

VIK Veg N2

A-profile barrier with w-shaped backside beam, installed on Sigma posts Installation manual



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Leverandør:

Vik:
Elvagata 20
6893 Vik i Sogn

Tlf: +47 57 69 86 50
firmapost@vikorsta.no

Ørsta:
Strandgata 59
6150 Ørsta

Tlf: +47 70 04 70 00
firmapost@vikorsta.no

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1. Important

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

2. Description

The Vik Veg N2 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 sigma steel posts with post distance of 2 meters and a longitudinal 3mm high strength steel guard rail A-profile with W-shaped backside beam.

In a collision the system is designed in such a way that the A-profile (incl. backside beam) will break away from the post and stop the vehicle or/and lead it back on the road again.

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 [W]	Dynamic deflection	Impact severity level
2m	N2	0,9 m (W3)	0,9 m	B

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 2 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.

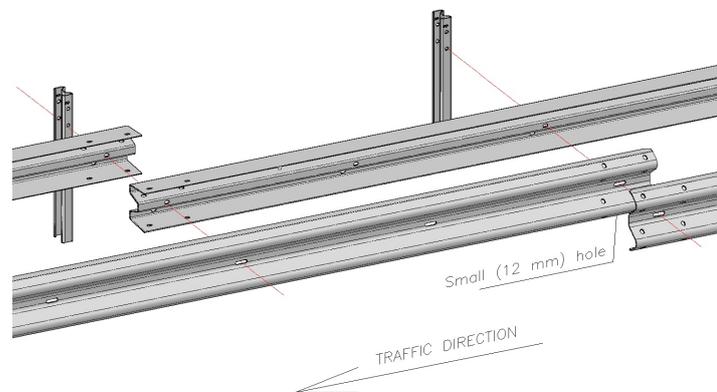
4.3 Installing the profiles

The guardrail profiles (a-profile) and the W-shaped backside beam have one wide end and one narrow end. The narrow end of the a-profile is marked with a small (8mm) hole.

When connecting the profiles:

- A-profile: the wide end of the profile is placed outside the narrow end of the following barrier
- W-shaped backside beam: the narrow end of the profile is placed outside the wide end of the following beam

in the direction of traffic.



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.

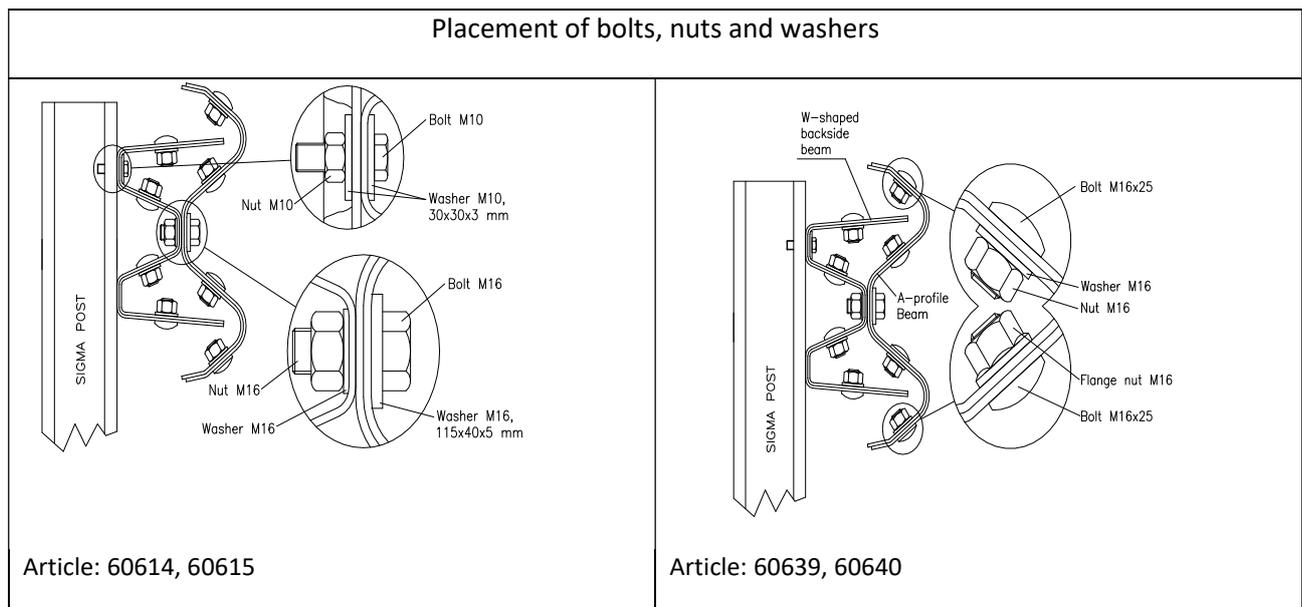
All damaged profiles should be replaced with new when repaired.

5.1 Cleaning

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

6. Bolts and fasteners

Art. nr.	Description	Amount
60614	Fastening bolt M16x40 mm (hot dip galvanized)	
	933316040 Bolt M16x40	1
	60643 Nut M16	1
	60981 Washer M16, 115x40x5	1
	60642 Washer M16, 17/30	1
60615	Fastening bolt M10x40 mm (hot dip galvanized)	
	601310040 Bolt M10X40	1
	934310000 Nut M10	1
	60984 Washer M10,30x30x3	2
60639	Connecting bolt M16x25 mm (hot dip galvanized)	
	60641 Bolt M16x25	1
	692316000 Flange nut M 16	1
60640	Connecting bolt M16x25 mm (hot dip galvanized)	
	60641 BoltM16x25	1
	60643 Nut M16	1
	60642 Washer M16	1

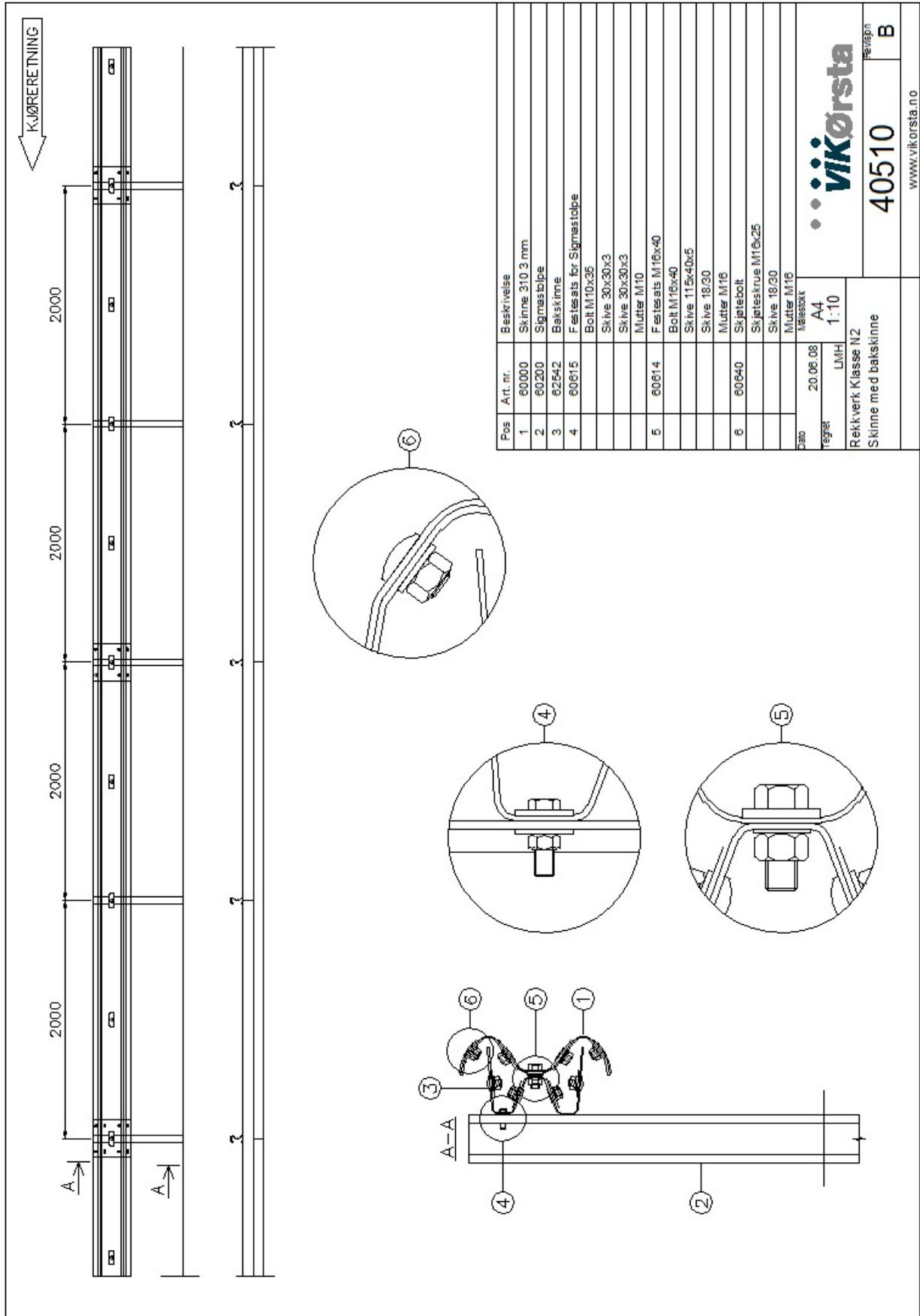


Note: Please check that all bolts/fasteners are placed correct and all bolts-washer-nuts-connections are normally/proper fastened/tighten.

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. Drawing



Pos	Art. nr.	Beskrivelse
1	60000	Skinne 310 3 mm
2	60200	Sigmaslippe
3	62542	Bakskinne
4	60615	Festesats for Sigmaslippe
		Bolt M10x36
		Skive 30x30x3
		Skive 30x30x3
		Mutter M10
5	60614	Festesats M16x40
		Bolt M16x40
		Skive 115x40x5
		Skive 18/30
		Mutter M16
6	60640	Sjålebolt
		Sjålestreue M16x25
		Skive 18/30
		Mutter M16
		Mønstrekk
Dato	20.06.08	
Tegner	A4	
	LMH	
	1:10	
Rekkverk Klasse N2		Revisjon
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		www.vikørsta.no

