Rack-Mammut®
Bollard 1100 mm
Technical data sheet

The Bollard is ideal for marking and securing danger spots in indoor and outdoor areas. The bollard can be used in a variety of ways, such as in front of doors, roller shutter doors, control panels, walls, driveways, corners and places where machinery needs to be protected. Its warning signal colour encourages drivers to remain alert.

For medium-high traffic

PRODUCT SPECIFICATIONS

Product features	High-performance, durable special plastic absorbs any impact energy and returns to its original shape. It offers 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 / Black	
Base plate	Steel black lacquered	INOX (RVS 304) No lacquer/coating

IMPACT TEST PARAMETERS & VALUES
PER PAS 13:2017, Sec. 7.5

Test conditions	**Impact height:**	950 mm
	Pendulum Mass (kg):	572,4 kg
	Pendulum Arm Length (m):	1,65 m
	Pendulum Angel (Radius°):	42,2°
	Pendulum Speed (m/s):	2,89 m/s
	Kinetic Energy	
	90° impact (Joule):	2.280 J
	Deflection (mm):	280 mm

DIMENSIONS

Length/ Height	1100 mm
Ø	Ø 144 mm Poller
Base plate (WxLxH)	170 mm x 170 mm x 8 mm

SPEED / KG SAMPLE CALCULATION

Reference speed	**5 km/h**	For a **vehicle** with a gross weight of **2.360 kg** with an impact angle of 90°.
Calculation	½ Mass (kg) x Speed2 (m/s) = 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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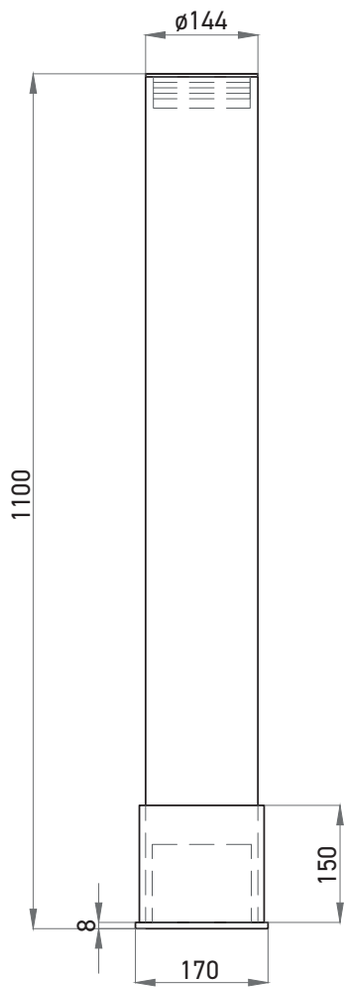

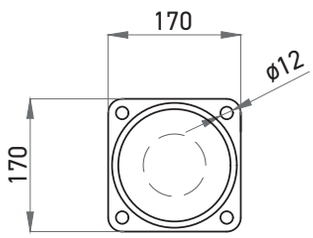

Watch the test video here!