

# Safeline Road railing

## Safeline One-sided

### Tube formed guardrail

### Installation manual



Installer:

**Vik:**  
6893 Vik i Sogn

**Tlf: +47 57 69 86 50**  
Faks: +47 57 69 86 60  
[firmapost@vikorsta.no](mailto:firmapost@vikorsta.no)

**Ørsta:**  
Skorgeura  
6150 Ørsta

**Tlf: +47 70 04 70 00**  
Faks: +47 70 04 70 04  
[firmapost@vikorsta.no](mailto:firmapost@vikorsta.no)

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## 1. Important

Proper installation and repair is essential to ensure the systems maximum performance.

## 2. Description

Safeline is a steel road restraint system that is designed to enhance safety on the roads.

The system has successfully been tested according to class N2 described in EN 1317-2.

The system is based on steel posts with post distance of 3 meters and longitudinal steel tubes.

In a collision the system is designed to lead the vehicle back on the road.

The bolts are an important part of the systems function and this manual should be read carefully before installation is started.

## 3. Level of performance

According to EN-1317

| Post distance | Containment level | Working width | Dynamic deflection | Impact severity level |
|---------------|-------------------|---------------|--------------------|-----------------------|
| 3 m           | N2                | 1,7 m/W5      | 1,6 m              | A                     |

## 4. Installing

### 4.1 Soil and placement

The soil where the barrier is placed should be of sufficient quality to ensure the guardrails function.

The posts should bend and not break up true the soil or be pulled up when the barrier is hit.

### 4.2 Installing the posts

The posts should be installed with a distance of 3 meters.

The holes for the posts should normally be pre-drilled or pre-rammed before installing the post. They should be drilled to the correct level or deeper, to ensure that there is no need to ram the posts after they are placed.

After alignment and height adjustment, parts of the hole around the post should be filled with gravel to lock the post in the correct position.

### 4.3 Installing the front tubes

The longitudinal tubes have rectangular holes placed with different distance from the ends. They must be installed with the shortest distance after the post. For details regarding connection between post to tube and tube to tube, see chapter 8. Drawings.

#### 4.4 After installation

When the guardrail is installed and adjusted, the holes around the post should be fully refilled.

### 5. Maintenance

There are no general inspections intervals for this guardrail itself. Inspections intervals have to be determined based on local factors such as volume of traffic, risk of damage, climate etc.

The guard rail should be inspected regularly and if displaced or damaged, it should be adjusted and repaired.

All damaged profiles should be replaced with new when repaired.

#### 5.1 Cleaning

Cleaning can be done with water and any type of Ph neutral detergent.

### 6. List of components

| Art.no  | Pos. no. | Description                                | Detail drw. |
|---------|----------|--|-------------|
| 5132110 | 1        | SAFELINE POST Ø101, ONE SIDED              | T-0204      |
| 5132200 | 2        | FRONT TUBE, TUBE Ø89 L= 6 M.               | T-0173      |
| 5111520 | 3        | CONNECTION TUBE Ø80, FRONT TUBE            | T-0126      |
| 4116104 | 4        | FLATHEAD BOLT M16X104 INCL. NUT AND WASHER | T-0419      |
| 9266    | 5        | PLASTIC BRACKET FOR T-BOLT, FRONT TUBE     | T-0166      |
| 4110034 | 6        | T-BOLT M10X35 4.6VZN                       | T-0112      |
| 4110035 | 7        | FLANGE NUT M10                             | T-0189      |
| 9289    | 8        | PLASTIC CAP FOR POST Ø101                  | T-0146      |

**Note:** Please check that all bolts/fasteners are placed correct and all bolts-washer-nuts-connections are normally/proper fastened/tighten.

### 7. Marking

If everything is done and installed according to this installation manual, the guardrail can be marked with the CE-mark. This mark shall be placed at the end (the starting end) of the installed guardrail.

8. Drawings

