

**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



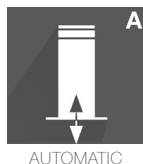
## Standard configuration

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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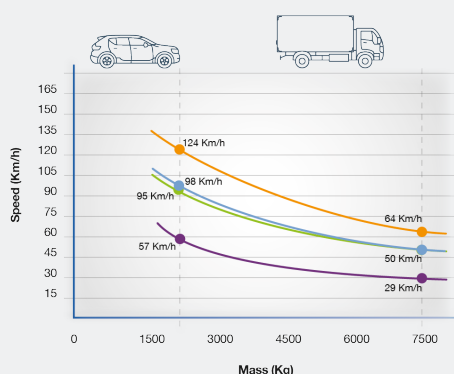


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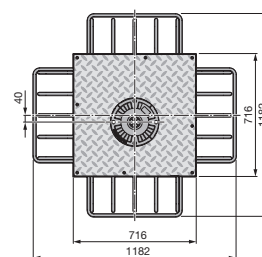
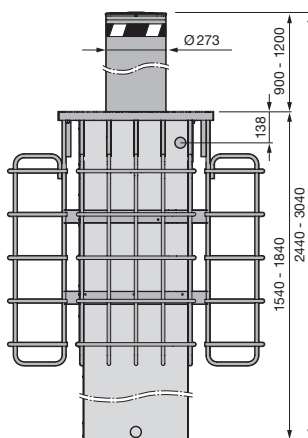
Automatic bollards with integrated brushless drive

|                                 | 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                                                                                        |                  |



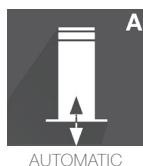
**Impact resistance**  
 ● 250,000 J  
 ● 700,000 J

**Breakout resistance**  
 ● 750,000 J  
 ● 1,200,000 J



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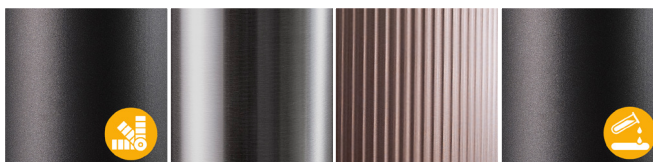
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Pilomat offers **safety accessories** for every installed system: including photocells, flashing lights and acoustic sensors for emergency vehicles. Each device is designed to **ensure maximum efficiency, clear signaling and secure control.**

### Available finishes



RAL painting

Brushing

Knurling

Anti-corrosion  
marine treatment

### Safety and visibility



Reflecting strip

LED lighting strip

Warning signal

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

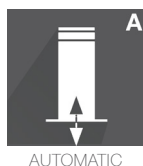
Sensors: alarm,  
crash

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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



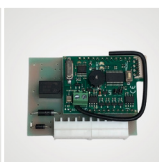
License plate reader



App or Bluetooth



Timer  
(week - year)



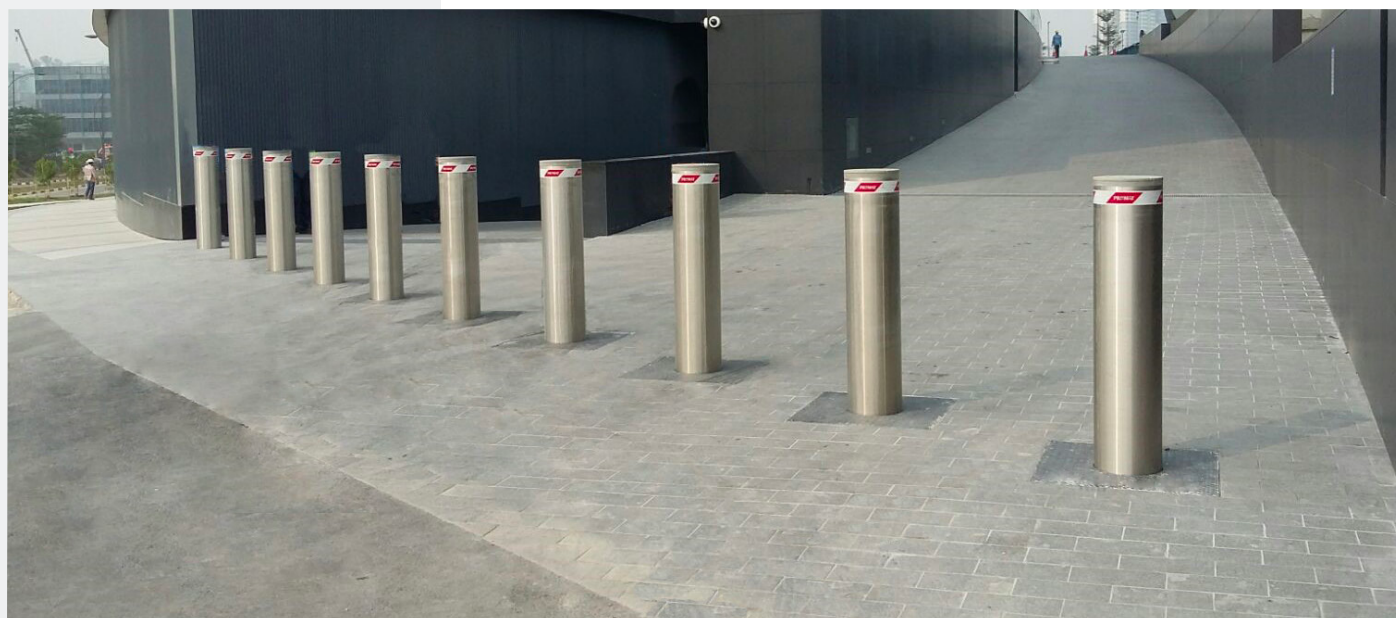
GSM activator



P-Connect



Cloud Unit W5-B



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