

RACK-MAMMUT® BOLLARD



Il dissuasore antiurto è ideale per contrassegnare e mettere in sicurezza punti pericolosi all'interno e all'esterno. Il dissuasore può essere utilizzato in molti modi, come davanti a porte, tapparelle, quadri elettrici, pareti, passi carrai, angoli e luoghi dove è necessario proteggere i macchinari. Con il suo colore del segnale di avvertimento, incoraggia i conducenti a essere vigili.

PRODUCT SPECIFICATIONS		
Product features	High-performance durable special plastic absorbs any impact energy and returns to its original shape. Extremely low maintenance and repair cost savings on barriers, racking systems and industrial trucks.	
Material	Polyolefin, UV-resistant, fire class HB, non-conductive, impermeable to most chemical products	
Colour	yellow	
Base plate	Steel	INOX (RVS 304)
	black lacquered	No lacquer/coating
SIZE		
Height	600 mm / 900 mm / 1100 mm	
Ø	Ø 140 mm	
Base plate (WxLxH)	180 mm x 180 mm x 12 mm	

IMPACT TEST PARAMETERS & VALUES PER PAS 13:2017, Sec. 7.5		
Test conditions	Height:	600 mm
	Pendulum Mass (kg):	510 kg
	Pendulum Arm Length (m):	2,2 m
	Pendulum Angel (Radius°):	32°
	Pendulum Speed (m/s):	2,6 m/s
	Kinetic Energy 90° impact (Joule):	1550 J
Deflection (mm):	200 mm	
SPEED / KG SAMPLE CALCULATION		
Reference speed	5,0 km/h	For a vehicle with a gross weight of 1600 kg with an impact angle of 90°
Calculation:	$\frac{1}{2} \text{ Mass (kg) } \times \text{ Speed}^2 \text{ (m/s)} = \text{Joules}$ (Formula applies for an impact angle of 90°)	

FIXING	
Heavy-duty concrete anchor	L = 110 mm ; Ø = 12 mm ; M12 45 Nm max. tightening torque 19,7 kN min. pull-out force



TÜV
Produkt geprüft
No: 000109023
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Material	Polyolefin, UV-resistant, fire class HB, non-conductive, impermeable to most chemical products	
Colour	yellow	
Base plate	Steel black lacquered	INOX (RVS 304) No lacquer/coating
SIZE		
Height	600 mm / 900 mm / 1100 mm	
Ø	Ø 140 mm	
Base plate (WxLxH)	180 mm x 180 mm x 12 mm	

FIXING	
Heavy-duty concrete anchor	L = 110 mm ; Ø = 12 mm ; M12 45 Nm max. tightening torque 19,7 kN min. pull-out force

IMPACT TEST PARAMETERS & VALUES PER PAS 13:2017, Sec. 7.5		
Test conditions	Height: Pendulum Mass (kg): Pendulum Arm Length (m): Pendulum Angel (Radius°): Pendulum Speed (m/s): Kinetic Energy 90° impact (Joule): Deflection (mm):	900 mm 510 kg 2,2 m 39° 4,1 m/s 2300 J 175 mm

SPEED / KG SAMPLE CALCULATION		
Reference speed	5,0 km/h	For a vehicle with a gross weight of 23500 kg with an impact angle of 90°
Calculation:	$\frac{1}{2} \text{ Mass (kg) x Speed}^2 \text{ (m/s)} = \text{Joules}$ (Formula applies for an impact angle of 90°)	



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Product features	High-performance durable special plastic absorbs any impact energy and returns to its original shape. Extremely low maintenance and repair cost savings on barriers, racking systems and industrial trucks.	
Material	Polyolefin, UV-resistant, fire class HB, non-conductive, impermeable to most chemical products	
Colour	yellow	
Base plate	Steel	INOX (RVS 304)
	black lacquered	No lacquer/coating
SIZE		
Height	600 mm / 900 mm / 1100 mm	
Ø	Ø 140 mm	
Base plate (WxLxH)	180 mm x 180 mm x 12 mm	

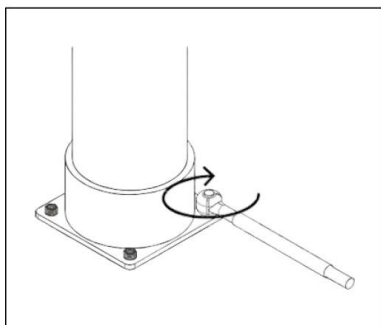
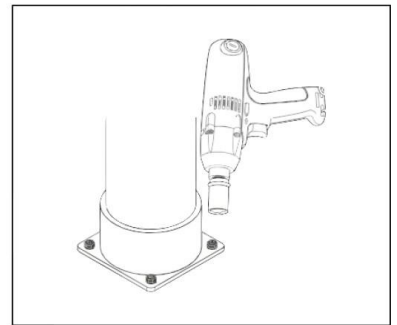
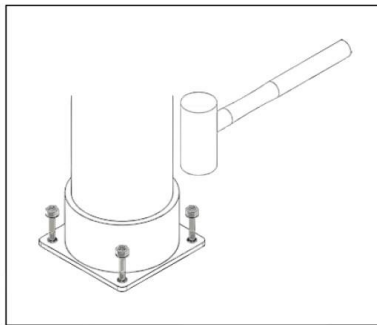
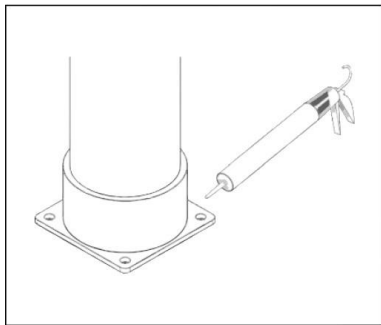
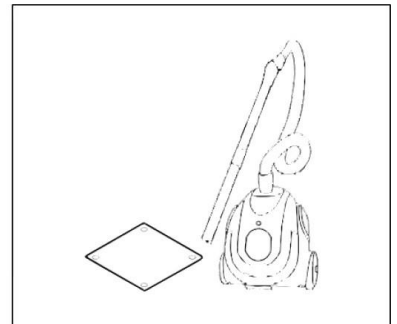
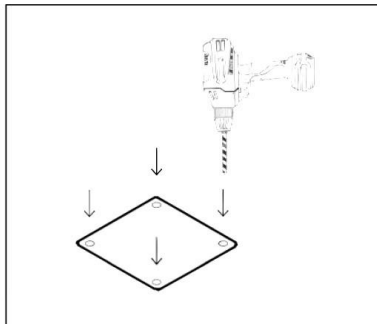
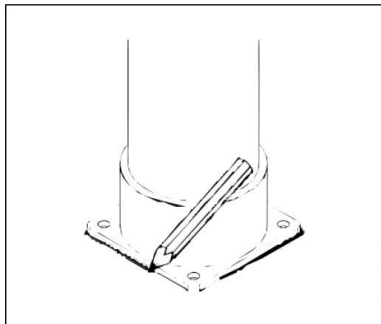
IMPACT TEST PARAMETERS & VALUES PER PAS 13:2017, Sec. 7.5		
Test conditions	Height:	1100 mm
	Pendulum Mass (kg):	886 kg
	Pendulum Arm Length (m):	2,2 m
	Pendulum Angel (Radius°):	33°
	Pendulum Speed (m/s):	3,1 m/s
	Kinetic Energy 90° impact (Joule):	2900 J
	Deflection (mm):	100 mm
SPEED / KG SAMPLE CALCULATION		
Reference speed	5,0 km/h	For a vehicle with a gross weight of 3000 kg with an impact angle of 90°
Calculation:	$\frac{1}{2} \text{ Mass (kg) x Speed}^2 \text{ (m/s)} = \text{Joules}$ (Formula applies for an impact angle of 90°)	

FIXING	
Heavy-duty concrete anchor	L = 110 mm ; Ø = 12 mm ; M12 45 Nm max. tightening torque 19,7 kN min. pull-out force



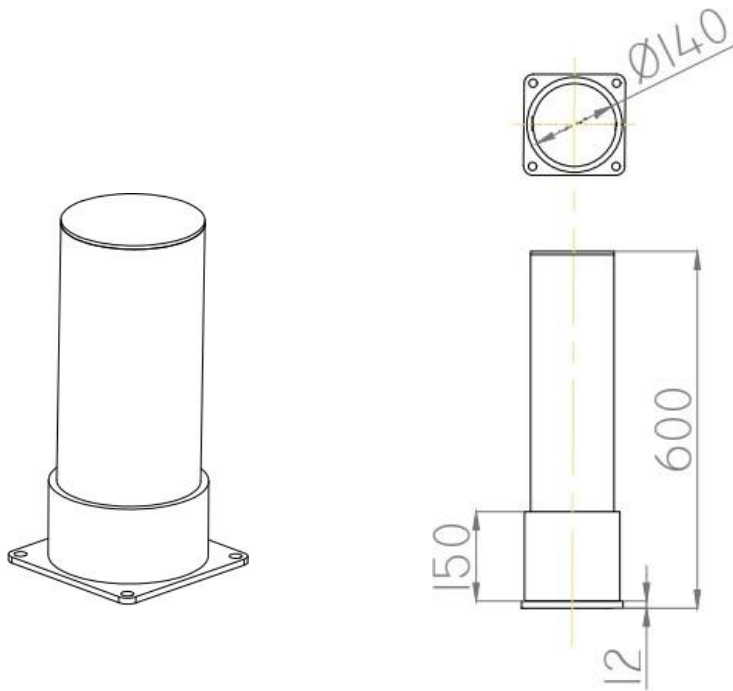
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ISTRUZIONI MONTAGGIO BOLLARD

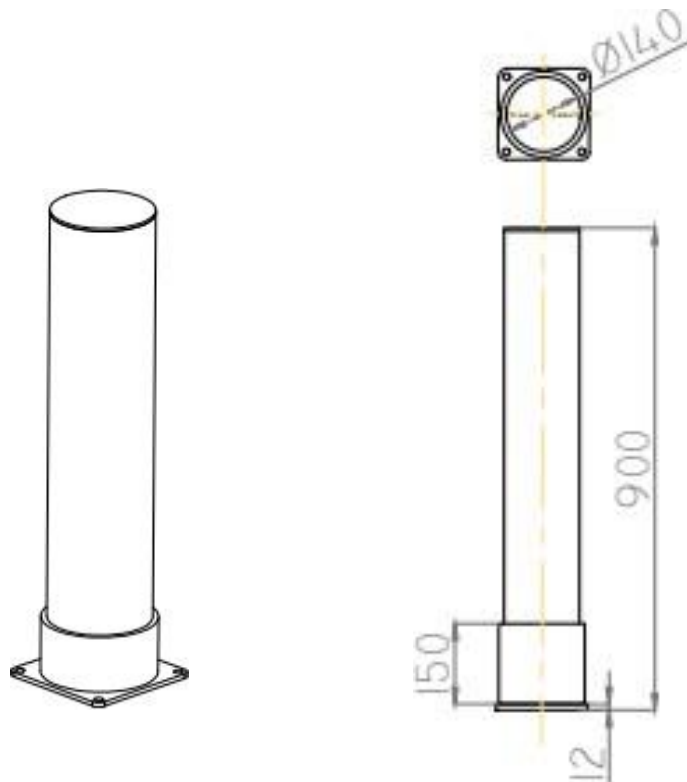


DISEGNO TECNICO BOLLARD

ESEMPIO ALTEZZA 600 MM



ESEMPIO ALTEZZA 900 MM



DISEGNO TECNICO BOLLARD

ESEMPIO ALTEZZA 1100 MM

