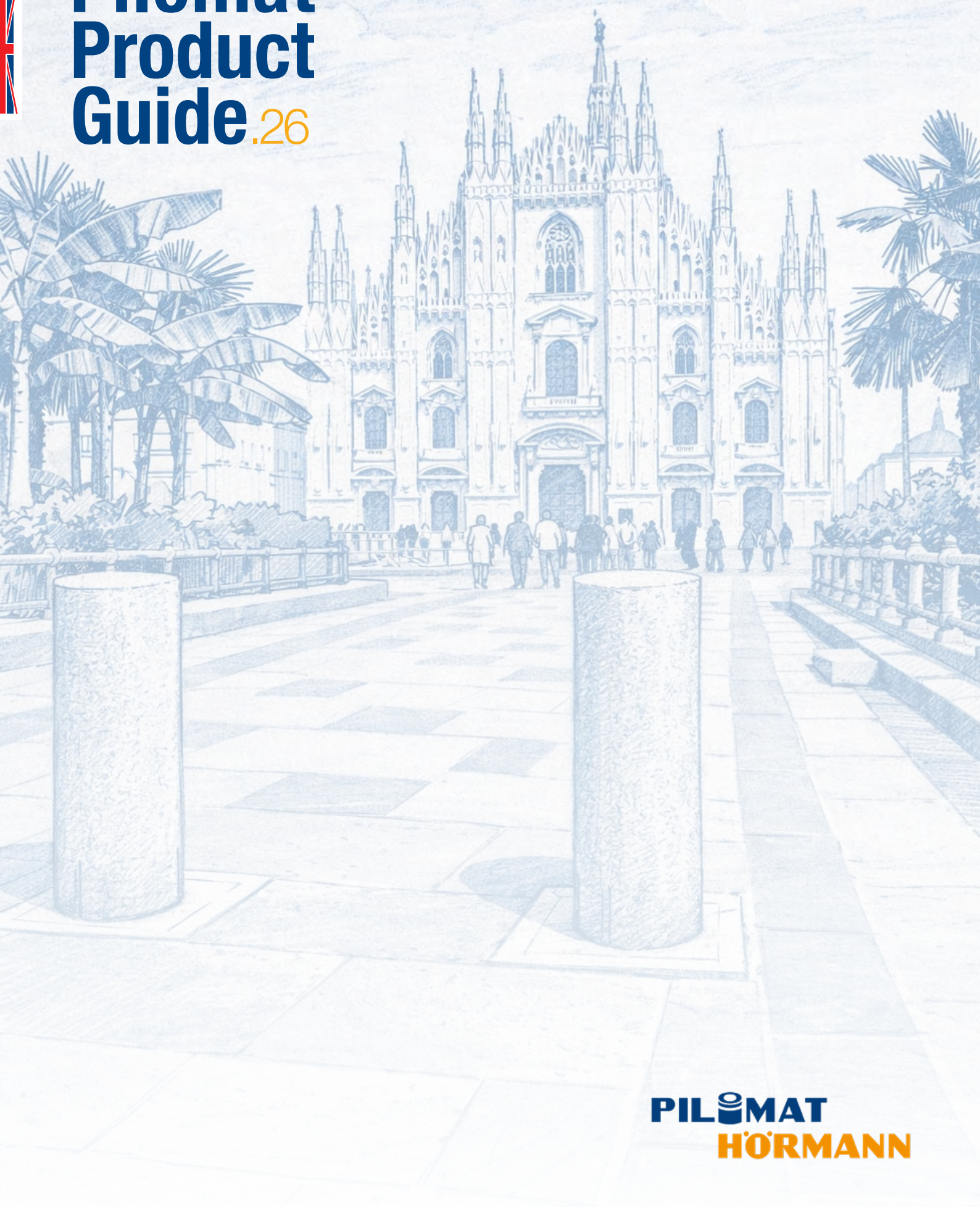




Pilomat Product Guide.26





07 Security Line



20 High Security Line



34 Accessories



37 Supply stations



38 Parking barriers

Pilomat, synonymous with automatic bollard

For **over fifty years**, Pilomat has been synonymous with expertise and innovation in the field of **vehicle access control** and **perimeter security**. Based in **Grassobbio**, in the province of Bergamo, the company has grown from a local reality to an internationally recognized brand, now present in over 50 countries with thousands of systems installed worldwide.

The heart of our production is in Italy, where mechanical **engineering**, **electronic know-how**, and **design** come together to create reliable, long-lasting solutions for vehicle flow control: automatic bollards, barriers, road blockers, mobile and integrated systems designed to protect historic centers, sensitive sites, urban areas, and strategic infrastructure.



Pilomat, synonymous with automatic bollards

Since 2016, Pilomat has been part of the **Hörmann Group**, the European leader in residential and industrial closures. This synergy has strengthened our global presence while preserving the authenticity of Made in Italy.

A major milestone, our greatest pride

The recognition of our solutions across various countries has enabled us to achieve a result of which we are extremely proud: today, Pilomat has become synonymous with automatic bollards.

Why choose Pilomat?



A complete range for every need

From residential settings to high-security sites, Pilomat offers the most comprehensive range of bollards, barriers, road blockers, mobile solutions, and accessories. Every project finds its answer—with no compromise between protection, aesthetics, and functionality.



Fast installation, no surprises

Each Pilomat product is **100% tested before delivery**. Pre-installed cables, pre-configured control units, and simplified interfaces provide real advantages for installers: **shorter installation time, fewer errors, and lower costs**.



Certified quality and superior resistance

More than 20 crash-rated products, tested and certified according to PAS68, IWA 14-1, ASTM, DIN SPEC, and ISO 22343 standards, ensuring maximum security even under extreme impact conditions. High-quality materials and strict control ensure long-term reliable protection.



Tailored technology for every project

Thanks to our **in-house Research & Development department**, we design highly **customizable systems**, developed in close collaboration with the client. From a single bollard to the most complex integrated systems, we transform every need into a concrete solution.

Certified and Authorized **Security**

First to obtain the Italian Approval

In Italy, Pilomat bollards were the first to pass the stringent tests of the Ministry of Transport — Department for Land Transport, Directorate General for Motor Vehicles. We have long held **two certifications** that officially authorize the installation of our bollards on public land throughout the country.



MINISTERO
DELLE INFRASTRUTTURE
E DEI TRASPORTI



275/P-600A OM
275/P-800A OM

page 11



International Certifications

Investments in Research & Development, the continuous evolution of our products, the careful selection of materials, and the rigorous testing carried out to ensure the **highest security** of Pilomat solutions are the foundation of our design and manufacturing operations—resulting in a quality that is recognized through the prestigious international certifications we have achieved.



Measure impacts. Reduce emissions. Conserve resources.

Measuring is the first step towards improvement

Since 2016, Pilomat has been part of the Hörmann Group and shares its approach to **reducing emissions and conserving resources**, adopting concrete measures such as the use of electricity from certified renewable sources.

Since 2020, Pilomat has calculated its **Corporate Carbon Footprint (CCF)** and, since 2022, the **Product Carbon Footprint (PCF)** of its main product categories: retractable and fixed bollards, road blockers, barriers and energy supply stations.

The calculations, carried out with the support of **Climate Partner** in accordance with the GHG Protocol standards, make it possible to quantify greenhouse gas emissions and identify the main emission sources on which reduction measures can be focused.



Documented environmental impacts

For the **275/K12EMB-900A** and **275/K12-900A** automatic bollards, Pilomat has an **Environmental Product Declaration (EPD)**, third-party verified in accordance with ISO 14025 and EN 15804.

The declaration provides environmental information based on the products' life cycle assessment, making **verified and transparent data** available to designers and customers.

275/K12EMB-900A
275/K12-900A

page 20-21



Reg. EPDITALY0412
Valid. 25.05.2028
www.epditaly.it



Automatic bollards - Electromechanical Plug & Play

Security and ease of use in a single solution

E-GO
SERIES



Smart protection for your home... and your car

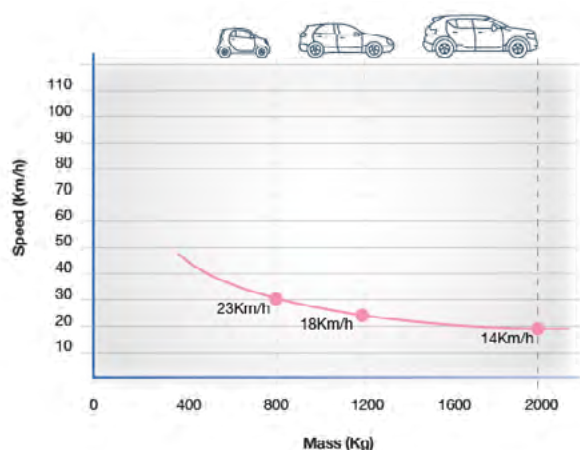
The automatic bollards of the **E-GO Series** are the ideal solution for those looking for an **effective security system** that is **easy to install** and requires **minimal maintenance**. Thanks to Plug & Play technology, installation is immediate and management is intuitive.

- Perfect for **residential driveways and parking spaces**
- **Quick installation** in under one hour
- Control system for **2 bollards simultaneously**
- **Low maintenance** thanks to electromechanical technology
- **Modular control housing** with a maximum distance of 30m between bollard and control unit.

Smart! Choose E-GO for a **protected, smart, and simple access.**



E-GO 114-600A		E-GO 114-800A	
114		114	Diameter (mm)
600		800	Height (mm)
7s		9s	Rising time
7s		9s	Lowering time
100		100	Daily cycles
16.000 J		16.000 J	Breakout resistance



Breakout resistance
● 16,000 J





EM
SERIES



Automatic bollards with electromechanical actuator

Technology and simplified management

Innovation and reliability for intensive use

The automatic bollards of the **EM Series** use electromechanical technology designed to ensure **reliable performance and reduced maintenance**. A solution particularly suitable for residential and urban environments, where **quiet operation**, **frequency of use** and **ease of management** are important requirements.

- **Available in different models** to suit any security requirement
- Ideal for **high-frequency use** (up to 1,000 cycles/day)
- Centralized control of up to **9 bollards simultaneously**
- Simplified installation with **preconfigured wiring**
- **Smooth and silent movement**.

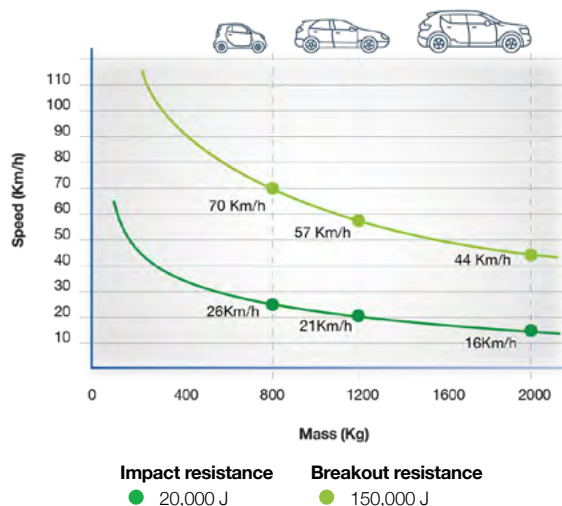
Smart! The choice for applications where the **absence of hydraulic oil** is a requirement.



127/EM 600A 127/EM 800A 220/EM 600A 220/EM 800A 275/EM 600A 275/EM 800A

	127/EM 600A	127/EM 800A	220/EM 600A	220/EM 800A	275/EM 600A	275/EM 800A
Diameter (mm)	127	127	220	220	273	273
Height (mm)	600	800	600	800	600	800
Rising time	5s	6,5s	5s	6,5s	6s	7s
Lowering time	4,5s	5,5s	4s	5s	5s	5,5s
Daily cycles	100	100	1000	1000	1000	1000
Breakout resistance	150.000 J	150.000 J	150.000 J	150.000 J	150.000 J	150.000 J
Impact resistance *	20.000 J	20.000 J	20.000 J	20.000 J	20.000 J *	20.000 J *

* Certified by Tüv Rheinland



Automatic bollards with integrated hydraulic unit

Security for high-traffic areas



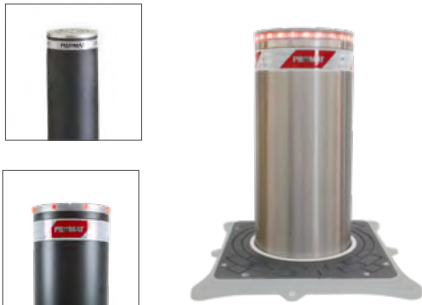
Perfect for managing urban and commercial access

The automatic bollards of the **P Series** are the ideal choice for managing urban traffic and controlling access in **historic centers, residential areas, corporate parking lots, and commercial zones**. Thanks to the **integrated hydraulic technology**, they ensure **continuous and safe operation even under heavy traffic conditions**.



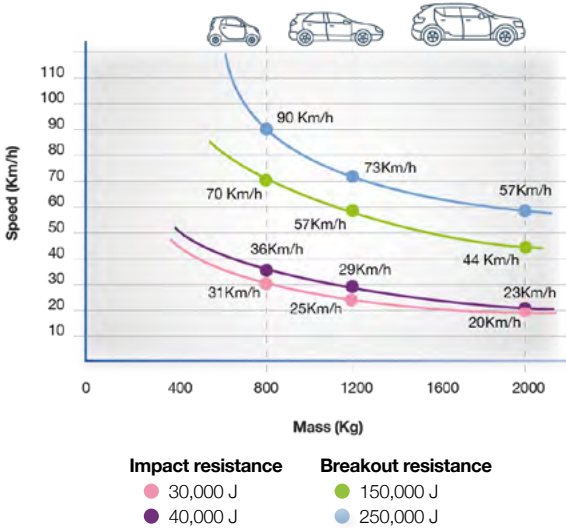
- Smart access control for **historic centers and Limited Traffic Zones (ZTL)**
- **Protection** for private and commercial parking areas with high flow
- **Resistance up to 250,000 J** to meet urban requirements
- **Simultaneous management of multiple bollards**
- Various configurations for **perfect integration in urban settings**.

Smart! Easier maintenance when choosing the **removable hydraulic unit**



127/P 600A	127/P 800A	220/P 600A	220/P 800A	275/P 400A 275/P 500A	275/P 600A 275/P 800A	
127	127	220	220	273	273	Diameter (mm)
600	800	600	800	400 500	600 800	Height (mm)
2,5s	3s	3s	3,5s	2,5s 3s	3,5s 4,5s	Rising time
2s	2,5s	2s	2,5s	1,5s 2s	2s 2,5s	Lowering time
2000	2000	2000	2000	2000	2000	Daily cycles
150.000 J	150.000 J	150.000 J	150.000 J	250.000 J	250.000 J	Breakout resistance
30.000 J	30.000 J	30.000 J	30.000 J	40.000 J *	40.000 J *	Impact resistance

* Certified by Tüv Rheinland





P10 SERIES



Reinforced automatic bollards with hydraulic unit

Superior protection for logistics and transportation

Maximum protection for companies, warehouses, and logistics

The automatic bollards of the **P10 Series** are designed to ensure **high protection in corporate and private settings** where a higher security level is required. Perfect for managing access to **warehouses, logistics centers, and industrial facilities**, they ensure strict traffic control and prevent unauthorized intrusions.

- Breakout resistance of **400,000 J**, the highest in the Safety Line
- **Reinforced 10 mm cylinder** for superior security
- **Integrated hydraulic system** for intensive and reliable use
- **Flexible management**, with up to 80m distance between bollard and control unit
- Also available with **biodegradable oil**.

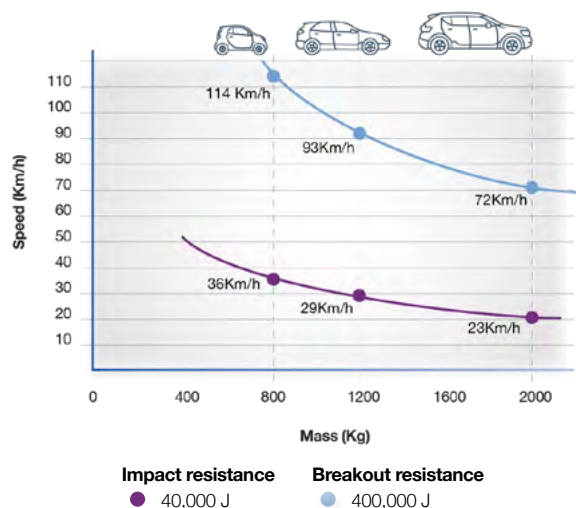


275/P10 600A

275/P10 800A

Diameter (mm)	273	273
Height (mm)	600	800
Rising time	4s	4,5s
Lowering time	2s	2,5s
Daily cycles	2000	2000
Breakout resistance	400.000 J	400.000 J
Impact resistance *	40.000 J *	40.000 J *

* Certified by Tüv Rheinland



Automatic bollards with Italian approval

The ultimate solution for managing traffic-restricted areas



Perfect for controlling urban and commercial access

The **OM Series** is the absolute benchmark to control traffic in restricetd traffic zones. Certified for installation on public property in Italy, it is the safest and most effective choice for municipalities aiming to **manage vehicle flow** in pedestrian zones, shopping streets, and historic centers.

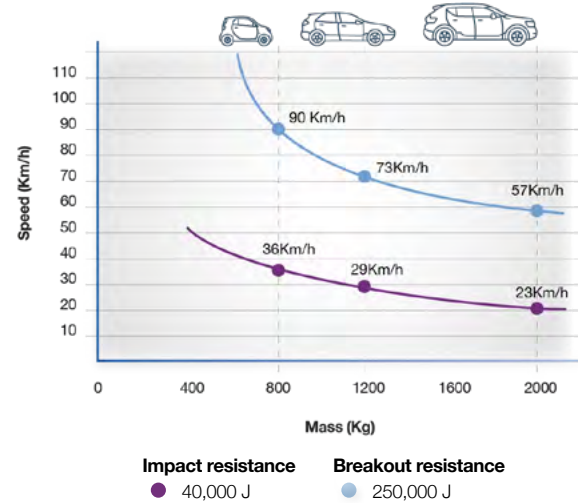
Mandatory accessories for installation on public property:

- **Traffic light** for flow regulation
- **Warning sign** for retractable bollards
- **Induction loops** for automatic vehicle detection
- **LED strip and acoustic signal** for visibility and safety
- **Time programmer** for automated access management
- **Acoustic analyzer** for emergency vehicle siren recognition
- **Emergency** break glass button for **manual release**.



275/P 600A OM8	275/P 800A OM8	
273	273	Diameter (mm)
600	800	Height (mm)
3,5s	4,5s	Rising time
2s	2,5s	Lowering time
2000	2000	Daily cycles
250.000 J	250.000 J	Breakout resistance
40.000 J *	40.000 J *	Impact resistance

* Certified by Tüv Rheinland





SEMI-AUTOMATIC

P
SERIES



PUBLIC



COMMERCIAL



PRIVATE

Semi-automatic bollards with gas spring

Security without electrical power

Simple and intuitive access control

The **P Series** semi-automatic bollards are the ideal solution for those seeking a reliable security system for **occasional use**. Perfect for restricted traffic areas, **private driveways**, corporate **parking lots**, and **residential zones**, they offer effective protection without the need for electrical power.

Thanks to the gas spring, the bollard **risers automatically**, while **lowering is performed manually** and intuitively with light foot pressure.

- **No electrical power required**
- **Manual lowering** and **automatic rising** via gas spring
- **Guaranteed safety** with integrated lock compliant with UE standard DIN 18252
- **Low costs** of installation and maintenance.



	127/P 500SA	127/P 600SA	220/P 600SA	220/P 800SA	275/P 500SA	275/P 600SA	275/P 800SA
--	-------------	-------------	-------------	-------------	-------------	-------------	-------------

Diameter (mm)	127	127	220	220	273	273	273
Height (mm)	500	600	600	800	500	600	800
Rising time	2,5	3s	3s	4s	2,5s	3s	4s
Lowering time	Manuale						
Breakout resistance	150.000 J	150.000 J	150.000 J	150.000 J	250.000 J	250.000 J	250.000 J
Impact resistance	30.000 J	30.000 J	30.000 J	30.000 J	30.000 J *	30.000 J *	30.000 J *

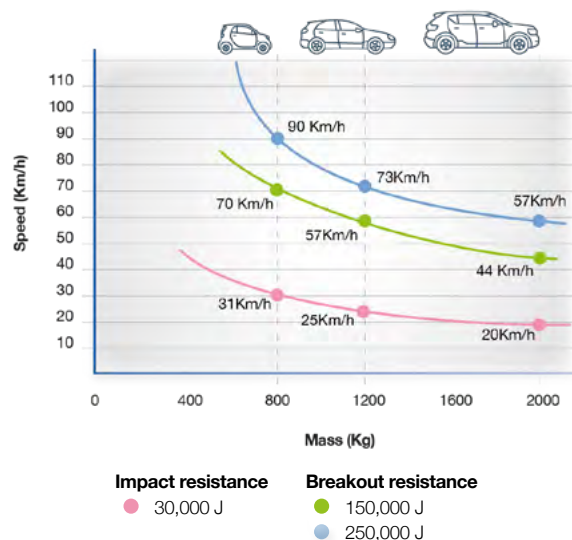
* Certified by Tüv Rheinland



STANDARD



OPTIONAL

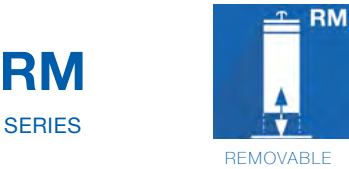


Impact resistance
● 30,000 J

Breakout resistance
● 150,000 J
● 250,000 J

Removable bollards with closed base

Flexible and versatile protection



Access only when needed

The **RM Series** removable bollards offer a **safe and versatile** solution for access control in **areas with infrequent traffic**.

Unlike other systems, the cylinder can be **easily removed without tools**, thanks to the **ergonomic handle** and reduced weight.

Additionally, the **base plate** fully seals the opening, **ensuring safety for pedestrians and vehicles**.

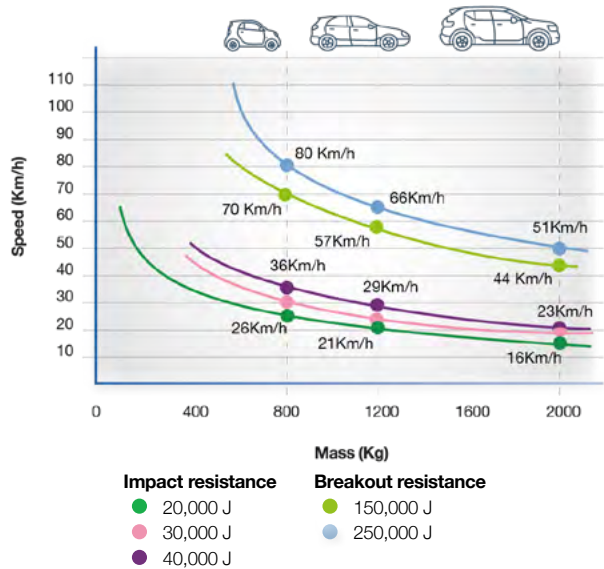
- Removable cylinder with a **quick and intuitive system**
- Fast installation with **only 300mm excavation**
- **No need for electrical power**
- **Safe: handle unlocking protected** by European-standard lock (DIN 18252).



127/RM 600	127/RM 800	220/RM 600	220/RM 800	275/RM 600A	275/RM 800	
127	127	220	220	273	273	Diameter (mm)
600	800	600	800	600	800	Height (mm)
11	13	19	23	22,5	27,5	Cylinder weight (Kg)
150.000 J	150.000 J	150.000 J	150.000 J	200.000 J	200.000 J	Breakout resistance
20.000 J	20.000 J	30.000 J	30.000 J	40.000 J	40.000 J	Impact resistance



STANDARD





FIXED

PF|PL
SERIES



PUBLIC



COMMERCIAL



PRIVATE

Fixed bollards

Security and boundary definition

Permanent delimitation and protection

Fixed bollards of the **PF and PL Series** provide continuous and reliable protection for buildings, squares, and pedestrian areas. Both versions **can be equipped with an LED strip** for improved night visibility — ensuring safety and a consistent aesthetic in any urban or corporate environment.

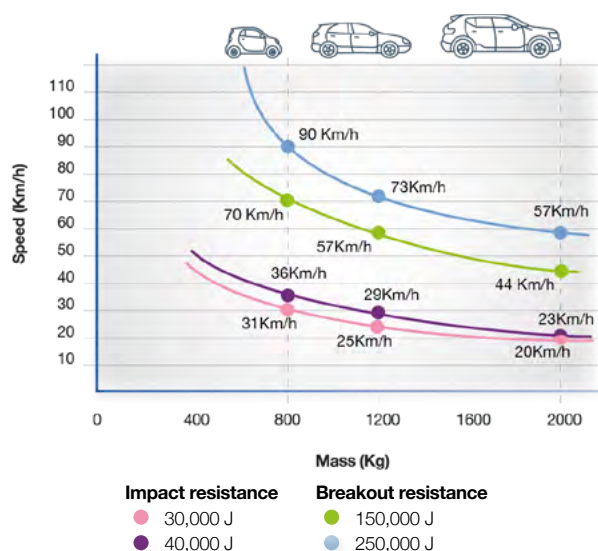
- **PF Series:** with **ground anchors**, it is the ideal solution for permanent protection of non-trafficable areas. The direct anchoring ensures stability and quick installation.
- **PL Series:** equipped **with a counterframe**, it is designed to integrate with automatic and semi-automatic bollards, maintaining a coordinated appearance. The cylinder can be easily removed for replacements or special events.

Smart! Saline environment? **Marine anti-corrosion treatment** ensures extra protection.



	127/500F	127/600F	127/800F	220/600F 220/800F	275/500F	275/600F 275/800F
Diameter (mm)	127	127	127	220	273	273
Height (mm)	500	600	800	600 800	500	600 800
Breakout resistance	150.000 J	150.000 J	150.000 J	150.000 J	250.000 J	250.000 J
Impact resistance	30.000 J	30.000 J	30.000 J	30.000 J	40.000 J *	40.000 J *

* Certified by Tüv Rheinland



Impact resistance
 ● 30,000 J
 ● 40,000 J
Breakout resistance
 ● 150,000 J
 ● 250,000 J

Fixed bollards with reinforced basement and cylinder

Superior protection for critical areas



The most resistant fixed bollards of the Security Line

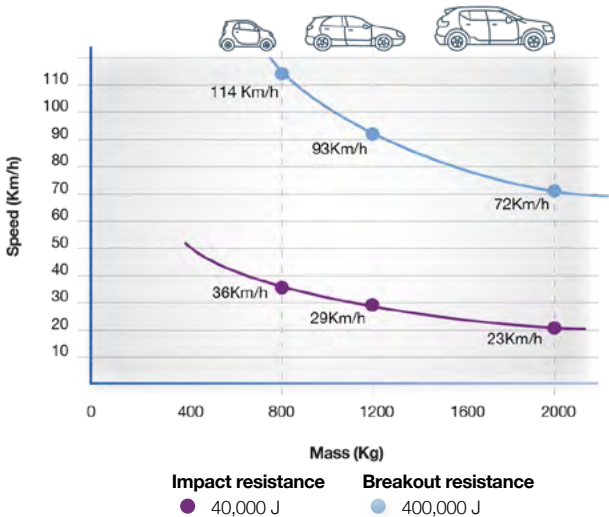
The fixed bollards of the **FB Series** are designed to offer the highest level of protection within the Pilomat Security Line. Thanks to their **reinforced basement** and high-strength cylinder, they are the ideal solution for **securing critical or sensitive zones**.

- **The strongest bollards** of the Pilomat Security Line: **400,000 Joules**
- Reinforced basement and stronger cylinder for **superior protection**
- **Ideal for perimeter protection** of buildings and sensitive areas
- **Optional LED strip** for improved night visibility.



275/P10 600F	275/P10 800F	
273	273	Diameter (mm)
600	800	Height (mm)
400.000 J	400.000 J	Breakout resistance
40.000 J *	40.000 J *	Impact resistance

* Certified by Tüv Rheinland





RT
SERIES

FIXED



PUBLIC



COMMERCIAL



PRIVATE

Fixed bollards with anchor bolts

Faster installation, no excavation required

The perfect balance between safety and aesthetic integration

The **RT Series fixed bollards** are designed to provide high impact resistance and reliable protection, even in complex environments such as bridges, viaducts, or roads **with limited slab thickness**. Thanks to **chemical anchors** fitting, they require no excavation or invasive work, ensuring a safe and solid fixing.

- **Quick installation** with chemical anchors
- High-strength structure, with **performance verified** through impact tests
- **Essential and robust design**, suitable for a wide range of architectural contexts
- **Broad customization options** in finishes, dimensions, and materials.



Smart! Crash test available soon.

220/RT 800F

Diameter (mm)	220
Height (mm)	800
Breakout resistance	124.000 J
Impact resistance	80.000 J



Design fixed bollards

Security and elegance for urban spaces



Style, security and convenience in a single solution

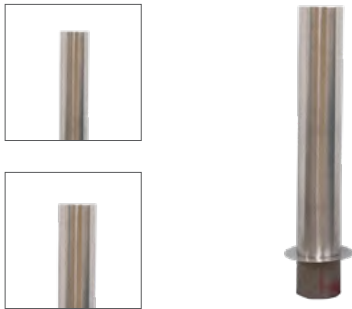
The **Design fixed bollards** are made for those seeking **effective protection** with a visually harmonious appearance—perfect for historic centers, pedestrian zones, prestigious buildings, and modern urban areas.

Available in different finishes, including **painted steel or stainless steel**, they seamlessly integrate into the surrounding architectural context.



- **Five models** and three diameters to ensure seamless integration
- **Quick installation** via concrete embedding or screw-on flange
- Version with **bike lock support (model LH)**
- Also available in a **removable version** for greater versatility (**model RM**).

Smart! With **optional reinforcement rod**, it withstands **impacts up to 200,000 J**, equivalent to a compact car at 60 km/h.



102/900F	140/900F	168/900F	
102	140	168	Diameter (mm)
900	900	900	Height (mm)
Standard	Standard	Standard	Setting in concrete
Optional	Optional	Optional	Screw-on flange



140/900F-LH

With lock for bicycles



140/900RM

Removable version





CG
SERIES

CITY GATE



MINISTERO
DELLE INFRASTRUTTURE
E DEI TRASPORTI

Mobile barrier for traffic management

Security barrier with planter design

Design and safety for urban traffic

City Gate is a one-of-a-kind sliding mobile barrier designed to regulate access to **pedestrian areas, traffic-restricted zones, and city centers** in a low-impact and elegant way.

Unlike traditional barriers, City Gate also functions as a **planter**, it can be filled with flowers or plants **to blend perfectly into the urban environment**.

- **Possibility to plant flowers or plants** to enhance the area's aesthetics
- Quick installation, **no excavation** or construction work required
- **Sliding movement** for flexible access management
- **Equipped with photocells**, acoustic signals, and flashing lights for maximum safety.



**CITY GATE
SMALL**

Fixed structure dimension (mm)	1620 x 670 x h 900mm	2350 x 670 x h 900mm
Sliding structure dimension (mm)	1200 x h 630mm	1700 x h 630mm
Opening / closing time	18s	25s



One-side (right opening)

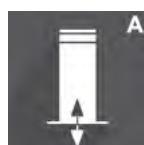


One-side (left opening)



Two-sides





EMB SERIES



TRIPLE CERTIFICATION
PAS68, IWA14, ASTM



Reg. EPDITALY0412
Valid. 25.05.2028
www.epditaly.it

Mod. 275/K12EMB-900A

Automatic bollards with brushless electromechanical drive

Maximum security and consistent performance

Designed for intensive use

The **EMB Series** brings brushless technology to the protection of critical infrastructure and sensitive areas. Designed for **high-frequency applications**, it combines electromechanical operation and crash-rated performance in a range of four models.

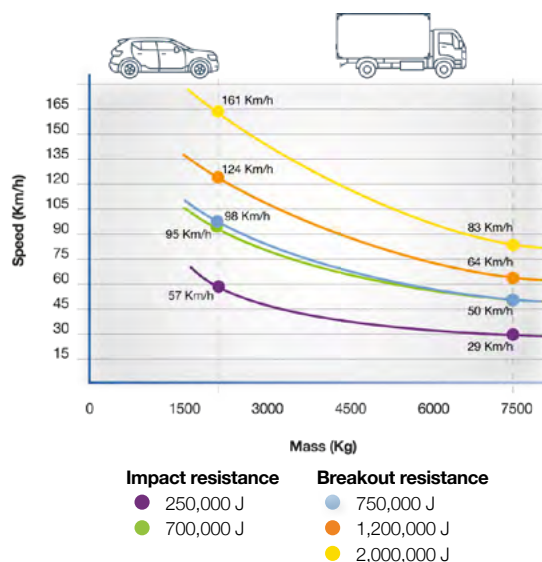
- **Brushless motor** for constant performance
- **EPD declaration** for model 275/K12EMB-900A
- **Extreme resistance: up to 2,000,000 J** of absorbed impact energy
- Certified to international standards: **PAS68, IWA 14-1, ASTM**
- **EFO option:** ultra-fast rising for emergency situations.

Unique! TÜV Rheinland verified durability test
2,000,000 non-stop cycles without damage!
(peak: 6,000 cycles/day – 270 cycles/hour)



275/K4EMB 900A 275/M30EMB 1200A 275/K12EMB 900A 275/M50EMB 1200A

	275/K4EMB 900A	275/M30EMB 1200A	275/K12EMB 900A	275/M50EMB 1200A
Diameter (mm)	273	273	271	271
Height (mm)	900	1200	900	1200
Rising time	4s	5,5s	4s	5,5s
Lowering time	4s	5,5s	4s	5,5s
Daily cycles	2000	2000	2000	2000
Breakout resistance	750.000 J	1.200.000 J	2.000.000 J	2.000.000 J
Impact resistance	250.000 J	700.000 J	700.000 J	700.000 J
Certified to	PAS68, IWA 14-1, ASTM M30 (K4)		PAS68, IWA 14-1, ASTM M50 (K12)	
In compliance with	-	ASTM M40 (K8)	-	-



HIGH SECURITY LINE

Automatic bollards with integrated hydraulic unit

Proven reliability for High Security

K/M

SERIES



PROTECTION



PUBLIC



COMMERCIAL

Direct control, from design to production

The **K/M Series** is Pilomat's hydraulic solution for protecting **critical infrastructure and sensitive areas**. The control unit, **developed and manufactured in-house**, allows direct control over the operating technology and offers different configurations to meet system requirements.

- **Reliable performance in intensive cycles** – ideal for high-traffic areas
- Also available with **biodegradable oil**
- **Extreme protection: up to 2,000,000 J** breakout resistance
- **Certified to PAS68, IWA 14-1, ASTM** international standards
- **EPD declaration** for model 275/K12-900A.

TRIPLE CERTIFICATION
PAS68, IWA14, ASTM



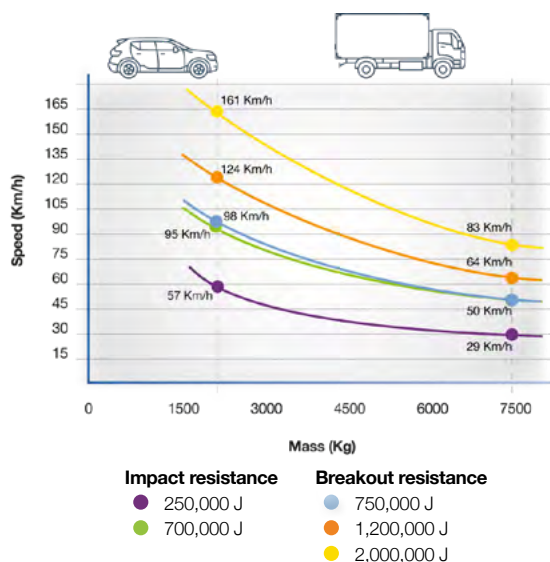
Reg. EPDITALY0412
Valid. 25.05.2028
www.epditaly.it

Mod. 275/K12-900A

Smart! Faster maintenance with **external hydraulic unit**
(optional available only for models K12/M50)



275/K4 700A	275/K4 900A	275/M30 1200A	275/K12 900A	275/M50 1200A	
273	273	273	271	271	Diameter (mm)
700	900	1200	900	1200	Height (mm)
3s	7s	5,5s	4s	5,5s	Rising time
2s	3,5s	4s	4s	4s	Lowering time
2000	2000	2000	2000	2000	Daily cycles
750.000 J	750.000 J	1.200.000 J	2.000.000 J	2.000.000 J	Breakout resistance
250.000 J	250.000 J	700.000 J	700.000 J	700.000 J	Impact resistance
-	PAS68, IWA 14-1, ASTM M30 (K4)		PAS68, IWA 14-1, ASTM M50 (K12)		Certified to
PAS68, IWA 14-1, ASTM M30 (K4)	-	ASTM M40 (K8)	-	-	In compliance with





K/M
SERIES



TRIPLE CERTIFICATION
PAS68, IWA14, ASTM

Semi-automatic bollards with integrated hydraulic unit

Certified protection for low-frequency access points

Simple operation, without electrical power supply

The **K/M Series** semi-automatic bollards are designed to protect access points used **occasionally**. Raising is performed using a drill/driver, while lowering is manually controlled by means of a valve, allowing the bollard to be operated even without an electrical power supply.

- **Integrated operating system**, with no external control unit
- **Certified** according to international standards **PAS68, IWA 14-1, ASTM**
- Certified protection against **truck impacts at 50 and 80 km/h**
- **Simplified installation and maintenance.**



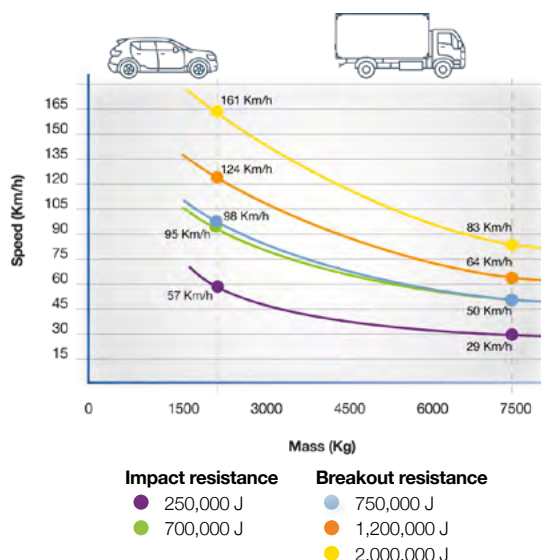
275/K4 900SA

275/M30 1200SA

275/K12 900SA

275/M50 1200SA

	275/K4 900SA	275/M30 1200SA	275/K12 900SA	275/M50 1200SA
Diameter (mm)	273	273	271	271
Height (mm)	900	1200	900	1200
Rising time	11s	15s	11s	15s
Lowering time	4,5s	6s	4,5s	6s
Breakout resistance	750.000 J	1.200.000 J	2.000.000 J	2.000.000 J
Impact resistance	250.000 J	700.000 J	700.000 J	700.000 J
Certified to	PAS68, IWA 14-1, ASTM M30 (K4)		PAS68, IWA 14-1, ASTM M50 (K12)	
In compliance with	-	ASTM M40 (K8)	-	-



Removable bollards with reinforced basement

Strength, innovation, and flexible use

RM
SERIES



Certified protection with quick removal

The High Security **removable bollards** combine certified protection with maximum efficiency, ideal for areas with limited or **occasional access**. The **smart unlocking and lifting system** is integrated into the head, ensuring protection against tampering. The cylinder can be **removed quickly** using a forklift or crane.

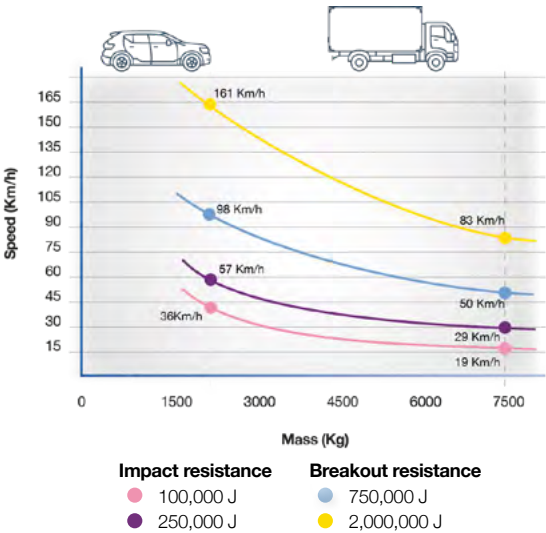
- Perfect for **mixed systems**, thanks to **matching design** with automatic models
- **Also available with LED lights** for improved visibility
- **Integrated unlocking and lifting system** for secure handling
- **Withstands impacts** with trucks **at 50 and 80 km/h**.

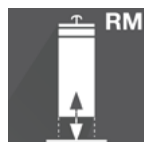


Smart! Also available in **shallow foundation version** for reduced excavation depth.



275/K4RM 700	275/K4RM 900	275/M30RM 1200	275/K12RM 900	275/M50RM 1200	
273	273	273	271	271	Diameter (mm)
700	900	1200	900	1200	Height (mm)
78	92	166	199	243	Cylinder weight (Kg)
750.000 J	750.000 J	750.000 J	2.000.000 J	2.000.000 J	Breakout resistance
100.000 J	100.000 J	100.000 J	250.000 J	250.000	Impact resistance
-	PAS68, IWA 14-1, ASTM M30 (K4)	-	-	-	Certified to
PAS68, IWA 14-1, ASTM M30 (K4)	-	PAS68, IWA 14-1, ASTM M30 (K4)	PAS68, IWA 14-1, ASTM M50 (K12)		In compliance with





RM
SERIES



PROTECTION



PUBLIC



COMMERCIAL

TRIPLE CERTIFICATION
PAS68, IWA14, ASTM



Removable bollards with shallow foundation

Flexible protection in presence of underground utilities

Guaranteed security with only 300 mm of excavation

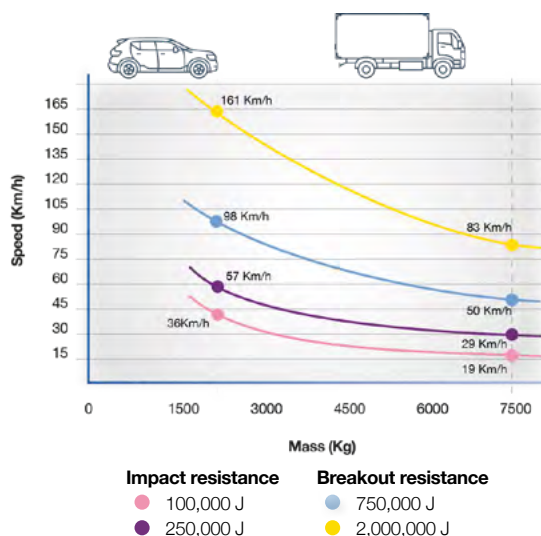
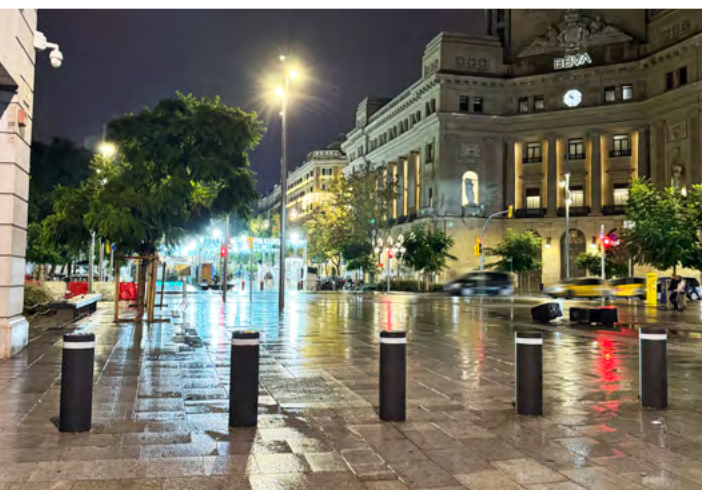
The removable **shallow foundation bollards** offer advanced protection with simplified installation, requiring **just 300 mm of excavation**.

The cylinder can be **quickly removed** using a forklift or crane, and the closed basement ensures maximum stability without leaving openings.

- **Only 300mm excavation** required (400 mm on stone surfaces)
- **Resistant to impacts** with trucks at **50 km/h** and **80 km/h**
- **Quick removal** via forklift or crane
- **Secure and integrated** unlocking and lifting system
- Designed in compliance with **ASTM, IWA 14-1, PAS68** standards.

Smart! More elegant and corrosion-resistant with the **stainless steel sleeve**.

	275/K4SF 900RM	275/K12SF 900RM	275/M50SF 1200RM
Diameter (mm)	273	273	273
Height (mm)	900	900	1200
Cylinder weight (Kg)	82	200	240
Foundation depth (mm)	300	300	300
Breakout resistance	750.000 J	2.000.000 J	2.000.000 J
Impact resistance	100.000 J	700.000 J	700.000 J
Certified to	PAS68, IWA 14-1, ASTM M30 (K4)	-	-
In compliance with	-	PAS68, IWA 14-1, ASTM M50 (K12)	



Fixed bollards with counterframe

Anti-terrorism security with coordinated design



Maximum security for perimeter protection

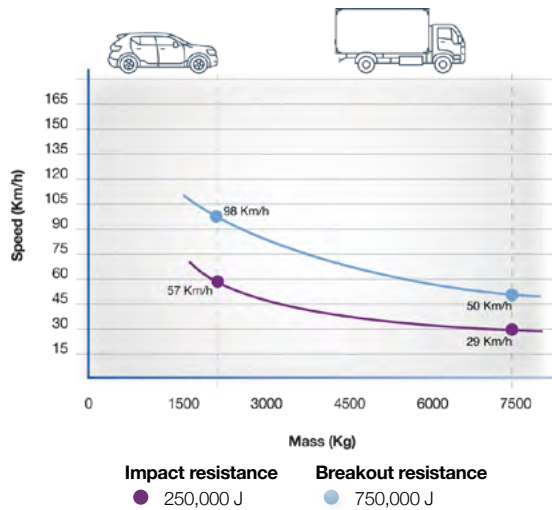
The **fixed anti-terrorism bollard with counterframe** guarantees perimeter protection for **sensitive areas, squares, and city centers**. Designed to withstand extreme vehicle impacts, it **matches perfectly with automatic bollards**, maintaining a consistent visual appearance.

- Perfect in **combination with automatic bollards**, thanks to identical design
- Also **available with LED lights** for improved nighttime visibility
- The **cylinder can be replaced** if needed
- It withstands **impacts from trucks at 50 km/h**.



275/K4 700F

273	Diameter (mm)
700	Height (mm)
1300	Foundation depth (mm)
750.000 J	Breakout resistance
250.000 J	Impact resistance
PAS68, IWA 14-1, ASTM M30 (K4)	In compliance with





FB
SERIES

FIXED



TRIPLE CERTIFICATION
PAS68, IWA14, ASTM

Fixed bollards with reinforced basement

Certified security for every level

Certified protection for pedestrian zones

The **FB Series fixed bollards** are ideal for **vehicle-restricted areas** and **perimeter protection** of buildings, providing certified security. The robust base and internal reinforcement ensure maximum resistance to **impacts from 7.5-ton trucks traveling at 50 to 80 km/h**.

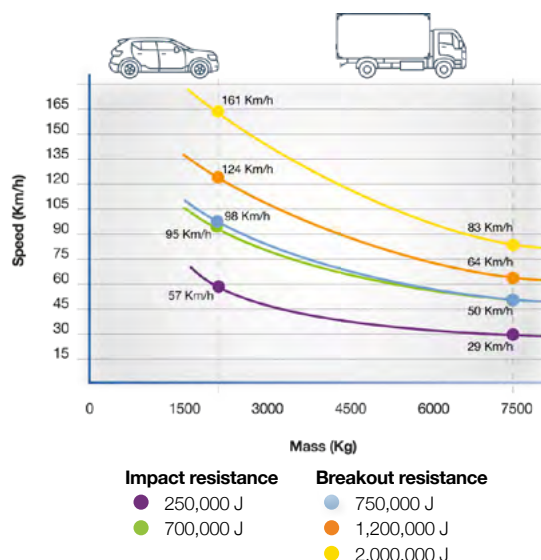
- Available in **painted steel**, **stainless steel**, or with **replaceable** stainless steel **sleeve** (K12/M50 models only)
- Optional **LED strip** for improved visibility
- Reinforced basement **to embed in concrete**
- Triple certification** to ASTM, IWA 14-1, PAS68 standards.



Smart! Now available with **welded top cover**, for a minimal and elegant design (K12/M50 models only).



	275/K4FB 700F	275/K4FB 900F	275/M30FB 1200F	275/K12FB 900F	275/M50FB 1200F
Diameter (mm)	273	273	273	271	271
Height (mm)	700	900	1200	900	1200
Foundation depth (mm)	500	600	600	700	700
Breakout resistance	750.000 J	750.000 J	1.200.000 J	2.000.000 J	2.000.000 J
Impact resistance	250.000 J	250.000 J	700.000 J	700.000 J	700.000 J
Certified to	-	PAS68, IWA 14-1, ASTM M30 (K4)		PAS68, IWA 14-1, ASTM M50 (K12)	
In compliance with	PAS68, IWA 14-1, ASTM M30 (K4)	-	ASTM M40 (K8)	-	-



Fixed bollards with simple structure

Certified security at the best price

ST
SERIES



Certified resistance and faster installation

The **ST Series fixed bollards** offer the **best quality-price ratio** in perimeter protection, ensuring security for **urban areas** and **sensitive buildings**. They withstand **impacts from trucks at 50 and 80 km/h**, providing maximum reliability.

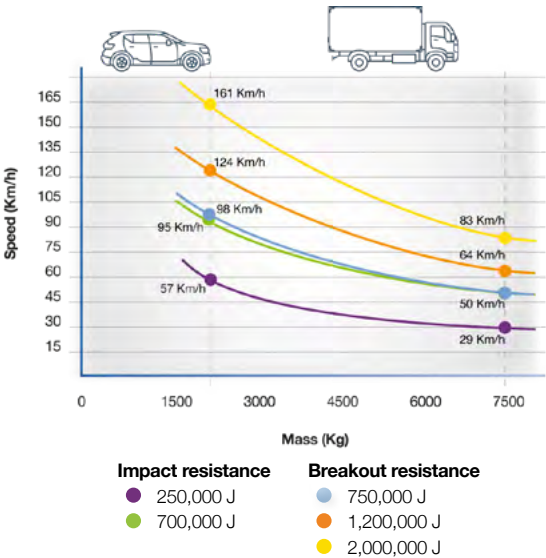
- **Best price** among Pilomat High Security fixed bollards
- Also available with **welded top plate**, for a cleaner and more minimal design
- Available with **stainless steel sleeve** (K12/M50 models only)
- **Available with LED lights** for enhanced visibility
- **Triple certification** to **ASTM, IWA 14-1, PAS68** standards.



Smart! If the **stainless steel sleeve** is damaged, it **can be easily replaced** without removing the entire bollard!



275/K4ST 700F	275/K4ST 900F	275/M30ST 1200F	275/K12ST 900F	275/M50ST 1200F	
273	273	273	273	273	Diameter (mm)
700	900	1200	900	1200	Height (mm)
600	600	600	700	700	Foundation depth (mm)
750.000 J	750.000 J	1.200.000 J	2.000.000 J	2.000.000 J	Breakout resistance
250.000 J	250.000 J	700.000 J	700.000 J	700.000 J	Impact resistance
-	PAS68, IWA 14-1, ASTM M30 (K4)	-	PAS68, IWA 14-1, ASTM M50 (K12)	-	Certified to
PAS68, IWA 14-1, ASTM M30 (K4)	-	PAS68, IWA 14-1, ASTM M30/M40 (K4/K8)	-	PAS68, IWA 14-1, ASTM M50 (K12)	In compliance with





SF
SERIES

FIXED



PROTECTION



PUBLIC



COMMERCIAL

TRIPLE CERTIFICATION
PAS68, IWA14, ASTM

Fixed bollards with shallow foundation

Certified protection – K4/M30 level

Modular security with reduced excavation depth

The **SF Series** shallow foundation bollards provide certified K4/M30 protection with a **reduced foundation depth**. The **modular system** allows multiple units to be combined, adapting to any area.

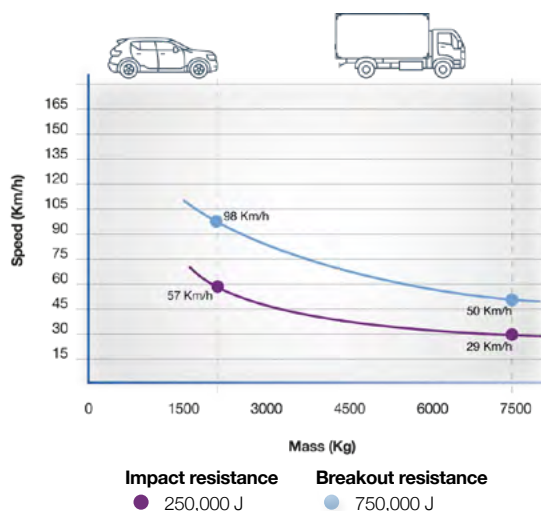
- Installation with **only 300 mm excavation** (300 mm on stone surfaces)
- Suitable for **projects with angle configuration** and sloped surfaces
- **Impact tested with trucks at 50 km/h**
- **Triple certification** to ASTM, IWA 14-1 and PAS68 standards.

Smart! Also available with **removable cylinder**.



275/K4SF 900F

Diameter (mm)	273
Height (mm)	900
Foundation depth (mm)	300
Breakout resistance	750.000 J
Impact resistance	250.000 J
Certified to	PAS68, IWA 14-1, ASTM M30 (K4)



Impact resistance 250,000 J
Breakout resistance 750,000 J

Fixed bollards with shallow foundation

Certified protection – K12/M50 level

SF
SERIES



PROTECTION



PUBLIC



COMMERCIAL

Maximum security with only 300 mm of excavation

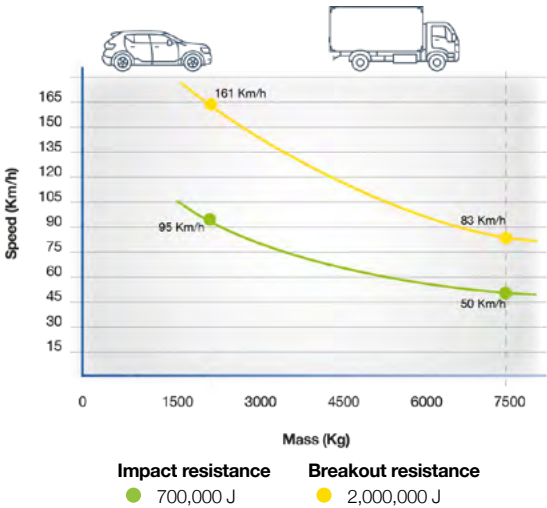
The **SF Series fixed bollards** provide certified protection, withstanding impacts from trucks **up to 80 km/h**. Their simplified installation requires only 300 mm of excavation. **Preassembled modules** can be connected to create **custom configurations**.

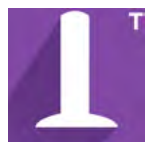
- Preassembled modules for **faster installation**
- Also available with **welded coverplate** for a cleaner and more minimal design
- Available in **painted steel**, **stainless steel**, or with a **replaceable stainless steel sleeve**
- **Certified** to international standards: **ASTM, IWA 14-1, PAS68**.

Smart! Also available in a version with **3,000,000 J breakout resistance**.



275/K12SF 900F		275/M50SF 1200F	
273		273	Diameter (mm)
900		1200	Height (mm)
300		300	Foundation depth (mm)
2.000.000 J		2.000.000 J	Breakout resistance
700.000 J		700.000 J	Impact resistance
PAS68, IWA 14-1, ASTM M50 (K12)			Certified to





T
SERIES



DOUBLE CERTIFICATION
PAS68 & IWA14

Temporary vehicle barriers

Oktablock

Instant protection, no installation required

Oktablock is a certified IWA14 and PAS68 **temporary security barrier**. No installation is needed—**just position it to ensure immediate protection**. In case of impact, it overturns to stop the vehicle without requiring anchoring.

Modular, transportable, and reusable, it adapts to any urban setting or event.

- Protects entrances to streets and spaces used for **outdoor events**
- Also **available in TR version**, certified by the **German Police**
- Withstands **impacts from trucks at 50 km/h**
- **Certified** according to **IWA 14-1 and PAS68** standards.



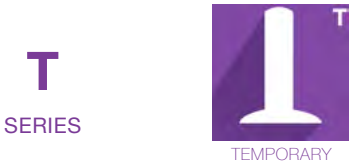
Smart! Easy to move and position thanks to
Oktamover!

	OKTABLOCK	OKTABLOCK TR
Diameter (mm)	273	273
Height (mm)	1250	1250
Base dimension (mm)	800 x 30 x 800	800 x 40 x 800
Bollard weight (Kg)	350	450
Breakout resistance	750.000 J	986.000 J
Certified to	PAS68, IWA 14-1	SK1B, TR Pol



Temporary vehicle barriers

Road Blocker Mobile RBM



Certified security for temporary events

Road Blocker Mobile RBM is a **hostile vehicle mitigation barrier, certified to ISO 22343-1:2023 and DIN SPEC 91414-2021-04** with manipulation level MK2. It is designed to effectively protect public areas during **outdoor events** such as concerts, festivals, and markets, while ensuring passage for pedestrians and bikes.

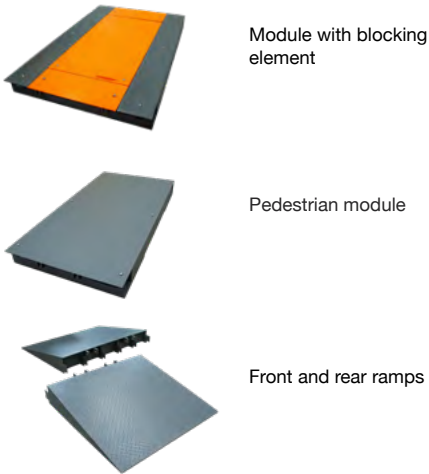
- The mobile door allows **access for emergency vehicles**
- **Fast installation, no anchoring** to the ground required
- **Modular structure adaptable** to different spatial needs and configurations
- **Optimized for fast transport**, can be positioned using a forklift
- **Certified resistance** to truck impacts **at 50 km/h**.



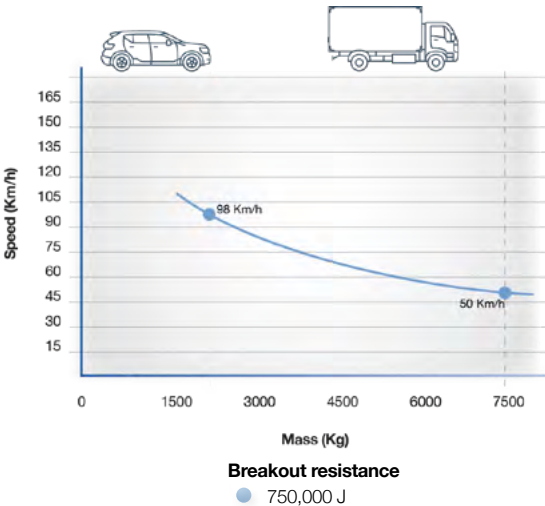
Smart! **Space-saving** in warehouse and easy to transport thanks to **the dedicated pallet!**



RESTYLING



ROAD BLOCKER MOBILE	
796	Height with blocking element in extended position (mm)
600	Retractable blocking element width (mm)
800 x 2890 x h 118mm - 302Kg	Pedestrian module dimension (mm)
1000 x 2890 x h 118mm - 480Kg	Module wit blocking element dimension (mm)
Manual	Operation
750.000 J	Breakout resistance
DIN SPEC 91414 (MK2), IWA 14-1, (M30/K4), ISO 22343	Certified to





RBS
SERIES



TRIPLE CERTIFICATION
PAS68, IWA14, ASTM

Surface-mounted Road Blocker

Road Blocker with integrated hydraulic unit

Reliable protection without excavation

The **RBS500** and **RBS1000** surface-mounted Road Blockers offer effective protection with **fast, non-invasive installation**—ideal for environments where the presence of underground utilities makes excavation difficult. Both models feature a **compact design** with integrated components, ensuring reliability for **intensive-use**.

- Available in three widths: **3.5 m, 4.5 m, and 5.5 m**
- Ideal for **high-frequency use** applications
- **No excavation needed** thanks to surface anchoring with chemical anchors
- **RBS500** is certified to stop **vehicles up to 3.2 t**
- **RBS1000** is certified to stop **7.5 t trucks at 50 km/h**.

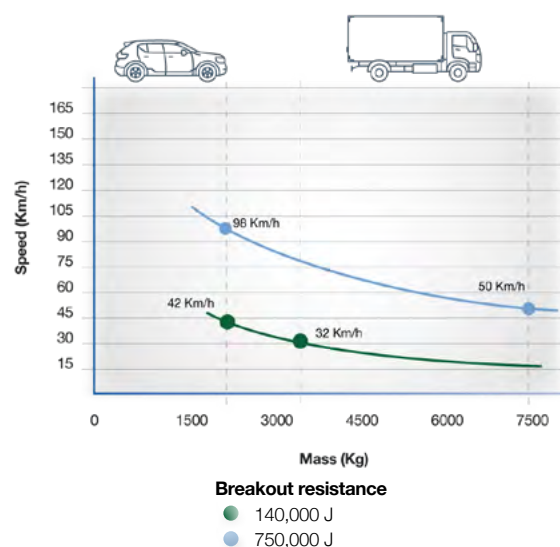
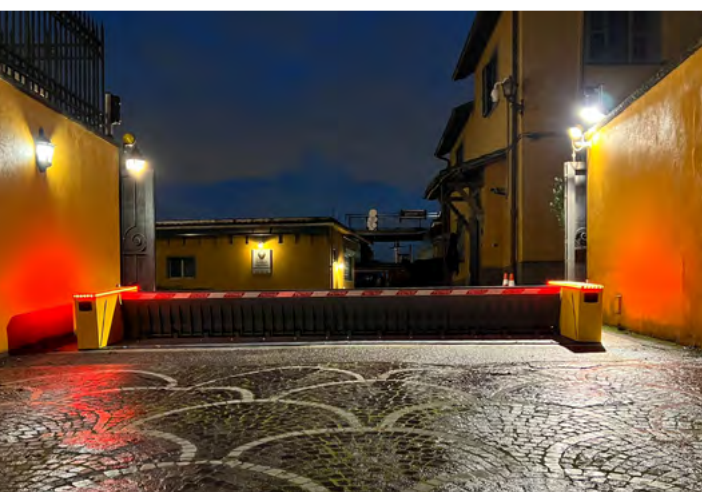


Smart! **RBS1000:** Available in **semiautomatic version** and **hold-to-run control**.

RBS500 SURFACE

	RBS500 SURFACE	RBS1000 SURFACE
Height (mm)	500	1000
Platform width (m)	3,5 - 4,5 - 5,5	3,5 - 4,5 - 5,5
Rising time	5,5s	7s
Lowering time	7s	7s
Breakout resistance	140.000 J	750.000 J
Certified to	PAS68, IWA 14-1	PAS68, IWA 14-1, ASTM M30 (K4)

RBS1000 SURFACE



Road Blocker with shallow foundation

Road Blocker with external hydraulic unit

RB
SERIES



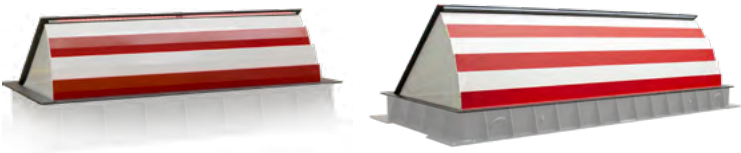
Anti-terrorism solutions for sensitive areas

Road Blockers are designed to prevent unauthorised vehicle access by means of a **high-strength security barrier**. The **RB500** and **RB1000 Series** combine high stopping performance with a **reduced installation depth**.

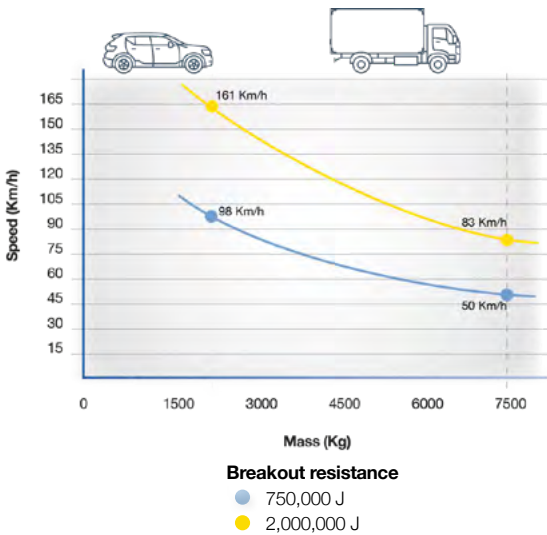
- **Shallow mount:** requiring **only 500 mm excavation**
- Hydraulic system: reliable technology for **intensive use**
- Available in widths from **2 to 6 meters**
- Load class **D400** (**E600** available for **RB1000** only)
- Optional **biodegradable oil** for the hydraulic unit
- **Maximum protection:** RB1000 certified **PAS68 at 80 km/h**.



Smart! Semi-automatic version also available:
ideal for installations in absence of electrical power or low-frequency access points.



RB500	RB1000	
500	1000	Height (mm)
2 - 3 - 4 - 5 - 6	2 - 3 - 4 - 5 - 6	Width (m)
500	500	Foundation depth (mm)
4,5s	7s	Rising time
4,5s	7s	Lowering time
750.000 J	2.000.000 J	Breakout resistance
-	PAS68	Certified to
PAS68, IWA 14-1, ASTM M30 (K4)	IWA 14-1, ASTM M50 (K12)	In compliance with





B
SERIES

Automatic barrier with integrated hydraulic unit

Anti-terrorism barrier for sensitive areas

Security, strength, and technology for intensive use

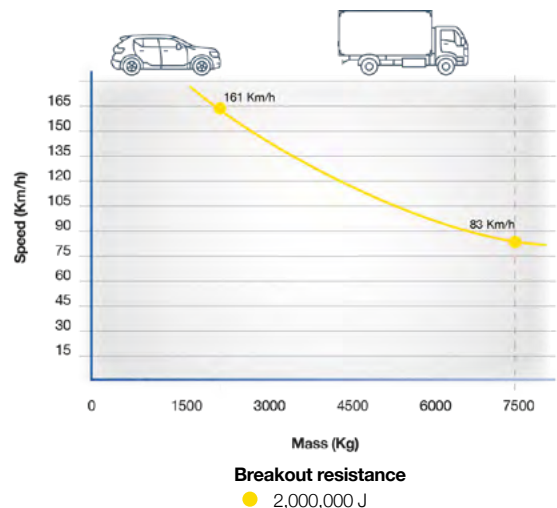
Barrier is designed in accordance with **PAS68, IWA 14-1, and ASTM standards**, offering protection for access points **up to 6 meters wide** on both traffic ways. Its **hydraulic system with integrated PLC** ensures smooth movement, reduces maintenance, and allows precise, customized control.

- Designed to **stop truck impacts** at 80 km/h
- Features a **channel to recess the barrier arm** when lowered
- All components are integrated** in the side casings for greater security
- Equipped with **safety photocells** (anti-collision and anti-crushing)
- Available also with **EFO function, LED strip, and manual operation** mode.



Smart! Add a traffic light on the casings for **instant signaling and improved safety!**

BARRIER	
Height (mm)	1100
Width (m)	3 - 4 - 5 - 6
Rising time	7s
Lowering time	7s
Breakout resistance	2.000.000 J
In compliance with	PAS68, IWA 14-1, ASTM M50 (K12)



Tyre killer vehicle barriers

Mechanical and automatic Tyre Killers



Integrated solutions for sensitive areas

Tyre Killers stop unauthorized vehicles using high-strength **steel spikes** that damage tires. Available in both **automatic and mechanical versions**, they provide **maximum protection** for critical infrastructures and are **designed to integrate** with other access control systems.

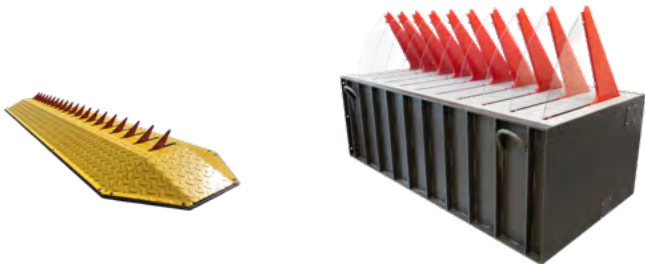
Tyre Killer Small:

- **Allows one-way** vehicle flow
- **Spikes can be locked** in the down position when needed

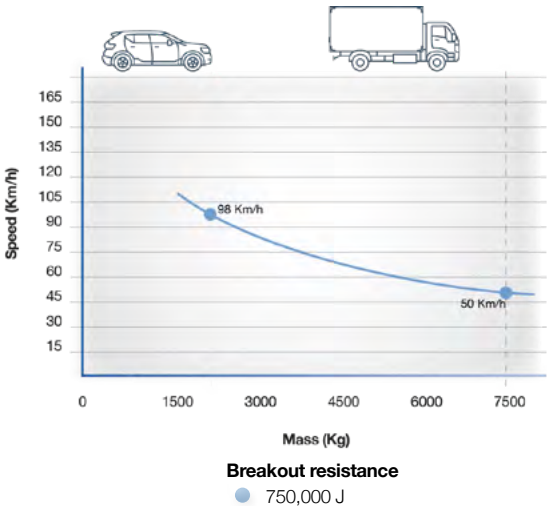
Tyre Killer Big:

- Hydraulic technology for **intensive and long-term use**
- Withstands **impacts up to 50 km/h** by 7.5-ton trucks.

Smart! Perfect for **integration with other access control systems**.



TKSMALL	TKBIG	
61	500	Spike height (mm)
2 - 3 - 4 - 5 - 6	2 - 3 - 4 - 5 - 6	Width (m)
105	200	Spike distance (mm)
-	4,5s	Rising time
-	4,5s	Lowering time
-	750.000 J	Breakout resistance
-	M30 (K4)	In compliance with



Accessories for access control systems



Pilomat offers **control and safety accessories** for every installed system: from push buttons, selectors, and remote controls, to photocells, flashing lights, traffic lights, and acoustic sensors for emergency vehicles. Each device is designed to **ensure maximum efficiency, clear signaling, and intuitive operation.**

Multifunction columns

- **Single and double-sided** columns
- In painted **steel** or **stainless steel**
- **Seamless integration** of traffic lights and control devices.

Smart! Suitable for housing the **control unit**: everything in one place, organized, practical, elegant!



200x300mm

h 2000 mm



Ø 170mm

h 1500/1800mm



Ø 275mm

h 1500/1800mm

Control devices



Key switch



Card reader



Numeric key pad



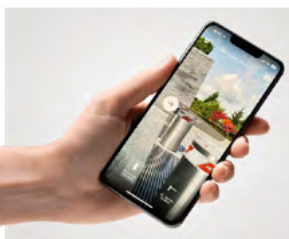
Finger scan



Hand transmitter



License plate reader



App or Bluetooth



Timer (week - year)



GSM activator



Cloud Unit W5-B



NEW!

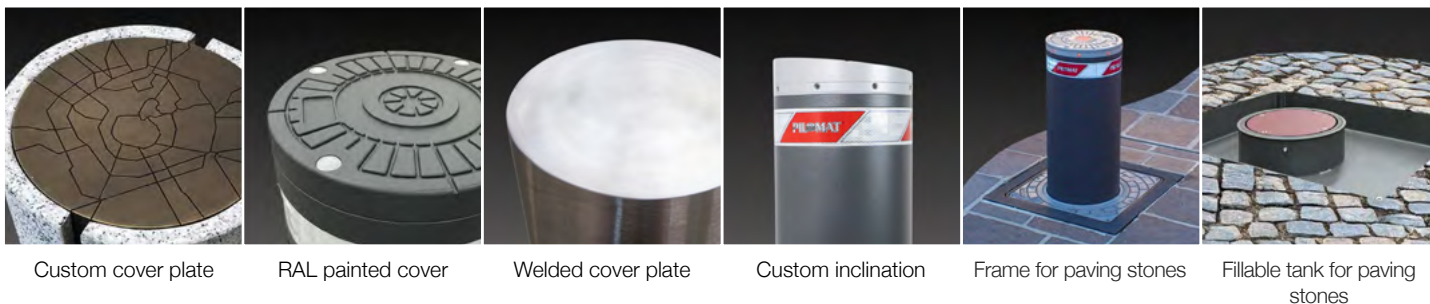
Bollard finishes



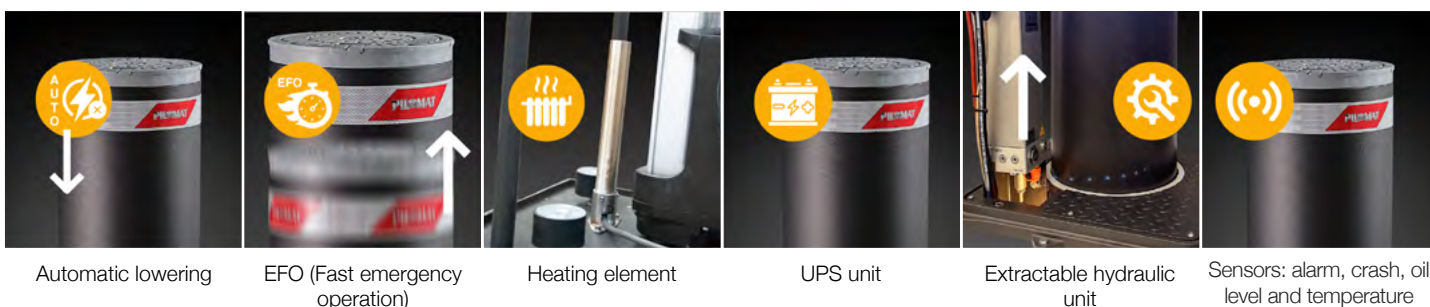
Safety and visibility



Special design



Functions



P-Connect, smart access control



Access control, wherever you are

With **P-Connect**, you can control **bollards and barriers remotely** via cloud or local network. The system enables activations, blocks, and **real-time monitoring**—optimizing response times and management. **Easy to integrate**, it reduces intervention times and improves operational security.

- Remote control via **app and browser**
- **Account activation** and real-time **monitoring**
- **Event log** and multi-user/multi-site management
- **Easy installation** and compatible with all Pilomat products
- **Reduced maintenance time** and management costs.



Ideal applications

Public Administration: Real-time monitoring of access to restricted traffic zones (LTZ), with specific management for residents and external users.

Companies and Offices: Effective perimeter control with user-level access management, ensuring security and traceability.

Logistics and Transportation: Efficient vehicle management through license plate recognition and remote access control.

Healthcare Facilities: Access control for reserved areas such as emergency departments and supply zones, improving internal security.

Hospitality Sector: Differentiated access levels for staff and guests, limited to the stay period—enhancing security and operational efficiency.

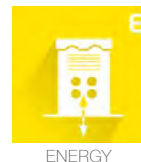
WATCH



THE VIDEO

Supply stations

Semiautomatic stations for power supply and utility



Power where and when it's needed—safely

Designed to provide **electrical power and complementary utilities**, the Energy and London stations feature semi-automatic movement: they rise using a key that unlocks the integrated handle. **Perfect for urban spaces**, campsites, marinas, and shopping centers, they combine discreet integration with full functionality.



ELECTRICITY



WATER



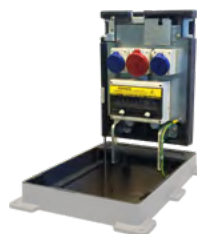
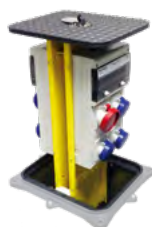
COMPRESSED AIR



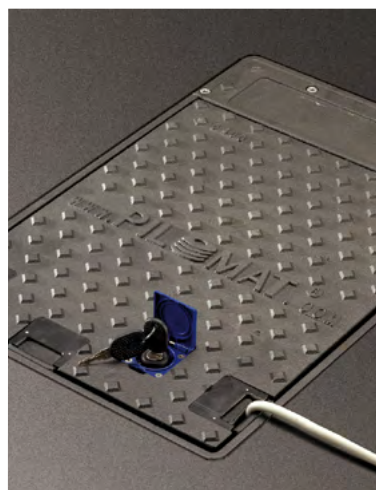
PHONE

- **Retractable design** for maximum order and safety
- **For both driving and pedestrian zones** (load classes C250 and D400)
- **Fillable cover** for perfect integration with surrounding paving
- Custom solutions: **electrical outlets, water, data, compressed air.**

Smart! Choose **London** model —it provides services **even while closed!**



B3020 60	B4030 60	B4040 55	LONDON 6040	LONDON 8050	
300 x 200	400 x 300	400 x 400	700 x 480	820 x 520	Dimension (mm)
600	600	550	535	675	Height (mm)
IP66	IP66	IP66 / IP67	IP66	IP66 / IP67	Protection class
✓	✓	✓	✓	✓	Electrical sockets
-	-	✓	✓	✓	Water / compressed air
-	-	✓	✓	✓	Telephone / Internet
C250	C250	D400	D400	D400	Load class





Automatic chain barrier

Chain series

The automatic chain for wide entrances

Chain is an automatic barrier system designed for **openings up to 20 meters**. During opening, the chain lowers completely, allowing full vehicle access. The compact side column houses the motor, **ensuring a clean and integrated access**.

- **Versatile system** for both large and small entrances
- **Quick and simple installation** with minimal masonry work
- Equipped with **hand transmitter** for remote control
- **All components are integrated in the side columns**, ensuring a clean and organized design.



Smart! Ask for the **underground channel** for a fully concealed and tidy system.

CHAIN	
Maximum chain length - 5mm links (m)	20
Column dimension (mm)	218 x 178 x 1010
Chain height from ground (mm)	4m: 750 - 10m: 600 - 20m: 350
Opening time	10s
Closing time	10s



Automatic parking barrier

Park Series



Your parking space, protected with a click

Pilomat Park is a **compact automatic** parking barrier, anchored to the ground with bolts. It is easily operated via a **dedicated remote control** and rises **in just 3 seconds**, protecting your space from unauthorized access. Equipped with an **anti-tampering alarm**.



- **Surface installation**, no masonry work required
- **Ideal for reserved parking** in apartment buildings or commercial premises
- **Fast movement**: opens and closes in just 3 seconds
- **Built-in alarm** in case of tampering.

Smart! Your space is always protected. No stress.
No hassle. Just control.



PARK	
486	Barrier height from ground (mm)
680x460x90mm	Barrier dimension - open (mm)
340x486x90mm	Barrier dimension - closed (mm)
3s	Rising time
3s	Lowering time





Manual parking barriers

Parky Series

Reserve your parking space easily

Pilomat Parky barriers are manual, **fold-down parking protectors** designed to prevent unauthorized occupation of private spaces.

Made of galvanized steel, they are easy to install and available in a variety of shapes and sizes to suit every need.

- **Various models** to meet every requirement
- Rounded shapes for a **refined and safe design**
- **Simple bolt-down installation** on any type of surface
- **Secure closure** with padlock or integrated lock.



AR50



AR600



AR100



AR700

465	790	730	60	Width (mm)
490	500	500	900	Height (mm)



ARB580



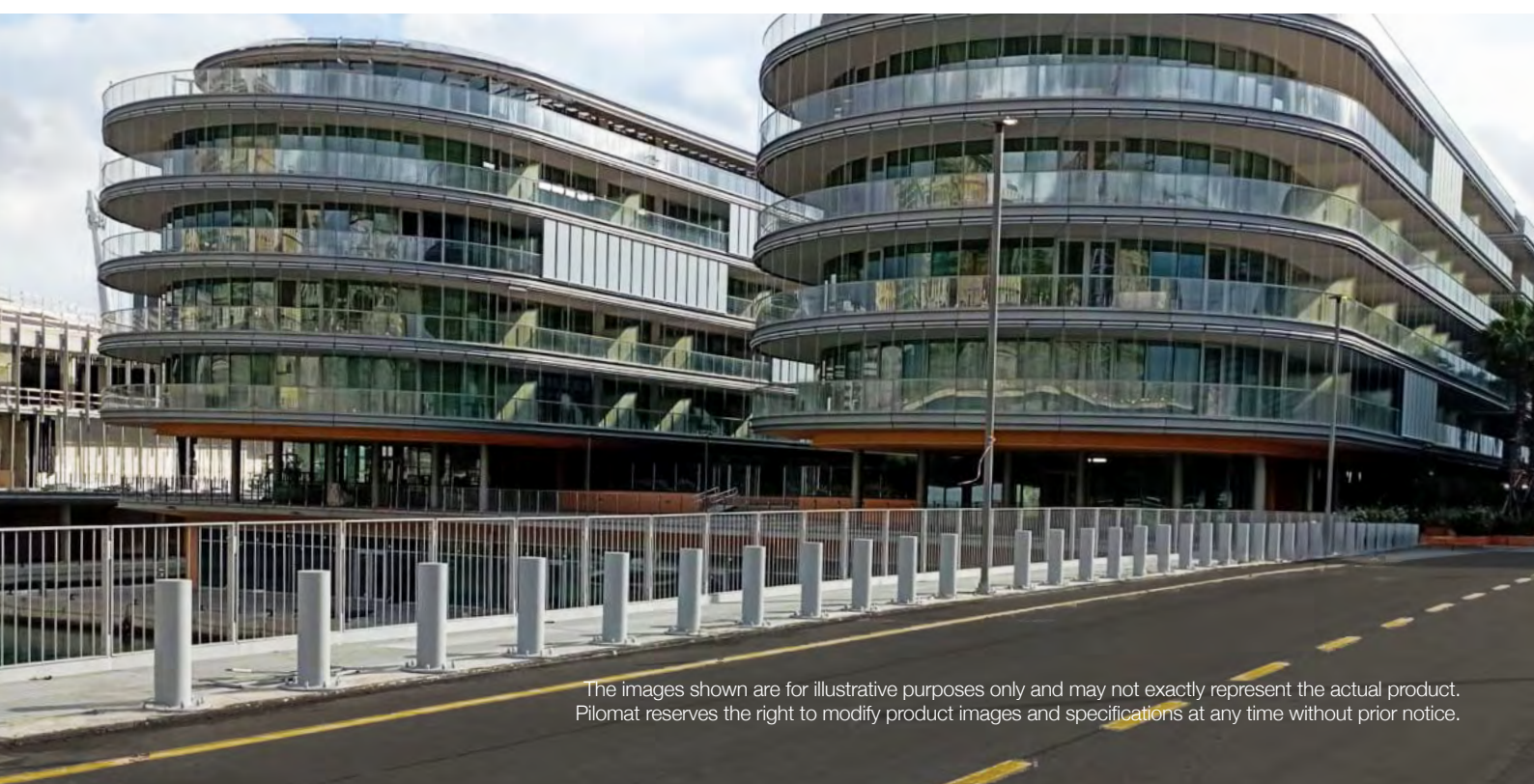
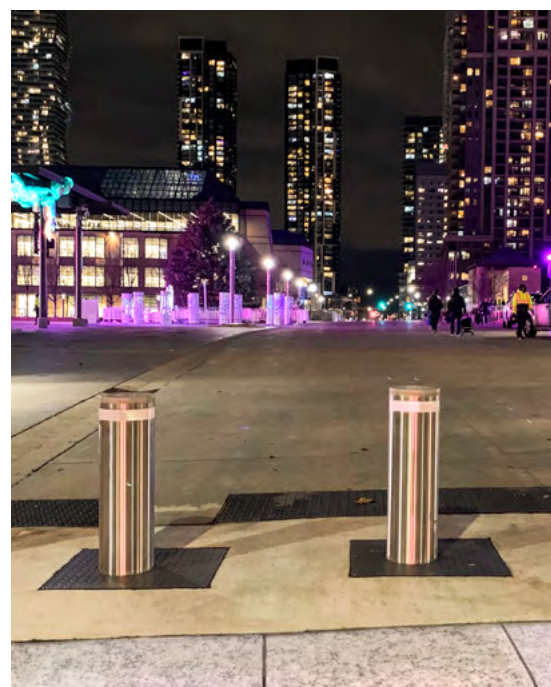
AR580



AR200

1090 x 990	860	750	Width (mm)
465	465	465	Height (mm)





The images shown are for illustrative purposes only and may not exactly represent the actual product. Pilomat reserves the right to modify product images and specifications at any time without prior notice.

Pilomat Product Guide^{.26}

We keep people safe

www.pilomat.com

rev. 09/2026

Pilomat Product Guide



PILOMAT
HÖRMANN