# Passive road marker GlasFIX

Passive road marker STANDARD

Passive road marker FLAT

**In addition to the active electric signal units from GIFAS, non-electric road markers are a suitable high-quality alternative.**

The passiv GIFAS road markers are perfect for use in roundabouts and on roads and paths, especially at night or in the rain, if no power supply is available, or for cost or maintenance reasons.

## Starting situation

Lanes are traditionally separated by simple marking lines. However, these can be ineffective under certain conditions and require support for improved visibility at night or in the rain. Such objects include:

- pedestrian crossing in front of a traffic island or on an approach to a roundabout
- dangerous bends or other complex traffic management systems which require enhanced marking
- allocation of specific or reserved lanes

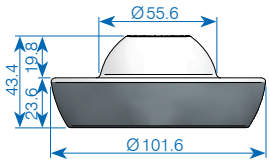
## Characteristics

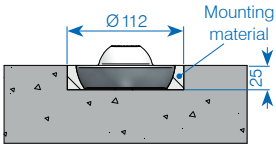
The road marker is a simple and efficient instrument for effective marking at night or in the rain. Furthermore, the use of markers has an additional very interesting effect: slight repetitive vibrations can be felt when driving over these markers. These warn the driver and prevent head-on collisions and unintentional lane deviations.

- certified according to norm EN1463 – 1 and 2).
- made of toughened glass, very long service life
- these markers are available in 2 versions: STANDARD (19.7 mm high) and FLAT (13 mm high), in 180° and 360° models.
- Roads are visible at night and in the rain, regardless of vehicle direction.

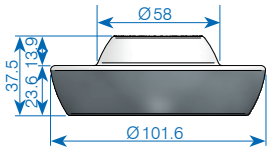
## Dimensions

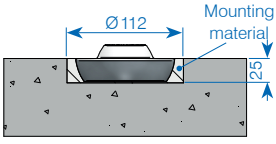
### Passive road marker STANDARD



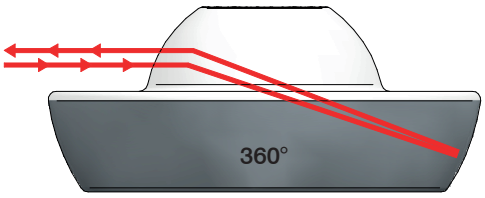



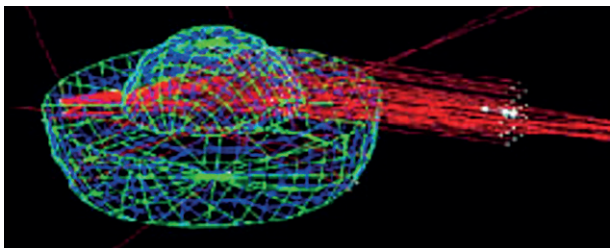

### Passive road marker FLAT




## Principle





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## Installation

**1. step:**
Bore pavement, concrete, granite surface 4.3" (112 mm), with a depth of 0.98" (25 mm),

or

Portable core drilling rig

Truck mounted grinder

**2. step:**
If drilling rig is used, first break the core with a jackhammer and level the ground so that the surface of the hole is flat with no protruding peaks. Peaks could create pressure points on the marker when
rolled on.

Make sure to clean and dry the cavity.

**3. step:**
After cleaning the gravel and dust, and drying the hole, fill hole with the proper dose of bitumen or similar.

**4. step:**
Position the marker in its predrilled surface cavity. When inserting the marker, a slight "t wist" helps run the adhesiuvpe around the markers edge allowing a bead of adhesive to guarantee proper bonding characteristics. This eliminates all possibilities of the marker tearing out of its socket. The technique also acts as an absorption membrane from expanding/contracting surfaces due
to temperature changes.

**5. step: completion**
Once in place, only the sphere will be above the Surface = 0.77" (19.8 mm). This method of application assures the protection of the marker mirror allowing the glass marker to last indefinitely. The markers ability to be seated into the surface offers a clean elegant installation esthetically enhancing its surrounding environment.

## Advantages

- quick and simple to install
- no need for power
- optimal product life, stable optical effectiveness over time, and excellent compression and impact
- high scratch resistance strength
- self-cleaning marker (maintenance-free)
- existing infrastructure can also be easily retrofitted

ⓘ Detailed instructions available on separate installation instructions

✓ from stock, offer subject to prior sale

## Installation material

Installations are performed using core-drilling bits, preferably with Diamond tip cutters or by grinding directly to the surface. According to the number of marker to be installed, currently two types of core bits are preferred, both requiring the use of different machines.

### Diamond coring

When installing smaller quantities (<500 units), we recommend the use of a light diamond coring tool, equipped with a 4.3" (112 mm) coring bit. This method requires removal of the core.
A slightly larger diameter (120 mm) can be preferred when installing the marker in zones of high density traffic. In this case the fixing material will be also used as shock absorber.

### Carbide drill bits

When larger quantities of marker must be installed (> 500 units), time efficiency becomes more important. In order to gain significant installation speed, carbide-tipped cutters can be used for grinding the ground. This method is much faster but requires the use of a truck mounted core bit machine. This method with 2 persons can install 500 markers in one day of work.

When the 4.3" (112 mm) hole with a depth of 0.98" (25 mm) is bored, cleaning of the hole is required. Adhesive is used for bonding the marker to the pavement / concrete.

### Joint sealing compound bitumen:

We recommend this application method for large volume installations. This system requires a thermal heating unit capable of maintaining bitumen at an applicable temperature. Today, Hot bitumen is the less expensive and most efficient for glass marker installations.

| | Item no. | Designation |
|---|---|---|
| ✓ | 860649 | Passive road marker GlasFIX STANDARD white |
| ✓ | 860650 | Passive road marker GlasFIX FLAT white |
| | 860651 | Passive road marker GlasFIX FLAT orange |
| ✓ | 860652 | Passive road marker GlasFIX FLAT blue |
| ✓ | 860653 | Passive road marker GlasFIX FLAT red/white |
| | 860654 | Passive road marker GlasFIX FLAT green |
| | 860655 | Passive road marker GlasFIX FLAT yellow |
| ✓ | 028303 | Sealing compound CTW Duro Stabil, container 10 kg (bitumen) |
| ✓ | 195473 | Sealing compound 2-components, pot à 8 kg (cold) |
| | *196444 | Drill bit Ø 112 mm (Hilti) |

** Suitable for change pipe BI 112/430-X*



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