



FLEXIBLE BOLLARDS A-FLEX

MODELO PATENTADO
PATENTED MODEL

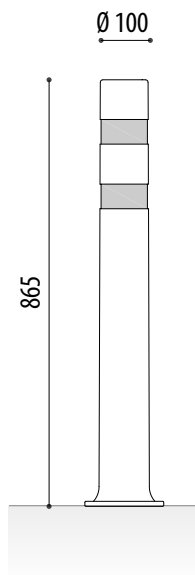
WITH PLATE FOR BIKE LANES



MEASURES:

Diameter: \varnothing 100 mm.

Total height: 865 mm.



Flexible polyurethane bollard with \varnothing 100 A-Resist B DT plate for bike lanes, ideal for places that do not require embedment with a 160x160 mm bottom plate, after receiving an impact they return to their original shape and position.

Being a practically indestructible bollard. Fixing by 4 metal studs (*not included*).

MODELS A-FLEX DT 100 FOR BIKE LANES WITH PLATE:

Maroon.....Ref. PFLEXDTHGP

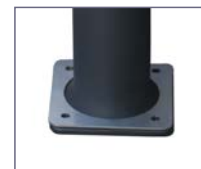
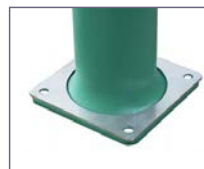
MODELS A-FLEX DT 80 FOR BIKE LANES WITH PLATE:

Maroon..... Ref. PFLEXDT80HGP

OPTIONAL:

- Stainless steel upper reinforcement plate for a better fixation to the ground.

Ref. PLPFLEX

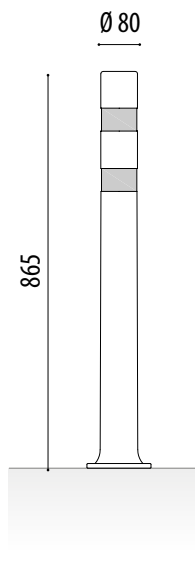


Detail base with a stainless steel reinforcing plate.
Ref. PLPFLEX

MEASURES:

Diameter: \varnothing 80 mm.

Visual height: 865 mm.



RECOMMENDED HARDWARE:

- Screws for concrete:
Plug \varnothing 11. - Ref. T11L



- Screws for asphalt / panot:
Plug \varnothing 10. - Ref. T10X135





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The properties of this material allow that in case of impact, the bollard comes back to its original shape and position. They don't break, they don't get dented and they don't oxidize.

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.

ADVANTAGES COMPARING TO OTHER BOLLARDS

Vs bollards made of metal:

- Not rust.
- Less weight.
- Less rumors generated.
- Resistance to corrosion.
- Zero maintenance.

Vs bollards made of plastic:

- Zero fragility.
- Elastometric memory (compression set resistance).
- Resistance to abrasions.

Vs bollards made of rubber:

- Resistance to abrasions.
- Resistance to cut and injuries.
- Resistance to push and dynamic loads.
- Resistance to the ozone.

Vs bollards of casting polyuretene:

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



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● A-FLEX BOLLARDS CERTIFICATES:

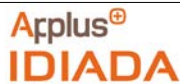
1. Certificate Appls IDIADA impact-proof bollard A-Flex head (HIC).

Obtained result in test are less than <math><650</math>. A-Flex is lees than 216 (slight rating).



2. Certificate Appls IDIADA impact-proof bollard A-Flex body (AIS).

Obtained results show a level of accelaration of the body which relates with a possibility of suffering from a damage is AIS3 of <math><10\%</math>.



3. Certificate of overcoming a deflactation of 2000 cycles at 90°.

They were realized more than 2.000 cycles of flection without appearing any line in the surface of the bollard and coming back to its original position after suffering a strenght which had flexed in to the 90°.



4. Certificate impact-proof from a vehicle at more than 80 km/h.

Impact from a vehicle at more than 80 km/h against the A-Flex bollard without being damaged.



5. Certificate of Resistance to fire Clase E.

This classification was realized according to what explained in the Norm UNE-EN 13501-1:2007+A1:2010: "Classification of the behaviour facing fire for the products to be built of the elements for edification".



6. Certificate of compliance Reach.

A-Flex bollards manufactured with materials according to the strict normative REACH (U.E.) at european nivel, they are free from heavy, polluting materials and damaging substances.



7. Certificate CE.

A-Flex bollards meet the general Directive of products in the European Community according to the norm 2001/95/CE, R.D. 1803/2003.





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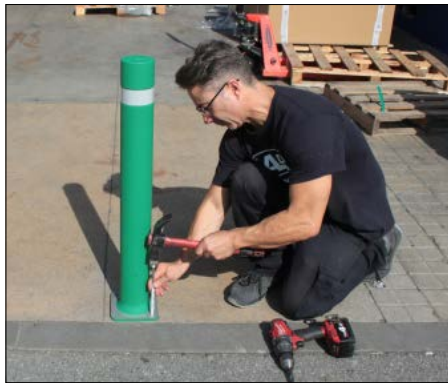
INSTALLATION EXAMPLE:



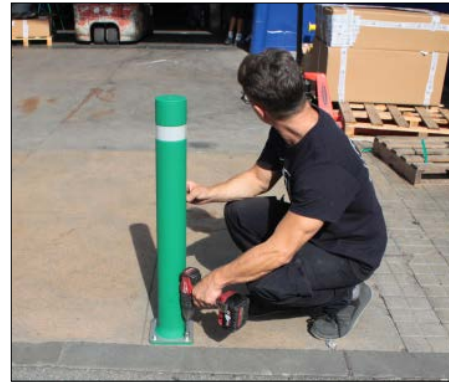
1.
Make 4 holes in the ground.



2.
Place the upper reinforcement plate.
REF.PLPFLEX.



3.
Put the 11 plug screws.
Ref.T11L



4.
Fix the screws with a socket wrench or screwdrivers.



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