

Augustaflex

Flexible steel upright for signposts



Standard signpost



Signpost with Augustaflex upright

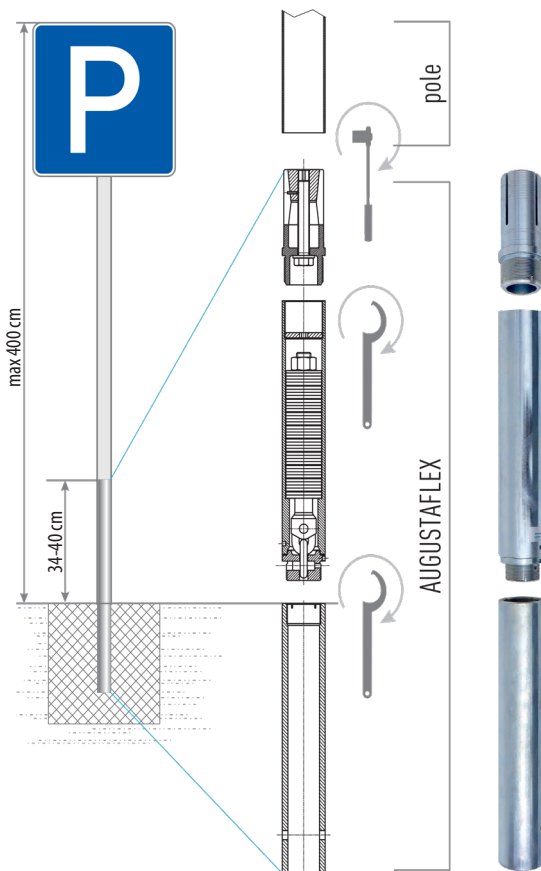


AUGUSTAFLEX® technology for signposts and bollards

Smart traffic solution

SAEDI offers a smart solution to the urgent problem of damaged signposts and bollards in impacts zones, disorderly look and signposts' maintenance - innovative Augustaflex® technology with disc springs.

Signposts and bollards with patented Augustaflex® technology look as traditional fixed ones, but in collision event they do not get deformed or broken - Augustaflex® system allows for 40° or 90° bending angle on impact, returning immediately to the upright position. Augustaflex® signposts and bollards bend only on sufficiently strong impact such as car hits but stay vertical in case of human interactions and gusts of wind.



Application:

- impact zones, critical places with high frequency of damage
- parking lots, loading zones, crossroads
- residential areas, inconvenient areas for manoeuvres

Characteristics:

- optimal strength level. Signpost bends just on car's impact from 18 kNm² and stays vertical in case of human interactions
- up to 40° bending angle on impact in any direction, signpost turns back immediately to the upright vertical position
- Ø60.3mm/Ø76mm, total signpost height till 400cm
- 4 variants of installation: surface, ground sleeve installation, or in existent signpost

Benefits:

- cut maintenance and replacement costs
- protect urban look and parking lots surface
- raise safety level. The sign is always clearly visible to traffic participants

Assembly:

Augustaflex upright includes components:

1. upper expander for joined pole with wall thickness of 2.9mm (on demand 2mm/2.3mm/2.6mm/3.2mm/3.6mm). Upper expander is fixed to a pole within dynamometric key
2. Augustaflex flexible upright
3. ground sleeve or other fixing part (for choice: lower expander, ground plate, ground sleeve with quick release mechanism)

Certification: CE EN 12899-1



Guarantee: 2 years for Augustaflex® functionality

Augustaflex performance declared in accordance with EN 12899-1

		Ø60.3mm	Ø76mm
Maximum bending angle		40°	40°
Maximum bending moment (Mu)		3.437kNm	4.354kNm
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	WL0		
Material quality	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)	-	-	-	+