



Rack-Mammut® Pedestrian Handrail Barrier

Technical data sheet



The Pedestrian Handrail Barrier is ideal for demarcating pedestrian areas from vehicle areas as well as other potential sources of danger indoors and outdoors. This flexible, energy-absorbing barrier serves to visually mark traffic routes. It physically protects pedestrians as well as vehicle drivers in the event of an accident by absorbing and dissipating impact energy. Ideal for areas with vehicle traffic where there is a risk of collision.



For heavily frequented pedestrian areas

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:	570 mm
	Pendulum Mass (kg):	674,8 kg
	Pendulum Arm Length (m):	1,65 m
	Pendulum Angel (Radius°):	42,6°
	Pendulum Speed (m/s):	2,92 m/s
	Kinetic Energy	
	90° impact (Joule):	2.738 J
	45° impact (Joule):	5.476 J
	Deflection (mm):	510 mm

DIMENSIONS

Length/Height	2000 mm / 1100 mm
Ø	Ø 144 mm bollard / Ø 90 mm handrail
Base plate (WxLxH)	170 mm x 170 mm x 8 mm

SPEED / KG SAMPLE CALCULATION

Reference speed	7,5 km/h	For a vehicle with a gross weight of 2.520 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

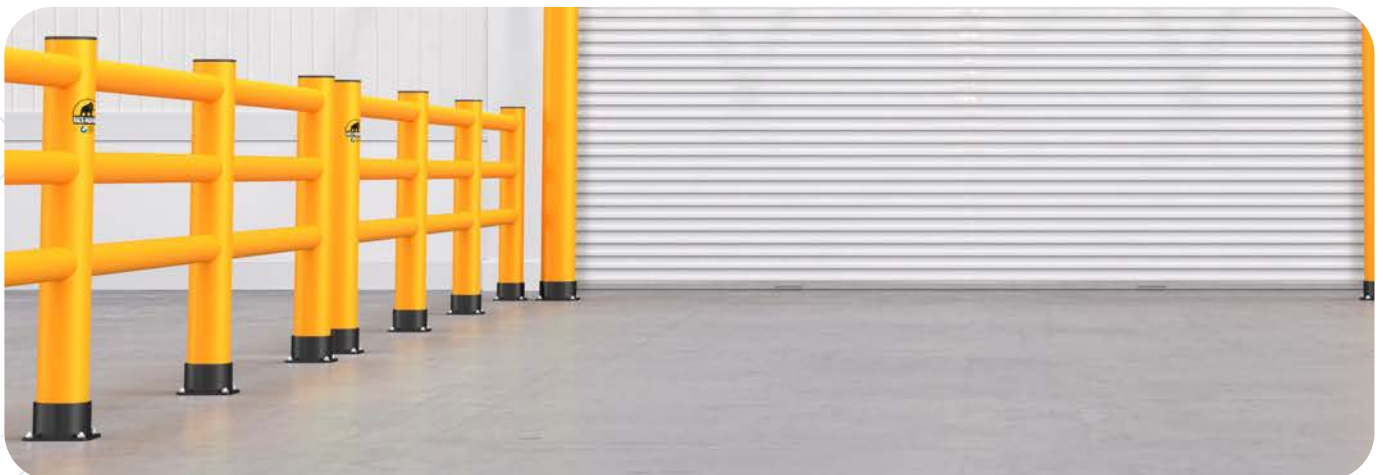
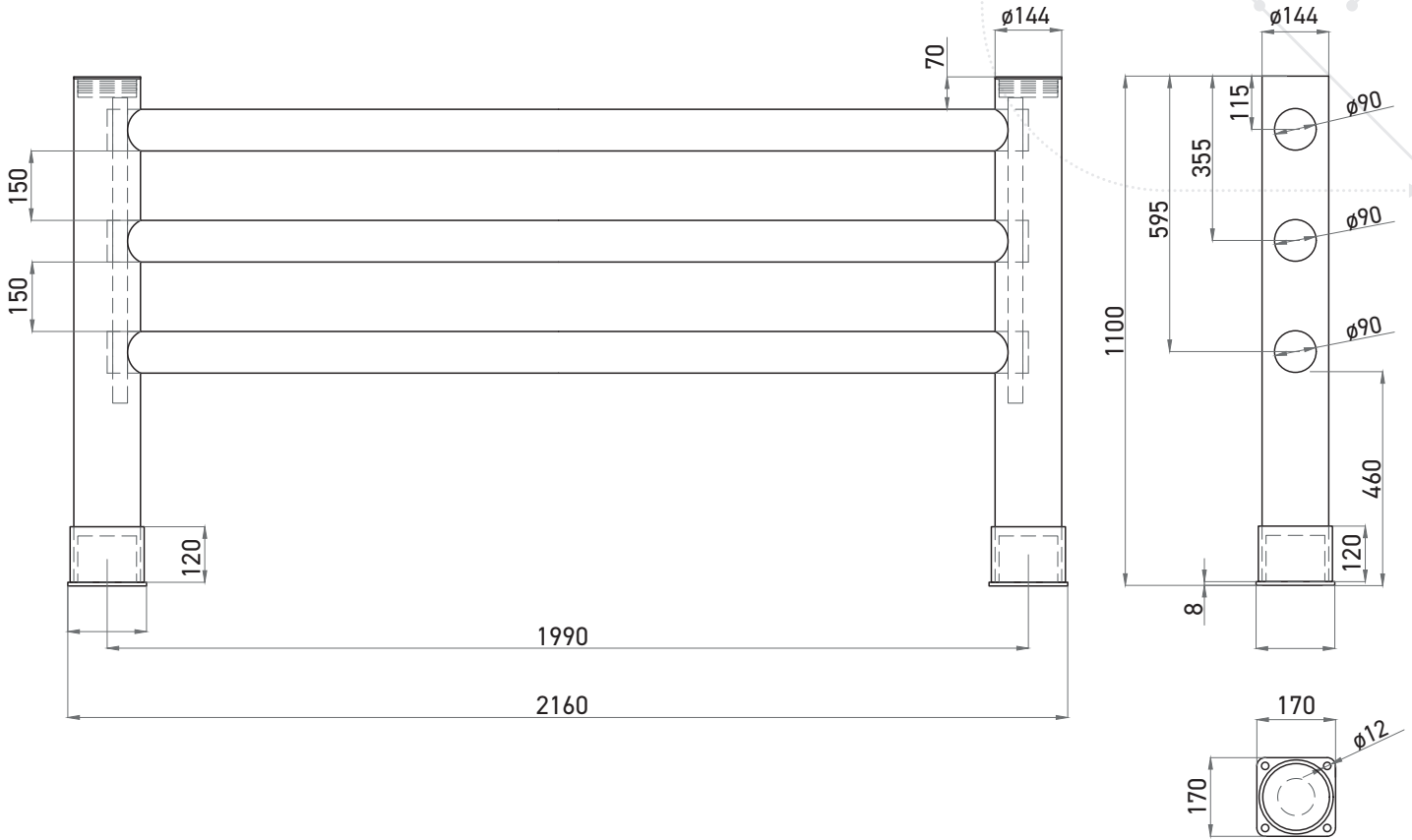
Heavy-duty concrete anchor	L = 110 mm ; Ø = 12 mm ; M12 45 Nm max. tightening torque 19,7 kN min. pull-out force
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Watch the test
video here!