

# Robinson90° for traffic islands

Flexible upright and signpost with Augustaflex® technology



Standard signpost



Robinson90° flexible signpost

<b>STEEL</b> 100%	MADE OF STEEL
90° ANGLE, IMPACT RECOVERY	
<b>5</b> YEAR GUARANTEE	5 YEARS GUARANTEE



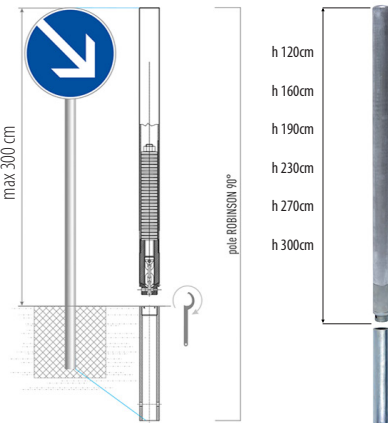
## AUGUSTAFLEX® technology for signposts and bollards

### Smart traffic solution

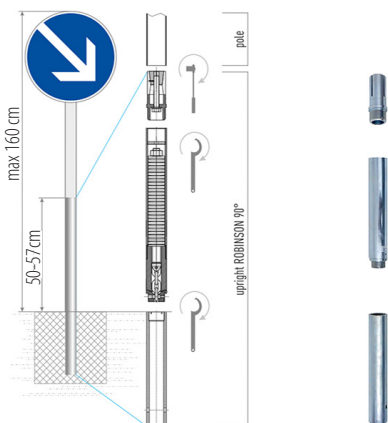
SAEDI offers a smart solution to the urgent problem of damaged signposts and bollards in impacts zones, disorderly look and signposts' maintenance - innovative Augustaflex® technology with disc springs.

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.

### NEW Height till 300cm



#### 1 Robinson90° signpost model



#### 2 Robinson90° upright model

Flexible upright is easily fixed to a conventional round post within upper expander

#### Application:

- traffic islands
- roundabouts
- inconvenient areas for manoeuvres
- freight terminals, warehouses
- impact zones, critical places with high frequency of damage

#### Characteristics:

- optimal strength level. Signpost bends just on strong impact (from 7.99kNm)
- till 90° bending angle in any direction, turns back immediately to the upright vertical position after car impact
- resistant to medium speed collisions
- available in flexible signpost and flexible upright versions
- Ø60,3mm/Ø76mm, total signpost height till 300cm
- 4 fixing variants, surface or ground sleeve installation

#### Benefits:

- avoid maintenance and replacement costs
- protect urban and road look
- sign is clearly visible to traffic participants, since Robinson90 signpost is always in the correct vertical position

#### Assembly:

- Robinson90 signpost includes:
  1. signpost with integrated Augustaflex®
  2. fixing part for choice
- Robinson90 upright includes:
  1. upper expander for joined pole with wall thickness of 2.9mm (on demand 2mm/2.3mm/2.6mm/3.2mm/3.6mm)
  2. flexible upright with Augustaflex
  3. fixing part for choice

Certification: CE EN 12899-1

Guarantee: 5 years for Augustaflex® functionality



## Robinson90° performance declared in accordance with UNI 12899-1

		Ø60.3mm	Ø76mm
Maximum bending angle		90°	90°
Maximum bending moment (Mu)		1.405 kNm	1.791kNm
Bending moment (Mu)	TDB6	0.799 kNm	1.121kNm
Bending strength (EI)		7.99 kNm <sup>2</sup>	11.210kNm <sup>2</sup>
Maximum torque moment (Tu)	TDT6	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 of Augustaflex components, resistance to corrosion	Steel, SP1		
Material of pole (only for Robinson90° flexible signpost version)	hot galvanized EN1461		
Wind action	WLO		
Material quality			
Applied force for 6° bending (1 meter from the ground)		~80kg	~112kg

### INSTALLATION

#### ground sleeve

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

#### plate

rubber traffic islands,  
within ancors

#### ground plate

within concrete ancors

#### quick-release

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



**1 Robinson90° flexible signpost, Ø60.3mm, Ø76mm, recommended signpost's height 120-160cm, with special version up to 300cm**  
Flexible signposts above 1.60cm height are realized according to project specifications

**2 Robinson90° flexible upright, Ø60.3mm, Ø76mm, recommended maximum total signpost's height from ground level - 160cm**  
Flexible upright is fixed to a conventional post within upper expander.  
Upper expander corresponding to wall thickness of joined pole: 2mm/2.3mm/2.6mm/2.9mm/3.2mm/3.6mm  
Total maximum signpost's height can be varied according to the height of a post joined to Robinson90 upright.

Customised signposts/uprights in various heights and diameters are available on request.