



K/M
SERIES



275/K12-900SA 275/M50-1200SA

Semi-automatic bollards with integrated hydraulic unit



TRIPLE CERTIFICATION
PAS68, IWA14, ASTM

High security with no compromises

The High Security semi-automatic bollards are the ideal solution for installations with **infrequent passage**, offering certified protection **without electrical supply**. The rising is performed by means of a drill, while lowering is controlled by a manual valve. **Certified to PAS68, IWA 14-1, and ASTM**, they withstands (K12/M50 level) impacts with a truck at 80 km/h.

- **Certified according to PAS68, IWA 14-1, ASTM** international standards
- Ideal for **low-frequency access points**
- **Manual** rising and lowering
- **No electrical power required (only with LED)**
- **Faster installation** and maintenance.

Smart! Inclined road? Request a **customized inclination** to ensure perfect integration with the pavement!



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

PILOMAT
HÖRMANN

Pilomat S.r.l.
Via Zanica 17/P, Grassobbio (BG) Italia
pilomat@pilomat.com www.pilomat.com



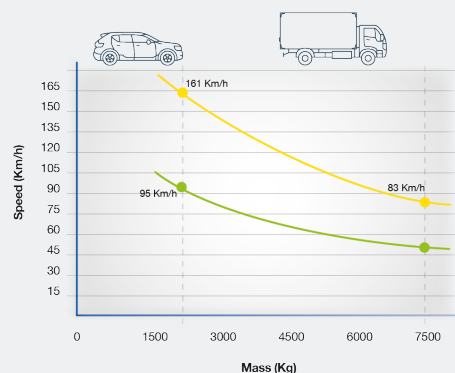
K/M
SERIES



275/K12-900SA 275/M50-1200SA

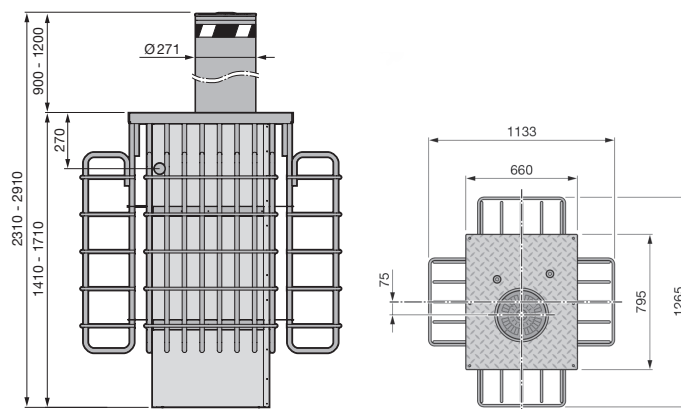
Semi-automatic bollards with integrated hydraulic unit

	275/K12-900SA	275/M50-1200SA
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	Rising: with a cordless screwdriver - Lowering: manual opening of the hydraulic valve A commercially available cordless screwdriver with a power of at least 31 Nm / 5.0 Ah is suitable	
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	11s	15s
Lowering time	4,5s	6s
Emergency lowering	Standard	
Safety reversal	Standard	
Connection line for LED lighting strips/ heating element (optional)	Standard 10m (max 80m - with heating element max 50m)	
Hydraulic pump	Built-in the bollard	
Protection class	IP 67	
Impact resistance	700.000 J	
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



PILOMAT
HÖRMANN

Pilomat S.r.l.
Via Zanica 17/P, Grassobbio (BG) Italia
pilomat@pilomat.com www.pilomat.com



K/M
SERIES



Pilomat offers **safety accessories** for every installed system: reflecting strip, LED lighting strip. Each device is designed to **ensure maximum efficiency, clear signaling and secure control.**

Available finishes



RAL painting



Brushing



Knurling



Anti-corrosion
marine treatment



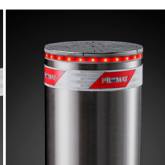
Heating element

Functions

Safety and visibility



Reflecting strip



LED lighting strip

Special design



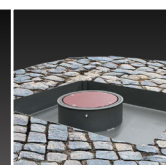
Custom cover
plate



RAL painted
cover



Custom
inclination



Fillable tank for
paving stones



PILOMAT
HÖRMANN

Pilomat S.r.l.
Via Zanica 17/P, Grassobbio (BG) Italia
pilomat@pilomat.com www.pilomat.com