

VIK-SVV 1 Parapet

H2 W4 Parapet

Installation manual



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1. Important

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

2. Description

The VIK-SVV 1 is a steel bridge restraint system that is designed to enhance safety on the bridges. The system has successfully been tested according to classes H2 described in EN 1317-2. The system is based on tube formed profiles with post distance of 2 meters.

3. Level of performance

According to EN-1317

Post distance	Containment level	Working width [W]	Dynamic deflection	Impact severity level
2 m	H2	1,2m/W4	0,8 m	B

4. List of components

For list of components, see drw. no. SVV1-010

5. General dimensions, placement, heights and anchor bolts

For instruction about anchor bolts, dimensions and placement, please see Statens Vegvesen handbook 268.

Recommended anchor bolts: M24 8.8 / M24 A4 80

6. Installing the VIK-SVV 1 parapet

6.1 Installing the post

The posts should be installed with a nut and washer on both sides of the base plate on each anchor bolt, see drw. no. SVV1-010. The height and alignment of the installed parapet can then be adjusted by altering the heights of these nuts.

6.2 Installing the handrail

The handrails have predrilled holes for connection to the top plate on the posts. The M20x40 bolts are used to connect the handrail to the post. See drw. no. SVV1-020, detail 1.

6.3 Connecting the handrails

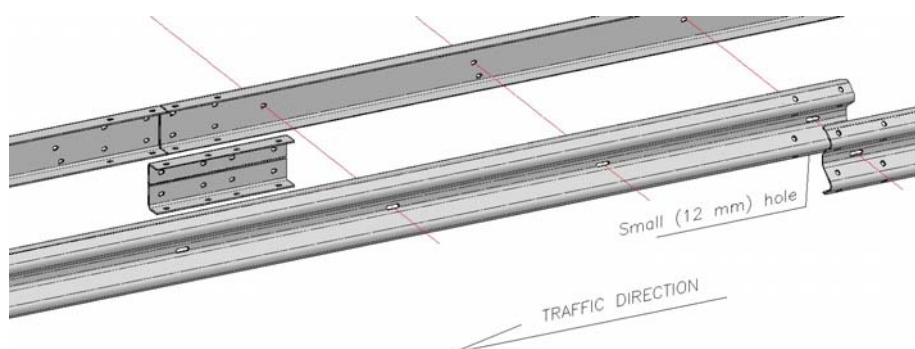
The handrails are connected to each other by using the handrail connecting bar, placed on the underside of the handrail. The connection bar is locked in place by the M20x60 bolts, see drw. no. SVV1-020, detail 2.

6.4 Installing the front elements (U-shaped backside beam and A-profile beam)

The front elements including the three following elements:

1. Energy absorption box: This box is connected to the posts with M16x40 bolts, see drw. no. SVV1-010, section B:B
2. U-shaped backside beam: The beam is connected to the energy absorption box with M16x40 bolts, see drw. no. SVV1-010, section B:B. The beams are connected to each other with an two angles of steel and M16 bolts, see drw. no. SVV1-010, section B:B
3. A-profile beam: The beams are connected to the U-shaped backside beam with M16x40 bolts, see drw. no. SVV1-010, sections B:B. Distance between bolts, 1 meters.

Note: When connecting the A- profiles, the wide end of the profile is placed outside the narrow end of the following barrier in the direction of traffic. See drawing below.



6.5 Horizontal panel

This panel is placed between the posts. The panel is fixed to the post with an angle of steel and M16 bolts, see drw. no. SVV1-020, detail 3.

6.6 Bolts/fasteners

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

7. Maintenance

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

The parapet should be inspected regularly and if displaced or damage, it should be adjusted and repaired.

All damage profiles should be replaced with new when repaired.

7.1 Cleaning

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

8. 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.

9. Drawing

Pos	Art. nr.	Materialtype	Kapl.	Vekt	Arm
21	62322	Endeavsl. SVV venstre foppl. Ø24		54,1	
(20)	62301	Rektiv. stole SVV foppl. Ø28		31,9	
20	62300	Rektiv. stole SVV foppl. Ø24		31,9	
19	62363	Sprossespann SVV lavt for kantbr.		35,6	
18	62380	Sprossespann SVV høyt for kantbr.		48,1	
17	62362	Panel brytelett SVV for kantbr.		23,3	
(16)	62327	Endeavsl. SVV kandr. venstre foppl. Ø28		49,3	
(16)	62326	Endeavsl. SVV kandr. høyre foppl. Ø28		49,3	
16	62324	Endeavsl. SVV kandr. høyre foppl. Ø24		49,3	
15	60807	Festskruer M16x50 Vz. kpl.		0,2	
14	62400	Skrue 4tt. M16x40 Vz. kpl.		0,2	
(13)	62336	Brakett for SVV1/SVV2		0,7	
12	62350	Panel SVV KF U60x40x3, L= 1940		6,4	
11	60640	Sk. skruer M16x25 kpl.		0,1	
10	60981	Skrue M16 116x40x5		0,2	
9	60805	Festskruer M16x40 kpl.		0,1	
8	62420	Skrue 4tt. M20x60 Vz. kpl.		0,3	
(7)	60005	Skinn 310 L= 2,0 m		26,2	
7	60000	Skinn 310 L= 4,0 m		49,3	
(6)	62371	U-bakskinnestid. L=1980		26,5	
6	62370	U-bakskinnestid. L=3980		54,1	
5	62419	Skrue 4tt. M20x40 Vz. kpl.		0,2	
4	62348	Skjulteplakk for håndst.		8,5	
(3)	62342	Håndst.KFU 120x60x5. L=1980		18,5	
(3)	62341	Håndst.KFU 120x60x5. L=3980		37,5	
3	62340	Håndst.KFU 120x60x5. L=5980		56,0	
(2)	62307	Støpe for kantdrager m/foppl. hull Ø28		27,9	
2	62306	Støpe for kantdrager m/foppl. hull Ø24		27,9	
(1)	62086	Bollegruppe 140x140. M24x430. A4		8,0	
1	62074	Bollegruppe 140x140. M20x430. A4		3,2	

Pos	Art. nr.	Materialtype	Kapl.	Vekt	Arm
23	62378	Skjulteplakk for U-bakskinne		4,2	
22	62349	U-bakskinn SVV 100x100 f/bakskinne		1,7	
(21)	62321	Endeavsl. SVV høyre foppl. Ø28		54,1	
(21)	62320	Endeavsl. SVV høyre foppl. Ø24		54,1	
(21)	62323	Endeavsl. SVV venstre foppl. Ø28		54,1	

VEDLIKEHOLD
 Skrede: Ingen reparasjon
 Skrede med sær. opprill i traf.: Ingen reparasjon
 Riper etter knøyestyrer etc.: Ingen reparasjon
 Ved større skoder: Berørte rørt og spray med kaldt vann / ZINGA

DYVERTLATE
 Alt interjelli er vortmonstrert i henhold til NS-EN 131 1461

Detailj 1 tegn. nr. SV1-010

Detailj 2 tegn. nr. SV1-010

Detailj 3 tegn. nr. SV1-010

Detailj 4 tegn. nr. SV1-010

Detailj 5 tegn. nr. SV1-010

Detailj 6 tegn. nr. SV1-010

Detailj 7 tegn. nr. SV1-010

(20)		Rekky. stole SVV f/tpkl. Ø28		31,9		
20		Rekky. stole SVV f/tpkl. Ø24		31,9		
19		Sprosspanel SVV/avt for kantro.		35,6		
18		Sprosspanel SVV/avt for kantro.		46,1		
17		Panel brøyterett SVV/fkantro.		23,3		
15		Festeskruer M16x50 Vz. kpl.		0,2		
14		Skrue 4kt. M16x40 Vz. kpl.		0,2		
13		Brakett for SVV/SV2		0,7		
12		Panel SVV/KFU 60x40x3, L= 1940		6,4		
11		Sk. skruer M16x25 kpl.		0,1		
10		Skive M16 115x40x5		0,2		
9		Festeskruer M16x40 kpl.		0,1		
8		Skrue 4kt. M20x60 Vz. kpl.		0,3		
5		Skrue 4kt. M20x40 Vz. kpl.		0,2		
4		Skjeteleak for håndlist		8,5		
3		Håndlist KFU 120x60x5, L=5980		56,0		
2		Støpe for kandrager m/fstp. hull Ø24		27,9		
Pos	Ant.	Art. nr.	Materialtype	Kapl.	Vekt	Anm.
13 mai. 2013		JHS	Målestokk			
13 mai. 2013		Boogant	A3			
KJØRESTERKT BRUEREKKEVÆRK TYPE						
SVV1						
Detailer 1-7						
Referanse: SVV1-020						
Revisjon: A						