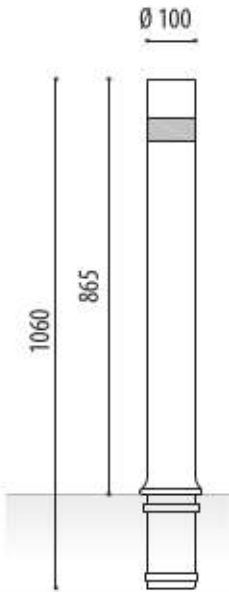


A-FLEX FIXED

MEASURES:

Diameter: \varnothing 100 mm.
View height: 865 mm.
Total height: 1060 mm.



Flexible bollard with memory model A-FLEX.
The bollard that offers flexibility and rigidity, in case of impact they recover their original shape and position.

A-FLEX 100 MODELS:

| | |
|--------------|--------------|
| Black | Ref. PFLEXHN |
| Green | Ref. PFLEXHV |
| Red | Ref. PFLEXHR |
| Yellow | Ref. PFLEXHA |












The A-Flex flexible bollards return to their initial shape and position after impact, and still are practically indestructible.

A-FLEX FIXED



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 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.

ADVANTAGES COMPARING TO OTHER BOLLARDS

| Vs bollards made of metal: | Vs bollards made of plastic: | Vs bollards made of rubber: | Vs bollards of casting polyuretene: |
|--|--|--|--|
| <ul style="list-style-type: none"> - Not rust. - Less weight. - Less rumors generated. - Resistance to corrosion. - Zero maintenance. | <ul style="list-style-type: none"> - Zero fragility. - Elastometric memory (compression set resistance). - Resistance to abrasions. | <ul style="list-style-type: none"> - Resistance to abrasions. - Resistance to cut and injuries. - Resistance to push and dynamic loads. - Resistance to the ozone. | <ul style="list-style-type: none"> - Working at high temperatures. - No crystallizing (final break of the bollard). - High resistance to wet environments (even hydrolisis). - Numerous chemical agents. |

A-FLEX FIXED

A-FLEX BOLLARDS CERTIFICATES:

1. Certificate Appls IDIADA impact-proof bollard A-Flex head (HIC).
Obtained result in test are less than <650.
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 <10%.



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.

A-FLEX FIXED



FLEXIBLE BOLLARDS

MODELO PATENTADO
PATENTED MODEL

A-FLEX WITH PLATE

MEASURES:

Diameter: \varnothing 100 mm.
Total height: 865 mm.



A-Flex B polyurethane flexible bollard with 160x160 mm. plate. Ideal for places which don't require embedding.

Attachment with 4 metal anchors (not included).

A-FLEX 100 WITH PLATE MODELS:

| | |
|--------------|---------------|
| Black | Ref. PFLEXHNP |
| Green | Ref. PFLEXHVP |
| Red | Ref. PFLEXHRP |
| Yellow | Ref. PFLEXHAP |

OPTIONAL:

- Stainless steel upper reinforcement plate for better fixing to the floor.

Ref. PLFLEX



*Detail base with a reinforcing plate.
Ref. PLFLEX*

RECOMMENDED SCREWS:

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



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












FLEXIBLE BOLLARDS

MODELO PATENTADO
PATENTED MODEL

A-FLEX WITH PLATE



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- Less rumors generated.
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- Zero maintenance.

Vs bollards made of plastic:

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- 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.
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A-FLEX WITH PLATE

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

Applus[®]
IDIADA



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

Obtained results show a level of acceleration of the body which relates with a possibility of suffering from a damage is AIS3 of $<10\%$.

Applus[®]
IDIADA



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

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Applus[®]
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FLEXIBLE BOLLARDS

MODELO PATENTADO
PATENTED MODEL

A-FLEX WITH PLATE

INSTALLATION EXAMPLE:



1.
Make 4 holes in the floor.



2.
Fit the upper reinforcement plate
REF.PLPFLEX.



3.
Fit the screw.
Ref.T11L



4.
Fix the screws using
a pipe wrench or
screwdriver.



A-FLEX WITH PLATE

