

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction products

## Road restraint systems - Part 5: Product requirements and evaluation of conformity for vehicle restraint systems

Safety barriers for use in vehicle restraint system in circulation areas, with specification and performance as specified on page 2-5 in this certificate.

### Product name: : SafeLine-R and SafeLine-R L2

placed on the market under the name or trademark of

#### VIK Ørsta AS

Postboks 193  
NO-6150 Ørsta, Norway

and produced in the manufacturing plants

VV, VO, 30004, 30077, 30092, 31222, 31548, 32816 and 32964

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in annex ZA of the standards

### EN 1317-5:2007+A2:2012 and EN 1317-5:2007+A2:2012/AC:2012

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

### constancy of performance of the construction product.

This certificate was first issued on 2019-07-05 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Issued by notified body 0402.

The validity of this certificate can be verified at RISE homepage.



Martin Tillander  
Director Product Certification

## Specification

Product	Description and configuration
<b>SafeLine-R N2-W3-cc4</b> <b>SafeLine-R N2-W4-cc6</b>	<p>Post distance: 4.0 m or 6.0 m</p> <p>Height from road surface: 0.76 m (total), 0.46 m (centre of lower rail)</p> <p>Rails: Top- and lower rail: Ø 88.9, thickness 2.9 mm Material: S355</p> <p>Steel post: Bolt joint: 4×M16 either vertical or angled 20° C 100 × 60 × 25 mm, thickness 4 mm Length min 1.545 m, driven in soil min 0.80 m, 0.716 m including base plate Material: S355</p> <p>BasePlate: Circular key bolt holes with diameter 14 mm Plate 200 × 200 × 20 mm (thickness of 20 mm is a minimum) Holes for anchoring bolts Ø 27 mm. Anchoring bolts minimum 4 × M20, 140 × 140 placement. Steel S355 Steel tape 44 × 3 mm Steel S235</p> <p>-----</p> <p>Handrail, option for cc 4 m</p> <p>Height from road surface: 1.2 m (total)</p> <p>Steel rail, handrail: Ø 88.9 mm, thickness 2.9 mm</p>
<b>SafeLine-R H1-W3-cc4</b>	<p>Post distance: 4.0 m</p> <p>Height above road surface: 0.79 m (total), 0.49 m (centre of lower rail)</p> <p>Steel rail: Top- and lower rail: Ø 88.9, thickness 2.9 mm Material: S355</p> <p>Steel post dimensions: Bolt joint: 6×M16 either vertical or angled 20° C 100 × 60 × 25 mm, thickness 4 mm Length 1.545 m, driven in soil min 0.77 m Length 0.746 m including base plate Length 0.646 m for plinth height 0-100 mm Material: S355</p> <p>Baseplate: Either circular (as for N2) or oval/key bolt holes with diameter 14 mm Plate 200 × 200 × 20 mm (thickness of 20 mm is a minimum) Holes for anchoring bolts Ø 27 mm. Anchoring bolts minimum 4 × M20, 140 × 140 placement. Steel S355 Steel tape 44 × 3 mm Steel S235</p>

<p><b>SafeLine R H2-W5-cc2</b></p>	<p>Post distance: 2.0 m            Height above road surface: 0.85 m (total), 0.55 m (centre of lower rail)            Steel rail: Top- and lower rail: Ø 88.9, thickness 3.6 mm            Material: S355            Bolt joint: 6×M16 either vertical or angled 20°            Steel post: C 100 x 60 x 25 mm, thickness 4 mm            Length min 1.715 m, driven in soil min 0.88 m            Length 0.806 m including base plate            Material: S355            Bolt joint: 6×M16 either vertical or angled 20°            BasePlate: Plate 200 × 200 × 20 mm (thickness of 20 mm is a minimum)            Holes for anchoring bolts Ø 27 mm. Anchoring bolts minimum 4 × M20, 140 × 140 placement.            Steel S355            Steel tape 44 × 3 mm            Steel S235</p>
<p><b>SafeLine-R L2 cc2</b></p>	<p>Height above road surface: 0.8 m (total), 0,626 m (centre horizontal rails)            Post distance: 2.0 m            Steel post dimension: Main post c-profile: 120 × 80 × 25 mm            Thickness: 5mm            Length:            -for soil: 1.636 m, driven in soil 0.85 m            -for angled feet baseplate 0-100 mm plinth: 0.756-0.656 m            Material: S355            Steel rail: Top- and lower rail: Ø 88.9 mm            Thickness: 3.6 mm            Length: 1996, 3996 or 5996 mm            Material: S355            Bolt joint: 6×M16 either vertical or angled 20°            Baseplate: Plate 200 × 200 × min 20 mm            Holes for anchoring bolts max Ø27 mm            Anchoring bolts min 4 × M20, 140 × 140 placement            Material: Steel S355            Steel tape 44 × 3 mm            Material: Steel S 235            Angled feet baseplate for 0-100 mm plinth height            Two welded L profiles 200 × 60 × 40 mm            Thickness: 8 mm            Material: S355            Min M20 bolts 8.8/A4-80</p>

## Performance

Classification according to EN 1317-5:2007+A2:2012/AC:2012 (EN 1317-2:2010)

Product	Containment level	Impact severity level	Normalized working width, class [m]	Normalized dynamic deflection, [m]	Normalized Vehicle intrusion, class [m]
SafeLine-R N2-W3-cc4	N2	A	W3 (1.0)	0.9	NA
SafeLine-R N2-W3-cc4 with baseplate	N2	A	W3 (1.0)	1.0	NA
SafeLine-R N2-W3-cc4 with handrail	N2	A	W3 (1.0)	0.8	NA
SafeLine-R N2-W3-cc4 with vertical joint bolts	N2	A	W3 (1.0)	0.9	NA
SafeLine-R N2-W4-cc6	N2	A	W4 (1.3)	1.1	NA
SafeLine-R N2-W4-cc6 with baseplate	N2	A	W4 (1.3)	1.3	NA
SafeLine-R N2-W4-cc6 with vertical joint bolts	N2	A	W4 (1.3)	1.1	NA
SafeLine-R H1-W3-cc4	H1	A	W3 (1.0)	0.9	VI4 (1.3)
SafeLine-R H1-W3-cc4 with baseplate	H1	A	W3 (1.0)	0.9	VI4 (1.3)
SafeLine-R H1-W3-cc4 with baseplate on plinth	H1	A	W3 (0.8)	0.7	VI4 (1.0)
SafeLine-R H1-W3-cc4 with vertical joint bolts	H1	A	W3 (1.0)	0.9	VI4 (1.3)
SafeLine R H1 W3 with changed bolt holes in post cc 4.0 m	H1	A	W3 (0.9)	0.7	VI4 (1.3)
SafeLine R H2-W5-cc2	H2	A	W5 (1.6)	1.5	VI6 (1.9)
SafeLine R H2-W5-cc2 with baseplate	H2	A	W5 (1.7)	1.6	VI6 (1.9)
SafeLine R H2-W5-cc2 with vertical joint bolts	H2	A	W5 (1.6)	1.5	VI6 (1.9)
SafeLine-R L2-cc2*	N2	A	W2 (0.7)	0.6	NA
SafeLine-R L2-cc2 with baseplate	N2	A	W2 (0.7)	0.6	NA

SafeLine-R L2-cc2 with vertical joint bolts	N2	A	W2 (0.7)	0.6	NA
SafeLine R L2 with angled feet baseplate on 0-100 mm plinth cc 2.0 m	N2	A	W2 (0.6-0.7) *	0.5	NA
SafeLine-R L2-cc2*	H2	A	W4 (1.3)	1.2	VI5 (1.5)
SafeLine-R L2-cc2 with baseplate	H2	A	W4 (1.2)	1.1	VI5 (1.4)
SafeLine-R L2-cc2 with vertical joint bolts	H2	A	W4 (1.3)	1.2	VI5 (1.5)
SafeLine R L2 with angled feet baseplate on 0-100 mm plinth cc 2.0 m	H2	A	W4 (1.0-1.1) *	0.9-1.0*	VI5 (1.3)
SafeLine-R L2-cc2*	L2	A	W4 (1.3)	1.2	VI5 (1.5)
SafeLine-R L2 with baseplate	L2	A	W4 (1.2)	1.1	VI5 (1.4)
SafeLine-R L2-cc2 with vertical joint bolts	L2	A	W4 (1.3)	1.2	VI5 (1.5)
SafeLine R L2 with angled feet baseplate on 0-100 mm plinth cc 2.0 m	L2	A	W4 (1.0-1.1) *	0.9-1.0*	VI5 (1.3)

\*value depending on plinth height

Classification according to EN 1317-5:2007+A2:2012/AC:2012 (EN 1317-2:2010)

Product	Durability	Resistance to snow removal class
SafeLine-R	Hot dip galvanized, acc. To EN ISO 1461	Class 4
SafeLine-R L2	Hot dip galvanized, acc. To EN ISO 1461	Class 4