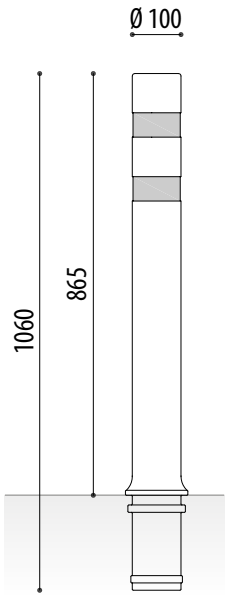


**SIZE:**

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



**A-Flex DT polyurethane flexible bollard** (double milling and reflective tape) for bike lanes, manufactured with a formulation of materials which causes the bollard to return to its original shape and position upon impact, turning it into a virtually indestructible bollard.

**A-FLEX DT 100 BIKE LANE MODELS:**

Maroon..... Ref. PFLEXDTHG

**A-FLEX DT 80 BIKE LANE MODELS:**

Maroon..... Ref. PFLEXDT80HG

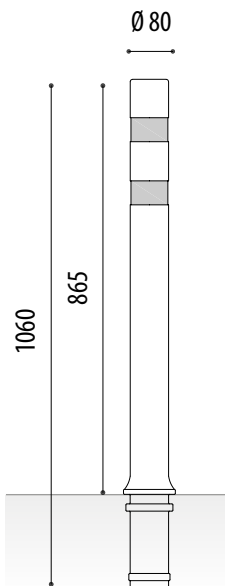
Approved bollard.



**Ajuntament de Barcelona**

**SIZE:**










Diameter:  $\varnothing$  80 mm.  
Visual height: 865 mm.  
Total height: 1060 mm.



*Designed to protect cyclists and pedestrians.*



### A-FLEX BOLLARDS ADVANTAGES:

-  Virtually unbreakable.
-  100 % recyclable.
-  Not painted. No rust. Maintenance-free.
-  Memory bollard; in case of impact, it returns to its original shape and position.
-  High resistance to many solvents, oils and greases.
-  Excellent impact resistance and flexibility on a wide range of temperatures.
-  High resistance to abrasion.
-  Pleasant to touch.
-  Aesthetically identical to metal bollards.

*The properties of this material allow the bollard to return to its original shape and position in the event of impact.*

*It cannot be torn, dented or corroded.*

### ADVANTAGES OVER OTHER BOLLARDS

#### Over metal bollards:

- Not rust.
- Less weight.
- Less rumors generated.
- Resistance to corrosion.
- No maintenance.

#### Over plastic bollards:

- No fragility.
- Elastometric memory (compression set resistance).
- Resistance to abrasions.

#### Over rubber bollards:

- Resistance to abrasions.
- Resistance to cut and injuries.
- Resistance to push and dynamic loads.
- Ozone resistance.

#### Over polyurethane cast bollards:

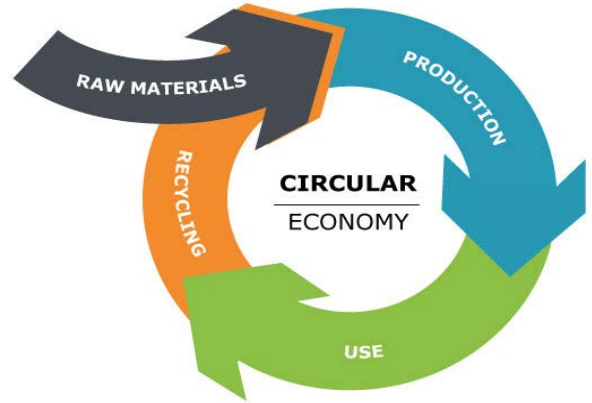
- Working at high temperatures.
- No crystallizing (final break of the bollard).
- High resistance to wet environments (even hydrolysis).
- Numerous chemical agents.

### FLEXIBLE BOLLARD COMPLIANT WITH CIRCULAR ECONOMY

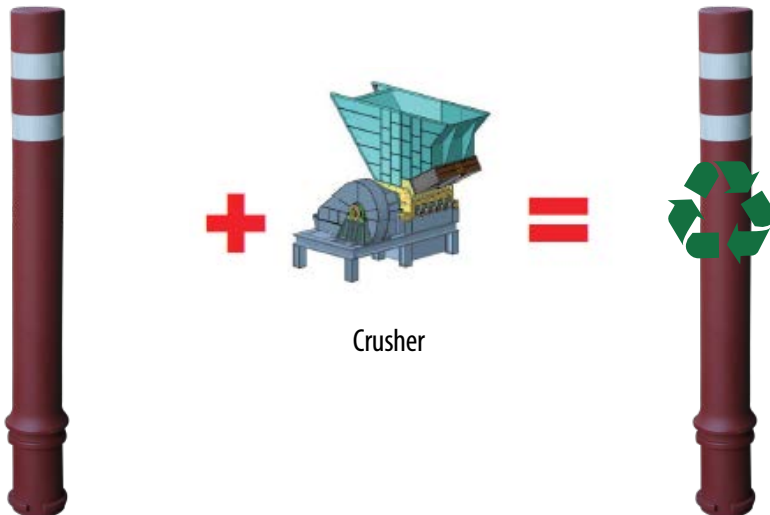
Our bollard is based on the principles of **prevention, reuse, repair and recycling**, in order to extend the durability of products and give them a new life, within a cycle that can be infinite.

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 DT BOLLARDS



The A-flex DT 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) impact test.



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.





# FLEXIBLE BOLLARDS

MODELO PATENTADO  
PATENTED MODEL

## A-FLEX DT BIKE LANE



[www.adourbanfurniture.com](http://www.adourbanfurniture.com)

+34 93 116 29 75 (International) | +34 93 456 03 03 (Spanish)

info@adourbanfurniture.com

Office, factory and warehouse: C/ Acer, 37-43 Pol. Ind. Les Guixeres 08915 Badalona - Spain