



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

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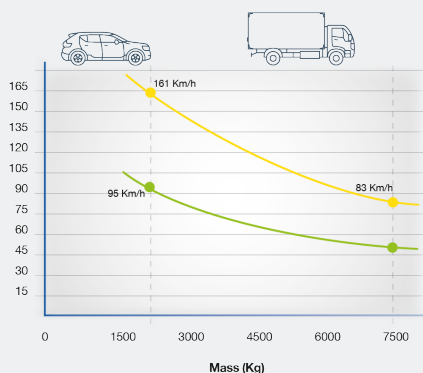
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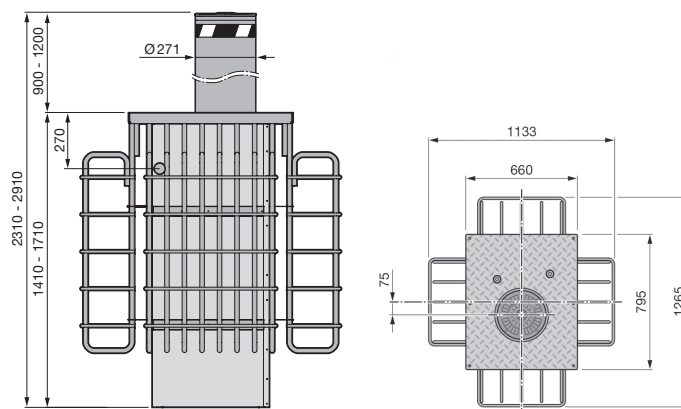
Semi-automatic bollards with integrated hydraulic unit

	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



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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



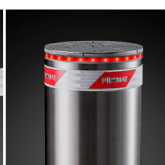
Heating element

Functions

Safety and visibility



Reflecting strip



LED lighting strip

Special design



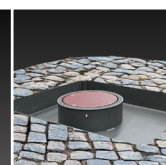
Custom cover
plate



RAL painted
cover



Custom
inclination



Fillable tank for
paving stones



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