



SHOCKPROOF BOLLARD PA 140

This structure has been design to protect places particularly vulnerable to shock damage, such as entrance gates, structural columns, building walls. Bollard PA may also limit a transport truck or a fork truck from entering any area while allowing any pedestrian into it.

The products are tested by the TÜV Rheinland unit and have been certified for safety.



Application:

Protection of machinery, gates, columns, walls, storage racks, demarcation of pedestrian routes

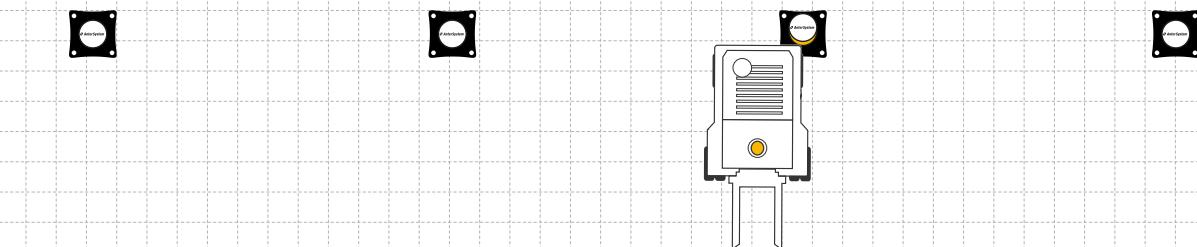
4 200 Joules

$\frac{1}{2} \text{ MASS} \times \text{ SPEED}^2 = \text{STRENGTH IN JOULES}$

MATERIAL PROPERTIES

Temperature range	-35°C to +60°C
Special version for freezer rooms	On request
Fire class	HB
Completely non-flammable version VO	On request
Toxicity	No risk
Meets requirements	HACCP, FDA
Corrosion resistance	High
Biodegradability	Yes, 100%

Recommended producer's inspection **every 12 mths**



SHOCKPROOF BOLLARD PA HD+

The Shockproof Bollard PA is also available in a reinforced version HD+ / PA HD+. It features a stronger structure, larger profile diameter than the standard version and correspondingly increased strength. PA HD+ poles also provide an entry block for forklifts and transport trucks while allowing pedestrians to move through the area.

Material	Polymeric material
Dimensions	Height: from 500 mm to 1200 mm Diameter: 140 mm

FIXING

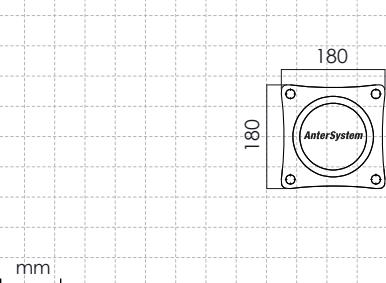
external fixing M16



Available version **HD+**

SHOCKPROOF BOLLARD PA 140

DIMENSIONS:



Color version



black and yellow
RAL 1003 / RAL 9005

Versions of the base



stainless steel
galvanized

Polymer strength

Thanks to innovative technology, the barriers have high strength and mechanical flexibility. The ability to bend and then return to their original shape. They retain their structure even after collision with forklifts.



Safe for food

The barriers are **waterproof and easy to clean**. They are ideal for warehouses storing frozen food and other demanding environments with sanitary rigors.



An investment that pays for itself

The plastic has durable aesthetics and is resistant: to chemicals, humidity, UV, scratches. Barriers do not require cyclic painting and help save money on maintenance.

Ergonomic shape

No sharp edges that affect the risk of damage to pedestrians and vehicles.

Without destroying the floor

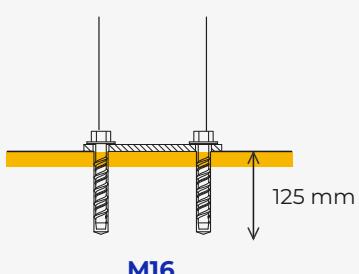
The deflection of the barrier takes up most of the impact energy, and it no longer affects the anchorage as much. The anchorage remains stable, and in the event of a strong impact, it behaves in such a way that the floor cracks less as a result.

Weather resistant galvanizing / stainless steel galvanizing

Well-suited quality

External fixing

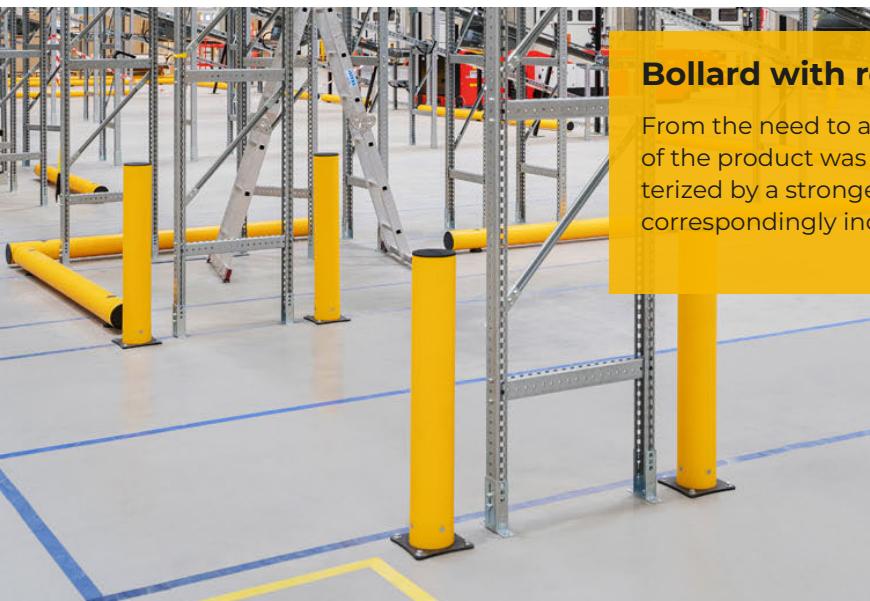
The lack of expansion required for anchoring guarantees low risk of damage to the substrate and makes the fastener ideal for installations near edges and adjacent anchors. It also works well in temporary conditions - it can be completely dismantled without damaging the floor.



Recommended for:

- Uncracked concrete / Cracked concrete C20/25-C50/60
- Reinforced, unreinforced concrete

High strength parameters in cracked uncracked concrete



Bollard with reinforced strength

From the need to adapt to the dynamics of the space, the HD+ version of the product was created, different from its basic version. It is characterized by a stronger structure, mounting, larger profile diameter and correspondingly increased impact resistance of the walls.



Additional mounting options

Slide Plate makes it possible to extend the barrier, in an area where it is necessary to maintain access to certain zones. For example: access to machinery, switchgear for maintenance work.



Biodegradability

The products were created in accordance with the philosophy of caring for the environment. They are 100% reusable for barrier production. With the future of our planet in mind, production processes are based on CSR and ESG principles.

Reducing the carbon footprint

By using flexible barriers, you support your company's environmental and ESG strategy.



Effectively reduce CO₂ emissions

5x less than the production of steel barriers



You support appropriate energy consumption

polymer materials yield twice the amount of product from 1 t of raw material (comparing with steel ones)



You reduce the generation of waste associated with the production process



Flexible barriers weigh less than steel ones. Lightweight shipments support reduced fuel consumption during transportation, reduced greenhouse gas emissions and more environmentally friendly logistics operations.

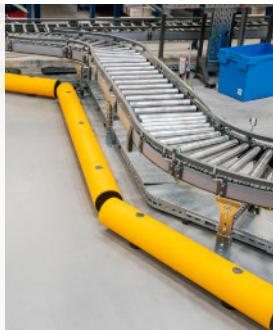
COMPREHENSIVE SECURITY FEATURES

Visible to the driver, safe for pedestrians
Pedestrian barriers to secure traffic lanes.



PEDESTRIAN LT BARRIERS

The barriers are mounted directly to the floor or just above the floor level. They complement other types of barriers as protection from forks of a forklift.



GB BARRIER

They work well in an area with very high traffic and a high risk of collisions involving medium and heavy warehouse vehicles.



TRAFFIC BARRIERS