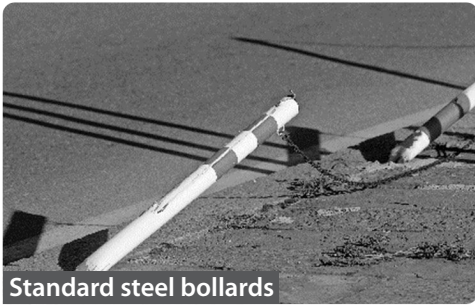


# Augustaflex® bollards

Flexible steel bollards with Augustaflex® technology



Standard steel bollards

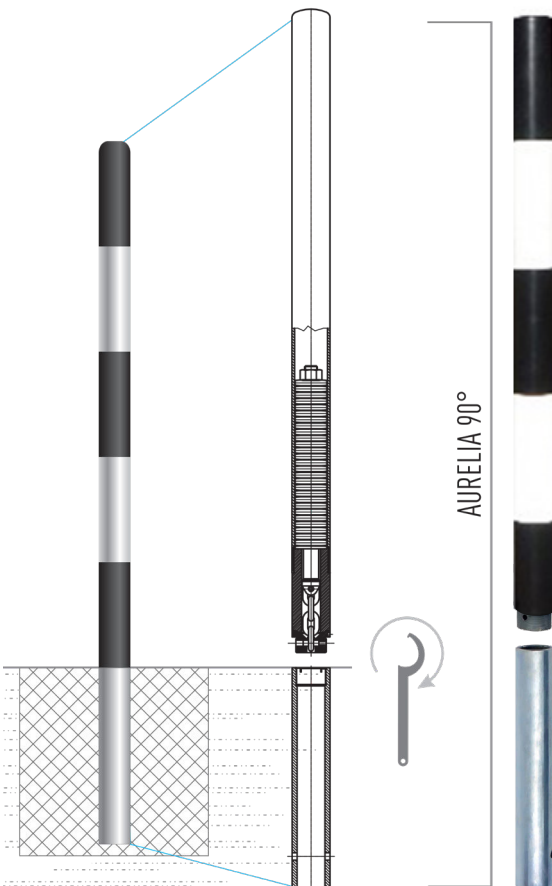


Augustaflex® flexible steel bollard

- FLEXIBLE ON CAR IMPACT
- RESISTANT TO HUMAN INTERACTIONS
- PROTECT URBAN LOOK AND CUT MAINTENANCE COSTS

## AUGUSTAFLEX® technology for signposts and bollards

SAEDI offers an intelligent solution to the urgent problem of damaged signposts and bollards in impact zones, disorderly aesthetics, and signpost maintenance – the innovative Augustaflex® technology with disc springs. Signposts and bollards equipped with the patented Augustaflex® technology appear like traditional fixed structures. However, in the event of a collision, they do not deform or break. The Augustaflex® system allows for a bending angle of 40° or 90° upon impact, promptly returning to the upright position. Augustaflex® signposts and bollards bend only in the case of sufficiently strong impacts, such as car collisions, but remain vertical during human interactions and gusts of wind.



### Application:

- impact zones, critical places with high frequency of damage
- parking lots, loading zones, turns of roads, narrow streets
- pedestrian zones and residential areas, inconvenient areas for manoeuvres

### Characteristics:

- Optimal strength level: Augustaflex bollards bend only upon car impact starting from 8kNm<sup>2</sup> and remain vertical in case of human interactions.
- Up to a 90° bending angle upon impact in any direction; the bollard returns immediately to the upright vertical position.
- Resistant to high-speed collisions.
- Available in steel or stainless steel (INOX) material.
- Diameter options: Ø60.3mm / Ø76mm, customizable.
- Three installation variants: surface or ground sleeve installation.

### Benefits:

- high aesthetic and security appeal;
- reduced maintenance and replacement costs;
- protection of urban aesthetics and parking lot surfaces.

### Components of Augustaflex® bollards:

- bollards with integrated flexible system Augustaflex®;
- ground sleeve or other installation fixing part (options: ground plate, ground sleeve with quick-release mechanism).

Certification: CE EN 12899-1



Guarantee: 5 years for Augustaflex® functionality



## Augustaflex® bollard's performance:

		Ø60.3mm	Ø76mm
Maximum bending angle	TDB6	90°	90°
Maximum bending moment (Mu)		0.799 kNm	1.121 kNm
Bending strength (EI)	TDT6	7.99 kNm <sup>2</sup>	11.210kNm <sup>2</sup>
Maximum torque moment (Tu)		0.511 kNm	0.506 kNm
Torsional rigidity (GI)		0.44 kNm <sup>2</sup>	0.440 kNm <sup>2</sup>
Performance in case of impact with vehicle, passive safety	NPD		
Material quality	steel-SP1 / stainless steel-SP2		
Painting	powder coating (except stainless steel models)		
Applied force for 6° bending (1 meter from the ground)		~80kg	~112kg

## Augustaflex® bollards, Ø60.3mm/Ø76mm

### INSTALLATION

Type of installation

ground sleeve

concrete foundation  
Ø60.3mm - 40cmx40cmx40cm  
Ø76mm - 50cmx50cmx50cm

ground plate

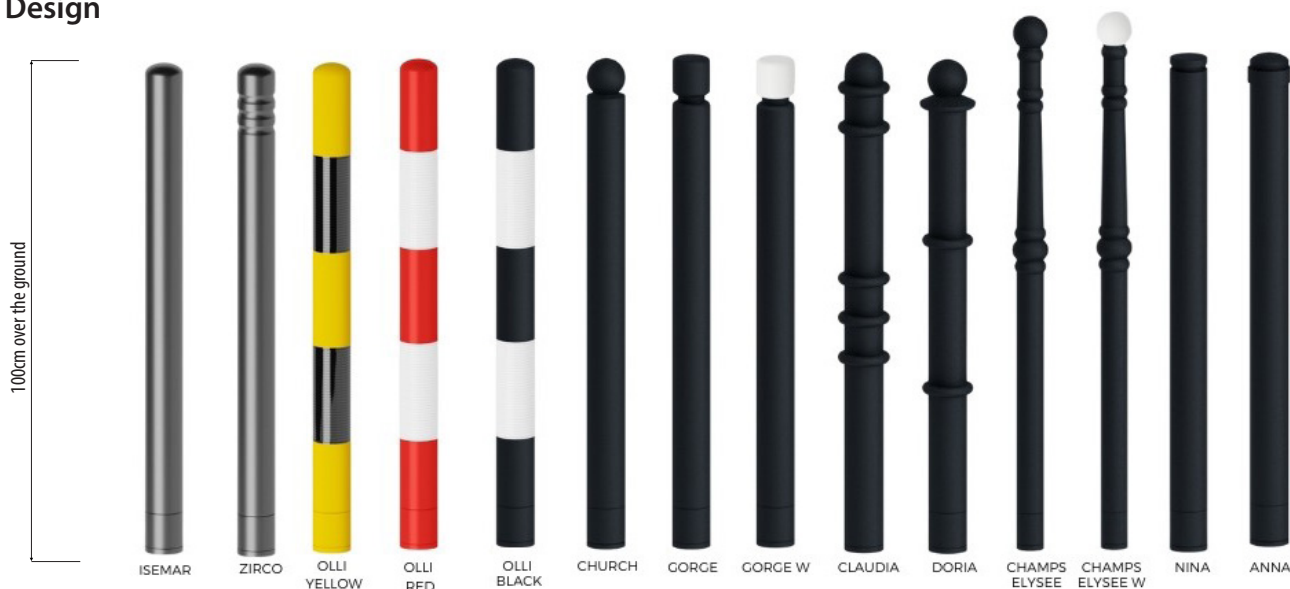
within concrete ancors

quick release,  
removable bollards

concrete foundation  
Ø60.3mm - 40cmx40cmx40cm  
Ø76mm - 50cmx50cmx50cm



### Design



Customized bollards are available upon request in a variety of heights, diameters, and colors.

[www.saedi-group.com](http://www.saedi-group.com)

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