

## A-RESIST BOLLARDS CERTIFICATES

### 1. Certificate Applies IDIADA A-Resist's Impact Test on the Head (HIC).

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

- A-Resist H (high rigidity) is lower than 471.
- A-Resist S (low rigidity) is lower than 144.



Applus<sup>+</sup>  
IDIADA

### 2. Certificate Applies IDIADA A-Resist's Impact Test on the Body (AIS).

The results obtained in these tests show a level of acceleration of the body related to a probability of serious injury AIS of 12% for the model H.



Applus<sup>+</sup>  
IDIADA

### 3. Certificate of exceeding a bending of 6000 cycles at 90°.

More than 6,000 bending cycles were performed without any slits appearing on the bollard surface and during which the bollard was returned to its original position after the force required to bend it to 90° was applied



Applus<sup>+</sup>  
IDIADA

### 4. Certificate test of the impact of a vehicle at more than 80 km / h.

Impact of a vehicle over 80 km / h against the A-Resist bollard without being damaged.



### 5. Certificate of class E fire resistance



This classification was carried out in accordance with the procedures specified in UNE-EN 13501-1: 2007 + a1: 2010: "Classification according to the behavior of construction products and construction elements".

### 6. Certificate of conformity Reach



Flexible bollards made of materials subjected to strict European REACH (U.E.) regulations are free of heavy metals and contaminants, as well as harmful substances.

### 7. Certificate CE.



The A-Resist bollards comply with the General Product Directive of the European Community according to the standard 2001/95 / CE, R.D. 1803/2003.