

Augustaflex

Flexible steel upright for signposts



Standard signpost



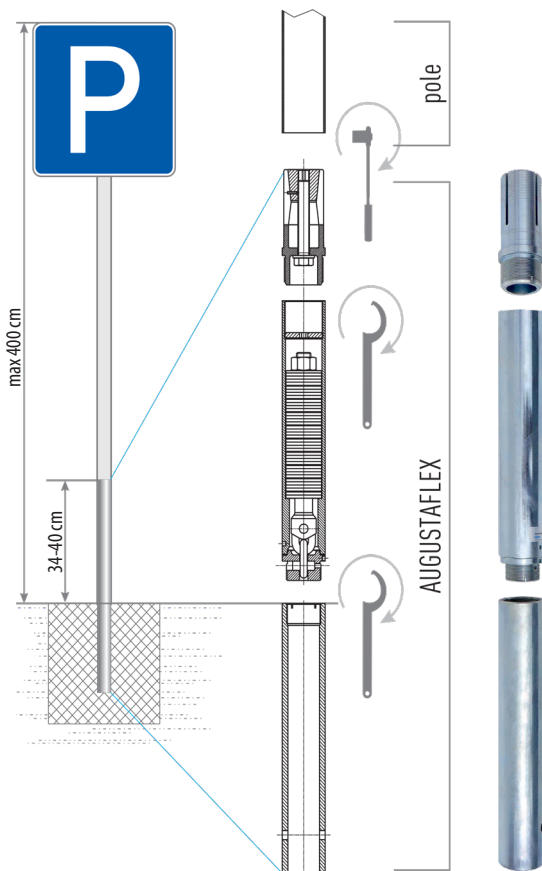
Signpost with Augustaflex upright

	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 and critical areas with a high frequency of damage.
- Parking lots, loading zones, and crossroads.
- Residential areas, especially in areas inconvenient for maneuvers.

Characteristics:

- Optimal strength level: The signpost bends only upon a car's impact starting from 18 kNm² and remains vertical in case of human interactions.
- Up to a 40° bending angle upon impact in any direction; the signpost returns immediately to the upright vertical position.
- Diameter options: Ø60.3mm/Ø76mm, total signpost height up to 400cm.
- Four installation variants: surface, ground sleeve installation, or within lower expander for existing signpost and plinth.

Benefits:

- Reduced maintenance and replacement costs.
- Protection of urban aesthetics and parking lot surfaces.
- Enhanced safety: the sign is clearly visible to traffic participants.

Components of Augustaflex upright kiti includes:

1. Upper expander for a joined pole with a wall thickness of 2.9mm (available on demand in 2mm/2.9mm/3.6mm). The upper expander is fixed to a pole using a dynamometric key.
2. Augustaflex flexible upright.
3. Ground sleeve or another fixing part (options include: lower expander, ground plate, ground sleeve with a quick-release mechanism).

Certification: CE EN 12899-1



Guarantee: 2 years for Augustaflex® functionality

Augustaflex upright performance declared in accordance with EN 12899-:

		Ø60.3mm	Ø76mm
Maximum bending angle		40°	40°
Maximum bending moment (Mu)	TDB6	1.8048 kNm	2.8526 kNm
Bending strength (EI)		18.048 kNm ²	28.526 kNm ²
Maximum torque moment (Tu)	TDT5	0.226 kNm	0.322 kNm
Torsional rigidity (GI)		0.3965 kNm ²	0.280 kNm ²
Performance in case of impact with vehicle, passive safety	NPD		
Material of Augustaflex components, resistance to corrosion	Steel, SP1		
Wind action	WLO		
Material quality of post (complimentary)	S235JR G2, minimum		
Applied force for 6° bending (1 meter from the ground)		~180kg	~280kg

Augustaflex upright, Ø60.3mm/Ø76mm, recommended total maximum signpost's height - 400cm

INSTALLATION

ground sleeve
AF60....B1
AF76....B2

lower expander
AF60....B1
AF76....B2

ground plate
AF60....B1
AF76....B2

quick release
AF60....B1
AF76....B2

Augustaflex upright is easily fixed to a conventional post within upper expander and dynamometric key



Type of installation	concrete foundation Ø60.3mm 40cmx40cmx40cm Ø76mm 50cmx50cmx50cm	existent signpost, present concrete base must meet quality, size and condition requirements	within concrete ancors	concrete foundation Ø60.3mm 40cmx40cmx40cm Ø76mm 50cmx50cmx50cm
New installation	+	-	+	+
Upper expander for joined pole with wall thickness of	2mm/2.3mm/2.6mm/2.9mm/3.2mm/3.6mm			
Total maximum signpost's height	can be varied according to height of pole joined to Augustaflex flexible upright, recommended signpost total height is no more than 400cm			
Total weight Ø 60.3mm	11.0 kg	9.2 kg	12.6 kg	13.9 kg
Total weight Ø 76mm	16.8 kg	14.9 kg	17.3 kg	20.4 kg
Possibility of signpost's removal by means of hook spanner (30 seconds)	+	+	+	+
Possibility of fast signpost's removal by means of triangular key (5 seconds)	-	-	-	+