

# Semi-automatic bollards SA

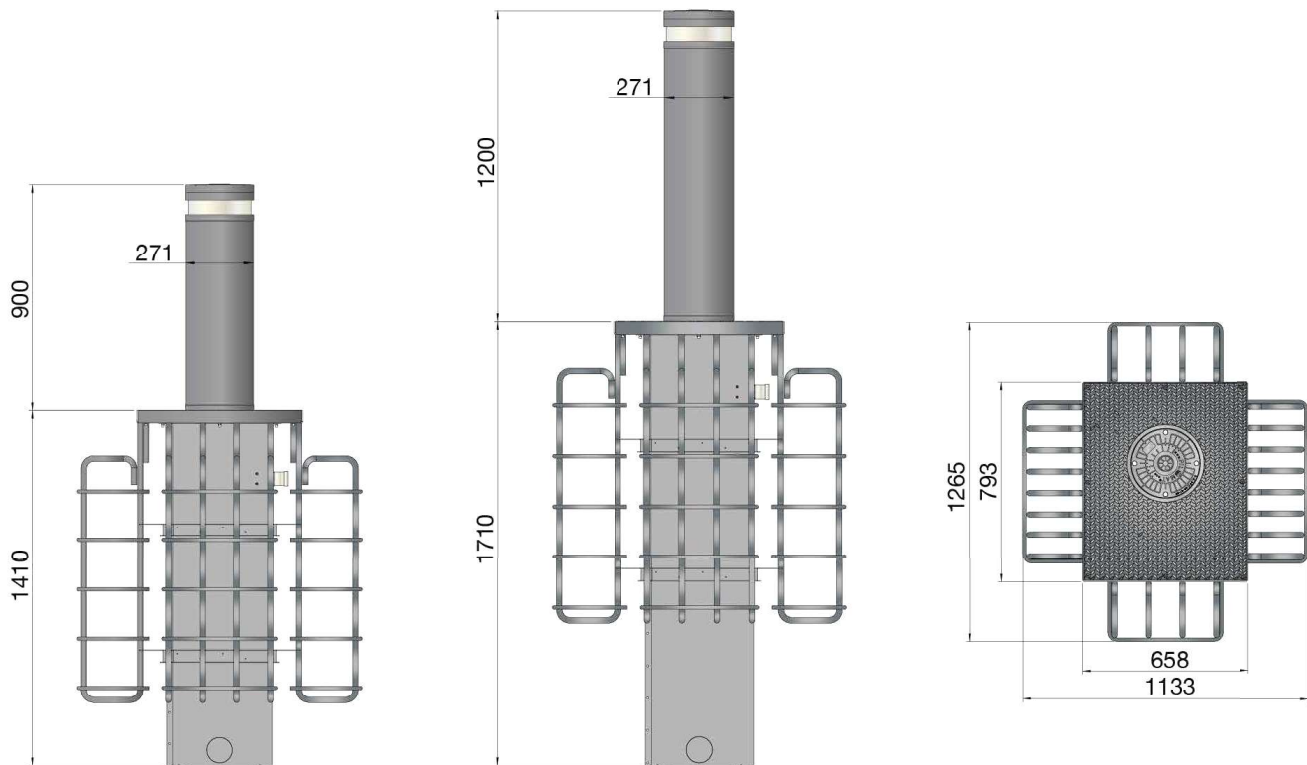
with integrated hydraulic pump

SA275/K12-900 / SA275/M50-1200



Product description		
Semi-Automatic Bollards (SA)	SA275/K12-900	SA275/M50-1200
Height	900 mm	1200 mm
Diameter	271 mm	271 mm
Material thickness	23 mm	23 mm
Material	Steel S355JR Stainless steel (AISI 304)/(AISI 316)	
Surface treatment	Steel version: anti-corrosion treatment - standard painting* Stainless steel version: standard painting* or brushed	
Movable cylinder	Reflecting strips (height 55 mm) Yes	
Lifting and lowering actuation	Turning movement with a cordless screwdriver (adapter for lifting/lowering using a cordless screwdriver included in the scope of delivery) A commercially available cordless screwdriver with a power of at least 31 Nm / 5.0 Ah is suitable.	
Lifting speed	8 cm/s	8 cm/s
Lowering speed	20 cm/s	20 cm/s
Impact energy without destruction - impact resistance	700,000 J	700,000 J
Impact energy with destruction - breakout resistance	2,000,000 J	2,000,000 J
Connecting lead for LED lighting strips (optional)	Standard 10 m (max. 80 m)	
Connecting lead for heating element (optional)	Standard 10 m (max. 50 m)	
Temperature range	From -40°C to +70°C (for low temperatures, see heating element)	
Certified acc. to	PAS68, IWA14-1, ASTM M50 (K12)	PAS68, IWA14-1, ASTM M50 (K12)
Load rating acc. to EN 124	D400 Regulation	

\* For orders with no surcharge in RAL to choose, the standard colour is Anthracite grey.



# Semi-automatic bollards SA

with integrated hydraulic pump

SA275/K12-900 / SA275/M50-1200



A275/K12-900 / SA275/M50-1200 with integrated hydraulic pump		SA275/K12-900	SA275/M50-1200
		Article no.	Article no.
Semi-automatic bollard SA275/K12-900 / SA275/M50-1200	Steel painted	PL201092	PL201022
	Stainless steel painted	PL207092	PL207022
	Stainless steel brushed	PL213092	PL213022
Semi-automatic bollard SA275/K12-900 / SA275/M50-1200 + Lighting strips with 25 LEDs	Steel painted	PL201094	PL201024
	Stainless steel painted	PL207094	PL207024
	Stainless steel brushed	PL213094	PL213024
<b>Foundation box for semi-automatic bollards</b>			<b>Article no.</b>
Steel foundation box with aluminium zinc coating With counterframe and reinforcement rods	SA275/K12-900	PL151010	
	SA275/M50-1200	PL151012	
Surcharge for upper counterframe made of stainless steel AISI 304		AA101881	
Suspended foundation box kit for SA275/K12-M50 bollard – upper plate, frame cover and lower water-tight stainless steel foundation box (excluded chemical anchors)		AA107151	
<b>ATTENTION! The bollard assembled in the suspended pit foundation box is not crash-test certified</b>			
Metal cover cap for foundation box SA275/K12-M50 (with screws)		AA900851	
<b>Optional extras for semi-automatic bollards</b>			<b>Article no.</b>
Surcharge for painting the cylinder in RAL to choose		AA900871	
Surcharge for cylinder version in brushed stainless steel (AISI 316)	Cylinder 275-900	AA104131	
	Cylinder 275-1200	AA104161	
Protection against corrosion - marine treatment - for painted steel bollards (recommended for saline ambient conditions)	SA275/K12-900	AA107281	
	SA275/M50-1200	AA107311	
Protection against corrosion - marine treatment - for painted stainless steel bollards (recommended for saline ambient conditions)	SA275/K12-900	AA107291	
	SA275/M50-1200	AA107321	
Protection against corrosion - marine treatment - for brushed stainless steel bollards (recommended for saline ambient conditions)	SA275/K12-900	AA107301	
	SA275/M50-1200	AA107331	
Knurling on SA275/K12-M50 bollard with steel cylinder (difference)	Cylinder 275-900	AA101781	
	Cylinder 275-1200	AA101811	
Knurling on SA275/K12-M50 bollard with stainless steel cylinder (difference)	Cylinder 275-900	AA101831	
	Cylinder 275-1200	AA101821	
Biodegradable oil in the hydraulic pump		BB100821	
LED lighting strip power supply for semi-automatic / fixed bollards (max. 8)		AA107341	
LED lighting strips line extension (80 m max.), supplied in 5 m increments	Per m	AA107551	
Heating element incl. transformer and thermostat 150 W, connecting lead 10 m		AA100901	
Heating element line extension (50 m max.), supplied in 5 m increments	Per m	AA107811	
Housing for fitting to wall – required when heating element is ordered (State number of heating elements to be operated when placing the order)		AA106051	
Cylinder cover (head) and reflecting strip (no logo)	difference	AA108811	
Surcharge for stainless steel base plate (corrugated sheet) (AISI 304)	difference	AA101871	
Surcharge for stainless steel cylinder cover (AISI 304)		AA101911	
Surface customisation of the cylinder cover, e.g. with a city crest or a logo			
Additional screw insert for lifting / lowering the bollard using a cordless screwdriver		AA107791	
Cordless drill/driver 18V torque soft/hard/max 31/60/- Nm - 2 x 5.0 Ah li-ion battery - case		AA108331	
Additional security lock incl. 2 keys, profile half cylinder		AA107511	
Kit to modify the bollard SA275 K4/M30/K12/M50 for inclined road		AA108151	
Project inclination required (if not available)		AA108161	