



# AUGUSTA FLEX

Innovation in traffic technology



## AUGUSTAFLEX

---

- savings
- safety
- neat urban look



# PROBLEM

Every day traffic bollards and road signs are subjected to frequent damages, brought about by involuntary accidents or incorrect and clumsy parking manoeuvres, leading both to cars' damage as well as negative effects on urban décor and on the city's financial budget.

It is always unpleasant to notice damaged bollards or bent signs on roads. The condition of use of road signs and street furniture always creates a certain first impression of a city for its inhabitants and for the first-time visitors.

**The repair of a bollard or a road sign entails, consequently, a notable increase in spending: as well as the cost of the new element, the labour and installation costs have to be taken into consideration. In the end the total replacement costs are doubled compared to the price of a single pole or bollard.**



Statistical data:



- every year 500-800 traffic bollards are replaced in a Swiss city, taken as a sample, with a population of 2 million inhabitants\*
- every year 6% of poles for road signs in critical places must be replaced owing to damage\*\*
- in the long term the total expense associated with a bollard or road sign can amount to 40 times more compared to the initial investment following frequent repairs or replacements

## Negative effects:

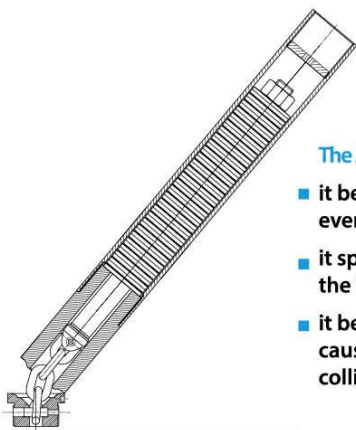
- unpleasant image of a city
- waste of budget for replacement
- hazard



Source \* "Tages anzeiger" "Der Pfosten für alle Fälle", 31-05-2017  
Source \*\* Internal research

## AUGUSTAFLEX technology for road signs and traffic bollards

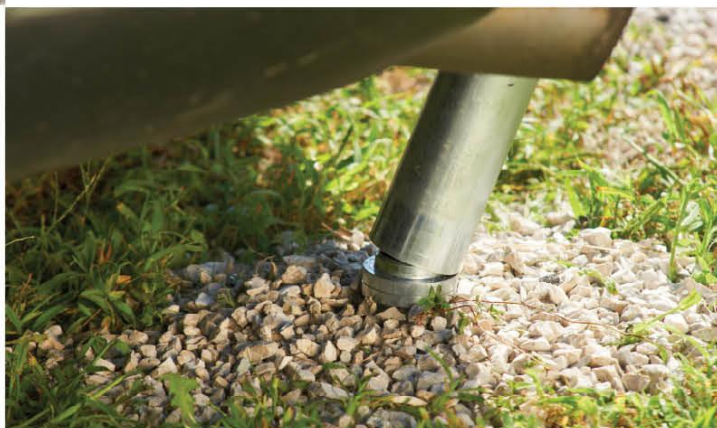
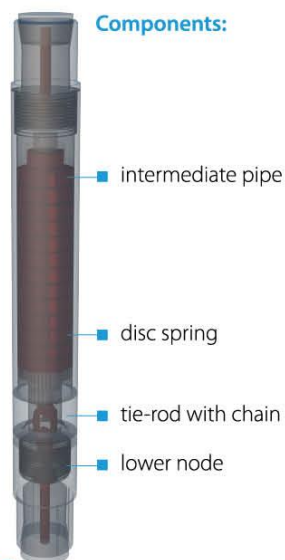
SAEDI offers the solution for the problem of damaged bollards and poles – **the innovative AUGUSTAFLEX technology with disc springs.**



**The AUGUSTAFLEX flexible base:**

- it bends in any direction in the event of a collision
- it springs back automatically to the initial vertical position
- it bends only with a strong force caused by a car in the event of a collision

*Disc spring guarantees operation of the system.*



The extraordinary performance of the system is achieved using disc springs.

This type of spring ensures not only flexibility, but also the sturdiness of the system.

## Advanced technology

There are no other flexible systems with the same features of flexibility, resistance and solidity. The system is certified and patented.



## Savings

AUGUSTAFLEX drastically cuts the costs for maintenance, monitoring and replacement of road signs and bollards.



## Accuracy and appearance of the city

AUGUSTAFLEX preserves urban décor. Road signs and bollards are both managed in their image and integrity.



## Safety

AUGUSTAFLEX increases the safety level for all traffic participants. Road signs and bollards are always clearly visible and correctly positioned.



## Convenience and disassembly

Bollards and sign bases with AUGUSTAFLEX technology can be easily removed:

- events and manifestations
- exceptional transport
- private parking lots



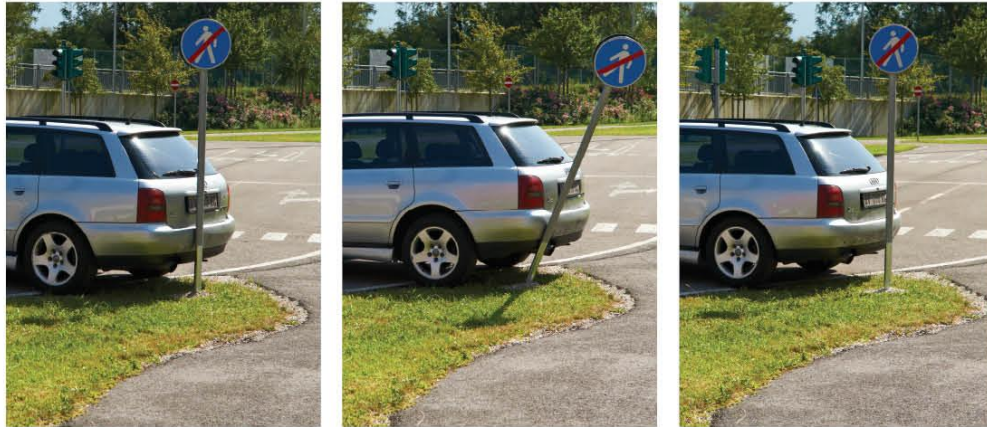
## Approved technology

Many tests and the favourable opinions of city councils confirm the performance, quality and efficiency of the system.



## Flexible upright for road signs

AUGUSTAFLEX upright was developed to avoid damage to road signs and to cut maintenance costs.



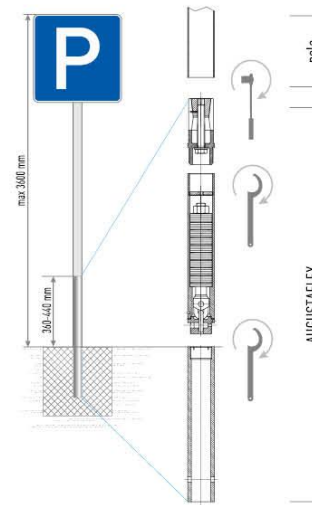
### Advantages:

- road signs bend up to 40° in any direction in the event of a collision and return automatically to the initial vertical position
- negligible costs for maintenance during the whole period of operation
- neat urban look
- signs are always clearly visible and correctly positioned
- road signs are easily removed if necessary (events and manifestations, exceptional transports, etc.)
- easily integrated into the existing or damaged signs (30 minutes)

### Solution for:



- critical places with high frequency of damage
- car parks
- open and unprotected zones
- in the immediate vicinity of sensitive or special places (town hall, company office, historical centre)

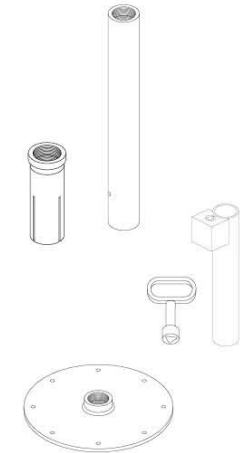


### Technical data:

- bending angle — up to 40° in any direction
- diameter — Ø 60.3mm; Ø 76mm
- components — • upper expander  
• upright with flexible system  
• fixing
- total permissible height of the pole with AUGUSTAFLEX upright — max 3600 mm
- weight — 9.2-20.4 kg
- corrosion protection — EN 1461; SP1
- material — steel
- resistance to chemical agents — yes
- certification — EN 12899-1, CE
- patent — European / international

### Fixing variants:

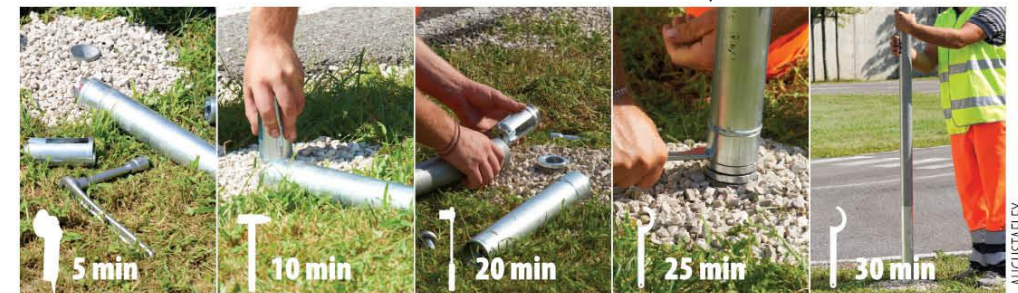
- ground sleeve** to be imbedded for new installations, when a foundation is not yet available
- expander** integration in existing road signs, without the need to make a new base
- ground sleeve with triangular-key rapid closure** to be buried imbedded for places where very rapid or frequent removal is needed
- ground plate (fixing to base concrete with 8 stoppers)** if it is not possible to make a foundation (covered car parks, shopping centre car parks)



### Fixing with expander

Easy integration with existing signs at any moment and at minimum cost.

- installation time - 30 min
- 1 person
- 0 machine



# ROBINSON 90°



## Flexible pole and upright for traffic islands

A deformed road sign on a traffic island is a danger for all traffic participants.

While designing the ROBINSON 90° model, special attention was given to produce a prototype robust to the most frequent damages of the poles for roundabouts, traffic and pedestrian crossings islands.



### Advantages:



it bends up to 90° in any direction in the collision event and springs back automatically to the initial vertical position



resistant to high-speed collisions



zero maintenance, monitoring and replacement costs during the whole period of operation. The cost is amortised after the first collision

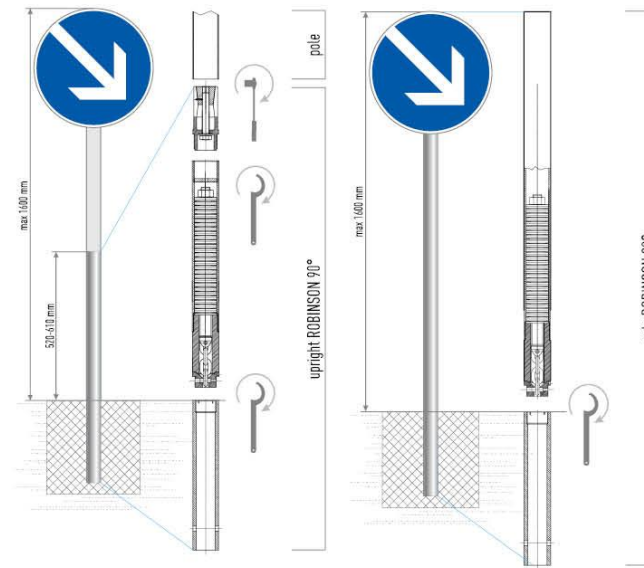


the road sign is always clearly visible and is in the upright and correct position

### Solution for:



- traffic islands
- islands protecting pedestrian crossings
- roundabouts
- height limiters



Robinson 90°. Flexible upright components:

- upper expander
- upright with AUGUSTAFLEX flexible system
- fixing

Robinson 90°. Flexible pole components:

- pole with integrated AUGUSTAFLEX flexible system
- fixing

### Technical data:

bending angle	— up to 90° in any direction
diameter	— Ø 60.3mm; Ø 76 mm
total permissible height	— max 1600 mm
weight	— 12.4-24.4 kg
corrosion protection	— EN 1461; SP1
material	— galvanised steel; SP1 steel
resistance to chemical agents	— yes
certification	— EN 12899-1, CE
patent	— European / international

### Fixing variants:

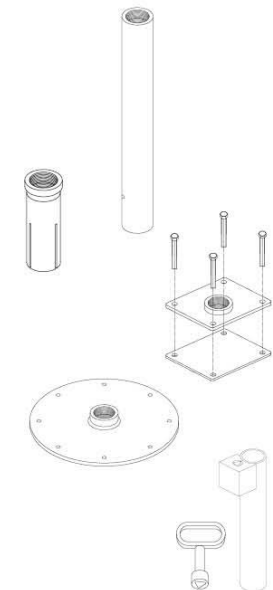
**ground sleeve** to be imbedded for new installations, when a foundation is not yet available

**expander** integration in existing road signs, without the need to make a new base

**plate** fixing system for traffic islands

**ground plate (fixing to base concrete with 8 stoppers)** if it is not possible to make a foundation (covered car parks, shopping centre car parks)

**ground sleeve with triangular-key rapid closure** to be imbedded for places where very rapid or frequent removal is needed



# AURELIA 90°



## Traffic bollards with AUGUSTAFLEX technology

### AURELIA 90° bollard combines advantages of different bollards' types:

- possibility of removal, as provided by a removable bollard
- resistance to impacts, as offered by a plastic or rubber bollard
- rigidity and ability to protect like a steel bollard
- high aesthetic impact of the steel or stainless-steel materials



## Advantages:



5-year guarantee for the AUGUSTAFLEX flexible system



bollards bend up to 90° in any direction in the event of a strong collision and spring back automatically to the initial vertical position



zero maintenance, monitoring and replacement costs during the whole period of operation. The cost is amortised after the first collision



bollards are easily removed if necessary (events and manifestations, exceptional transports, etc.)



neat urban look

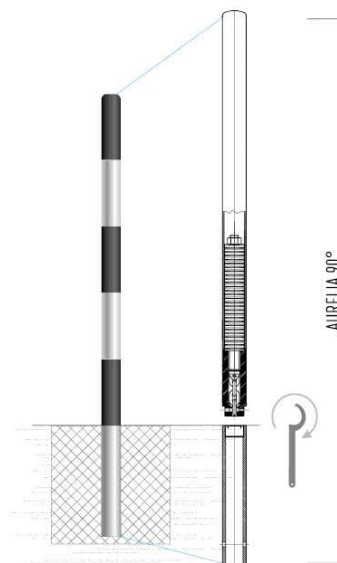


compliant standard sturdiness level that may be tailored to specific project requirements

## Solution for:



- critical and collision-prone zones
- exits, entries and bends in roads
- historical centres
- in the immediate vicinity of sensitive or special places (town hall, company office, banks)
- inconvenient areas with little room to manoeuvre

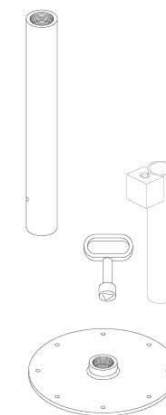


## Technical data:

- bending angle — up to 90° in any direction
- diameter — Ø 60.3 mm; Ø 76 mm
- diameter customisable — yes
- components — • bollard with integrated AUGUSTAFLEX flexible system  
• fixing
- material — galvanised and painted steel; SP1 stainless steel; SP2
- certified — EN 12899-1, CE
- corrosion protection — EN 1461; SP1
- resistance to chemical agents — yes
- painting — powder
- patent — European / international

## Fixing variants:

- ground sleeve — to be imbedded for new installations, when a foundation is not yet available
- ground sleeve with triangular-key rapid closure — to be imbedded for places where very rapid or frequent removal is needed
- ground plate (fixing to base concrete with 8 stoppers) — if it is not possible to make a foundation (covered car parks, shopping centre car parks)



## Disassembly:

**Bollard AURELIA 90° can be easily removed if necessary (events and manifestations, exceptional transport)**

All fixing variants:



30 seconds ⌚ 5 seconds

1 person 🧑 1 person



Ground sleeve with triangular-key rapid closure:



# DESIGN

## Inox bollards



model	Isemar	Zirco
Ø 60,3mm; Ø76mm +		
AURELIA with AUGUSTAFLEX +		
fixed without AUGUSTAFLEX +		
removable with the key +		
without AUGUSTAFLEX		




AURELIA with AUGUSTAFLEX +  
 fixed without AUGUSTAFLEX +  
 removable with the key +  
 without AUGUSTAFLEX



New  
 LED illuminated bollards  
 solar or electric power supply

## Traffic bollards



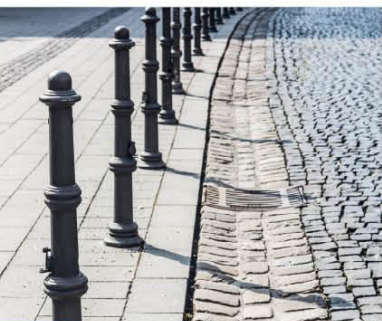
model	Olli Y	Olli B	Olli R
Ø 60,3mm; Ø76mm +			
AURELIA with AUGUSTAFLEX +			
fixed without AUGUSTAFLEX +			
removable with the key +			
without AUGUSTAFLEX			

AURELIA with AUGUSTAFLEX +  
 fixed without AUGUSTAFLEX +  
 removable with the key +  
 without AUGUSTAFLEX



New  
 wood bollards

## Steel pedestrian bollards



model	Church	Church B	Gloria	Twin	DS	Doria	Claudia
Ø 60,3mm; Ø76mm +							
AURELIA with AUGUSTAFLEX +							
fixed without AUGUSTAFLEX +							
removable with the key +							
without AUGUSTAFLEX							



## Customisation

The design and customisation of the bollard places them perfectly in any architectural context

design/height /diameter — customisable

In addition to the standard designs SEADI technical office creates and produces customised bollards



Saedi Ltd  
18, Argentieri str  
Italy -39100 Bolzano  
Tel. +39 0471 06 55 55  
Fax +39 0471 06 55 56  
info@saedi-group.com  
VAT: 02759700210

---

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