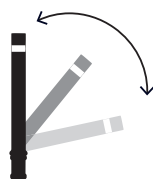


## A-FLEX BADALONA



Recycled material



90° Flexibility

Ref. PFBDNHN

**Flex Badalona flexible polyurethane bollard with memory.** After impacts, these sturdy but flexible bollards return to their original shape and position.

### A-FLEX BADALONA 100 MODELS:

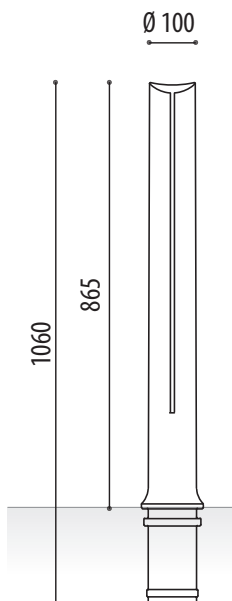
Black..... Ref. PFBDNHN

### A-FLEX BOLLARDS FEATURES:

- Virtually unbreakable.
- 100 % recyclable.
- Not painted. They do not rust. They do not need maintenance.
- After impacts, they return to their original shape and position.
- Excellent impact resistance and flexibility within a wide temperature range.
- High resistance to oils, greases and several solvents.
- High abrasion resistance.
- Pleasant touch.

### SIZE:

Diameter:  $\varnothing$  100 mm  
Visual height: 865 mm  
Total height: 1060 mm



*After impacts, A-Flex bollards return to their original shape and position. Virtually indestructible bollard.*



### ADVANTAGES OVER OTHER BOLLARDS:

#### Over metal bollards:

- They do not rust.
- Lower weight.
- Less noise.
- Corrosion resistance.
- No maintenance.

#### Over plastic bollards:

- No fragility.
- Elastomeric memory (compression set resistance)
- Abrasion resistance.

#### Over rubber bollards:

- Abrasion resistance.
- Cut and tear resistance.
- Push and dynamic loads resistance.
- Ozone resistance.

#### Over polyurethane cast bollards:

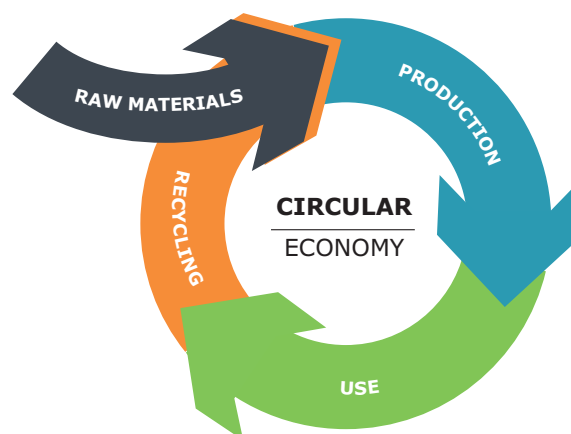
- High operating temperatures.
- No crystallisation (final breakage of the bollard).
- High resistance to humid environments (including hydrolysis).
- Presence of several chemical agents.

## FLEXIBLE BOLLARD COMPLIANT WITH CIRCULAR ECONOMY

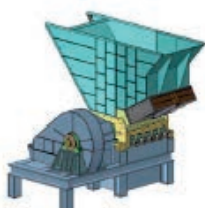
Our bollard is based on the principles of **prevention**, **reuse**, **repair** and **recycling**, in order to extend the durability of products and give them a new life, within a cycle that can be infinite.

The bollard has been designed on the basis of circular economy, according to the premises of the new European sustainability regulations. Besides being 100% recyclable and reusable, after their lifespan, the same bollards can be manufactured again, thus closing the circle.

A smart, innovative and sustainable plastics industry, in which design and production fully respect the necessary need to reuse and recycle, that drives job growth and helps reduce gas emissions, greenhouse effect and dependence on imported fossil fuels.



## 100% RECYCLABLE A-FLEX BOLLARDS



Shredder



The A-flex bollard allow recycling without chemical agents, thus being 100% ecological recycling (only the material is shredded), so flexible bollard are manufactured again.



### A-FLEX BOLLARDS CERTIFICATES:

1. Applus IDIADA certificate, A-Flex bollard HIC (head injury criteria).



The results obtained in the test are lower than  $< 650$ .

A-Flex is less than 216 (acceptable rating).



2. Applus IDIADA certificate A-Flex bollard impact test on torso (AIS).



The results obtained in these tests show a level of torso acceleration that is related to a probability of suffering an AIS3 serious injury of  $< 10\%$ .



3. Certificate of overcoming a flexion of 2,000 cycles at  $90^\circ$ .



More than 2,000 flexion cycles have been carried out resulting in no crack on the surface of the bollard which returned to its original shape after the application of a force able to bend it to  $90^\circ$ .



4. Certificate of vehicle impact test speeding at more than 80 km/h.

Impact of a vehicle at more than 80 km/h against the A-Flex bollard resulting in no damage.



5. Class E fire resistance certificate.

This classification has been carried out in accordance with the procedures given in Standard UNE-EN 13501- 1:2007+A1: 2010: "Fire classification of construction products and building elements".



6. Reach compliance certificate.

Flexible bollards made out of materials strictly under REACH (EU) law, free of heavy metals and pollutants as well as harmful substances.



7. EC certificate.

A-Flex bollards comply with the General Product Safety Directive of the European Community according to the regulation of 2001/95/EC, RD 1803/2003.



\* Certificates carried out on the A-Flex 100 root-fixed bollard.