



Rack-Mammut® Single Bumper Barrier

Technical data sheet



The Single Bumper Barrier was developed for both indoor and outdoor use. Due to its modular design, it can be extended as required. The impact protection barrier provides protection against damage caused by manually operated and motorised industrial trucks to walls, machines or goods. The single bumper barrier keeps vehicles and their loads on their intended paths and ensures that they cannot enter protected.



For 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:	273 mm
	Pendulum Mass (kg):	2504,8 kg
	Pendulum Arm Length (m):	1,53 m
	Pendulum Angel (Radius°):	38°
	Pendulum Speed (m/s):	2,52 m/s
	Kinetic Energy	
	90° impact (Joule):	7.571 J
	45° impact (Joule):	15.143 J
	Deflection (mm):	275 mm

DIMENSIONS

Length/Height	2000 mm / 450 mm
Ø	Ø 180 mm base / Ø 144 mm connecting tube
Base plate (WxLxH)	210 mm x 210 mm x 12 mm

SPEED / KG SAMPLE CALCULATION

Reference speed	7 km/h	For a vehicle with a gross weight of 8.000 kg with an impact angle of 45°
Calculation	$\frac{1}{2} \text{ Mass (kg)} \times \text{Speed}^2 \text{ (m/s)} = \text{Joules}$ (Formula applies for an impact angle of 45°)	

FIXING

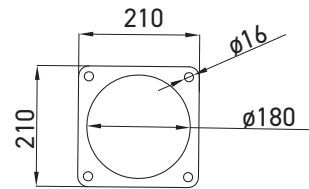
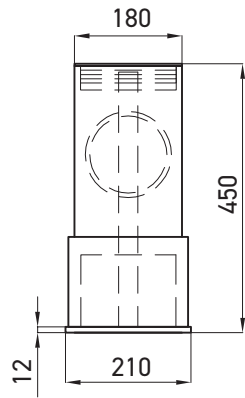
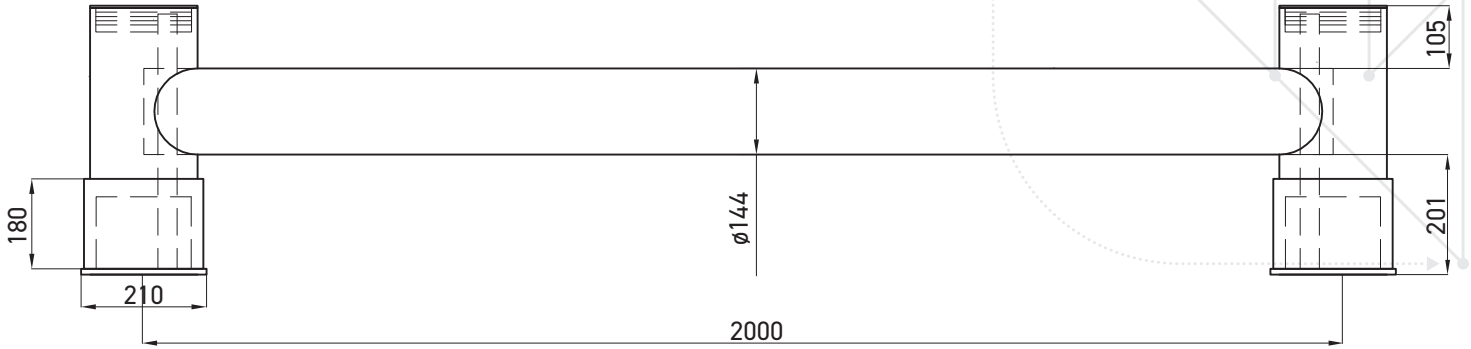
Heavy-duty concrete anchor	L = 110 mm ; Ø = 12 mm ; M12 45 Nm max. tightening torque 19,7 kN min. pull-out force
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Watch the test
video here!