

**K/M**  
SERIES



# 275/K12-900A 275/M50-1200A

Automatic bollards with integrated hydraulic unit



TRIPLE CERTIFICATION  
**PAS68, IWA14, ASTM**



Reg. EPDITALY0412  
Valid. 25.05.2028  
[www.epditaly.it](http://www.epditaly.it)

## Our best-sellers of all time

Pilomat High Security hydraulic automatic bollards deliver **high performance, long life, and resistance to intensive cycles**, making them ideal for critical infrastructures, airports, government sites, and sensitive areas.

The hydraulic unit is **developed in-house** by our expert team, ensuring maximum quality and optimal performance.

- **Reliable performance in intensive cycles** – ideal for high-traffic areas
- **Optional biodegradable oil** for greater environmental care
- **Extreme protection: up to 2,000,000 J** breakout resistance
- **Certified to PAS68, IWA 14-1, ASTM** international standards
- They withstands **(K12/M50 level) impacts** with a truck at 80 km/h
- **The only EPD-certified bollards in the world:** security and sustainability.

**Smart!** Faster maintenance with **external hydraulic unit for systems with up to 3 bollards**



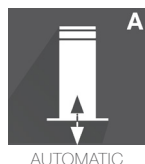
## Standard configuration

The standard configuration of our systems is designed to ensure efficiency, safety and ease of management. The configuration includes:

- **Anthracite grey painted steel bollard**, a device for controlling vehicle access
- **Foundation box**, an underground structure housing the bollard
- **Control unit**, manages the operation of the bollard.

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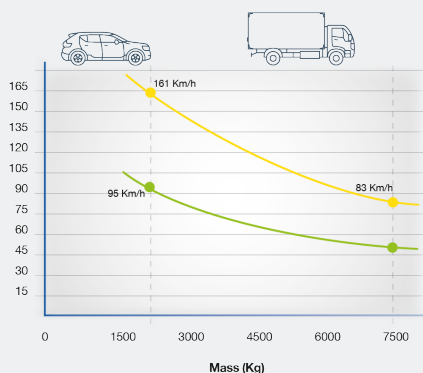
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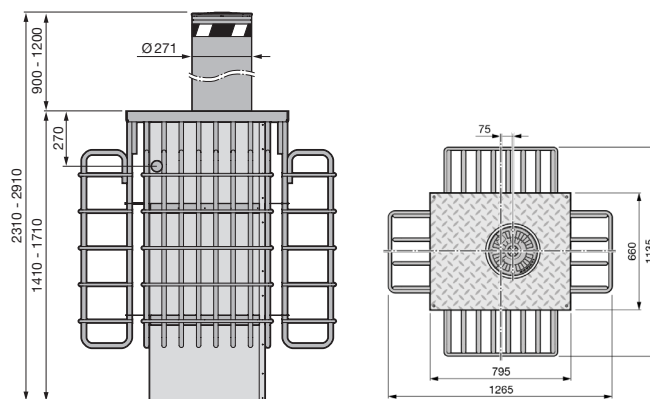
# 275/K12-900A 275/M50-1200A

Automatic bollards with integrated hydraulic unit

	275/K12-900A	275/M50-1200A
Cylinder material	S355JR normal steel - X5CrNi 18-10 (AISI 304) - X5CrNiMo 17-12-2 (AISI 316) stainless steel	
Cylinder diameter	271mm	
Cylinder height	900mm	1200mm
Cylinder thickness	23mm	
Movement principle	Hydraulic	
Cylinder normal steel finish	Anti-corrosion treatment - grey anthracite standard painting	
Cylinder stainless steel finish	Grey anthracite standard painting or brushing	
Reflecting adhesive strip	Standard - height 55mm	
Rising time	4s	5,5s
EFO rising time	1,5s	
Lowering time	4s	4s
Emergency lowering	Standard	
Connection line to control unit	Standard 10m (max 80m - with heating element max 50m)	
Voltage for control unit	230/400 VAC (+/- 10%) 50/60Hz	
Hydraulic pump	Built-in the bollard	
Protection class	IP 67	
Type of use	2000 Cycles/day	
Life units	3.000.000 Cycles	
Impact resistance	700.000J	
Breakout resistance	2.000.000J	
Certified to	PAS68, IWA 14-1, ASTM M50 (K12)	
Nominal operating temperature	-40°C +70°C (for low temperatures see heating resistance)	
Load class (EN124)	D400	

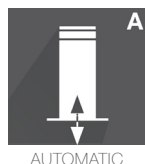


**Impact resistance** ● 700,000 J  
**Breakout resistance** ● 2,000,000 J



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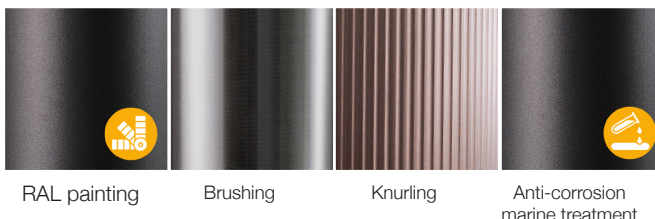


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Pilomat offers **safety accessories** for every installed system: including photocells, flashing lights and acoustic sensors for emergency vehicles. Each device is designed to **ensure maximum efficiency, clear signaling and secure control.**

### Available finishes



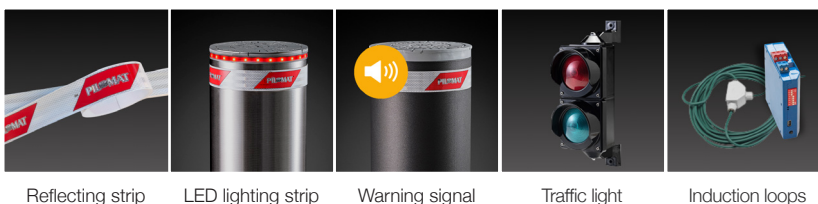
RAL painting

Brushing

Knurling

Anti-corrosion  
marine treatment

### Safety and visibility



Reflecting strip

LED lighting strip

Warning signal

Traffic light

Induction loops

### Special design



Custom cover  
plate

RAL painted  
cover

Custom  
inclination

Fillable tank for  
paving stones

### Functions



Automatic  
lowering

EFO (Fast  
emergency  
operation)

Heating element

UPS unit

External  
hydraulic unit

Sensors: alarm,  
crash

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PROTECTION



PUBLIC



COMMERCIAL

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Pilomat provide a complete range of **control devices**, designed to make the use of installed systems practical and immediate. Buttons, selector and remote controls allow users to operate the devices with a single gesture, **ensuring immediate, reliable control and intuitive management.**

## Control devices



Key switch



Card reader



Numeric key pad



Finger scan



Hand transmitter



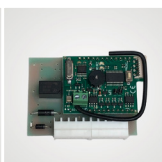
License plate reader



App or Bluetooth



Timer  
(week - year)



GSM activator



P-Connect



Cloud Unit W5-B



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