

EMB
SERIES



PROTECTION



PUBLIC



COMMERCIAL

275/K4EMB-900A 275/M30EMB-1200A

Automatic bollards with integrated brushless drive



TRIPLE CERTIFICATION
PAS68, IWA14, ASTM

Security, sustainability, and certified performance

Pilomat **High Security** bollards offer **maximum protection** against vehicle attacks, thanks to brushless electromechanical technology, which ensures **high performance, lower consumption, and reduced maintenance**.

- **Brushless motor:** constant performance and maximum efficiency
- **Extreme resistance:** up to **1,200,000 J** of absorbed impact energy
- Certified to international standards: **PAS68, IWA 14-1, ASTM**
- They withstands **K4/M30 level** impacts, with a **truck 7,500 kg at 50 km/h**
- **EFO option:** ultra-fast rising for emergency situations.

Unique! TÜV Rheinland verified durability test
1,500,000 non-stop cycles without damage!
= 6,000 cycles/day – 270 cycles/hour



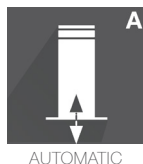
Standard configuration

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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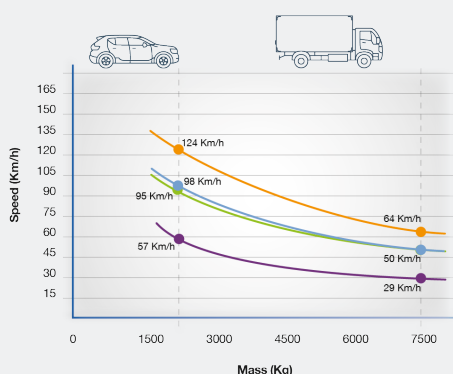
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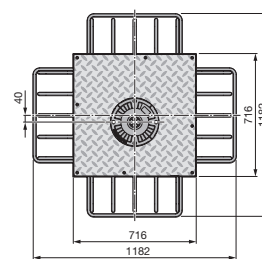
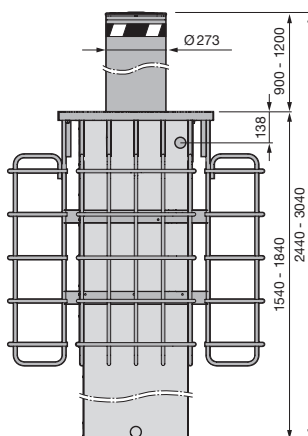
	275/K4EMB-900A	275/M30EMB-1200A
Cylinder material	S355JR normal steel - X5CrNi 18-10 (AISI 304) - X5CrNiMo 17-12-2 (AISI 316) stainless steel	
Cylinder diameter	273mm	
Cylinder height	900mm	1200mm
Cylinder thickness	10mm	16mm
Movement principle	Electromechanical r	
Cylinder normal steel finish	Anti-corrosion 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	2s	2,5s
Lowering time	4s	5,5s
Emergency lowering	Standard	
Safety reversal	Standard	
Connection line to control unit	Standard 10m (max 50m)	
Voltage for control unit	230/400 VAC (+/- 10%) 50/60Hz	
Brushless motor	Built-in the bollard	
Protection class	IP 68	
Type of use	2000 Cycles/day	
Life units	3.000.000 Cycles	
Impact resistance	250.000 J	700.000 J
Breakout resistance	750.000 J	1.200.000J
Certified to	PAS68, IWA 14-1, ASTM M30 (K4)	
In compliance with	-	ASTM M40 (K8)
Nominal operating temperature	-40°C +70°C (for low temperatures see heating resistance)	
Load class (EN124)	D400	



Impact resistance **Breakout resistance**

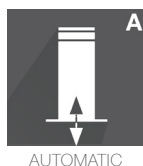
● 250,000 J ● 750,000 J

● 700,000 J ● 1,200,000 J



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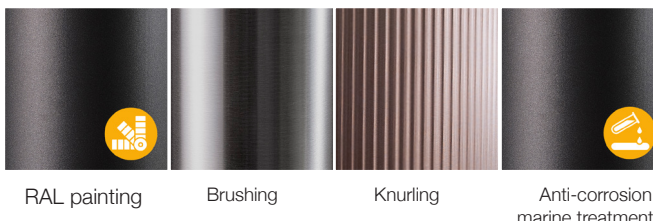
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Automatic bollards with integrated brushless drive

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



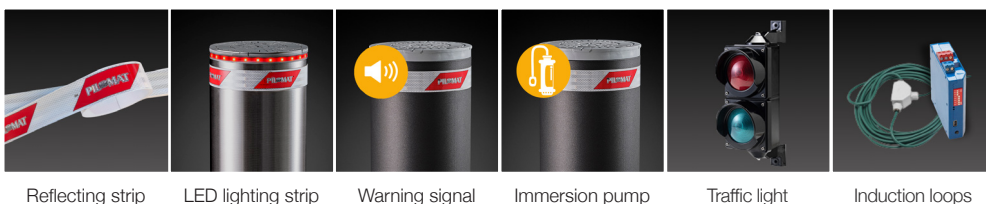
RAL painting

Brushing

Knurling

Anti-corrosion
marine treatment

Safety and visibility



Reflecting strip

LED lighting strip

Warning signal

Immersion pump

Traffic light

Induction loops

Special design



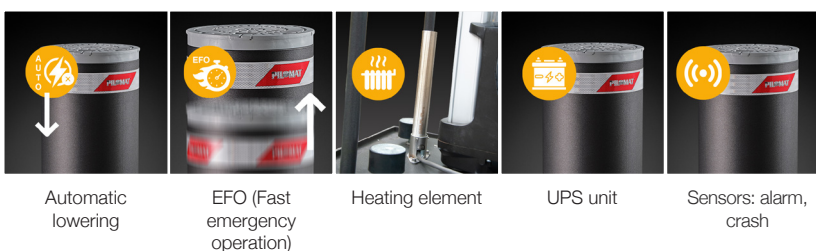
Custom cover
plate

RAL painted
cover

Custom
inclination

Fillable tank for
paving stones

Functions



Automatic
lowering

EFO (Fast
emergency
operation)

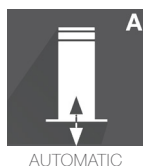
Heating element

UPS unit

Sensors: alarm,
crash

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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



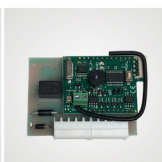
License plate reader



App or Bluetooth



Timer
(week - year)



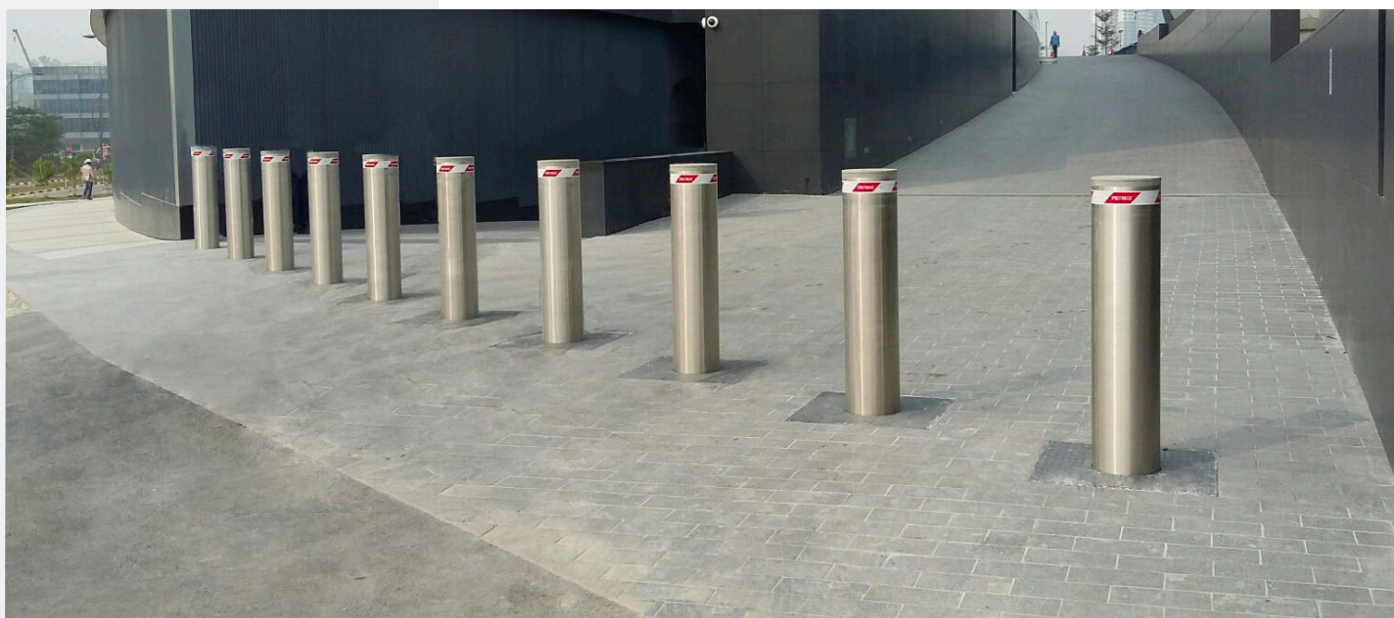
GSM activator



P-Connect



Cloud Unit W5-B



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