



Certificate of constancy of performance

0402 - CPR – SC0221-16

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

Road restraint system – Safety barrier
for use in restraint system for circulation areas,
as specified in appendix to this certificate.

**Product name: Nordic K N2, Nordic SF N2, Nordic SF H2 High, Nordic W N2
and Nordic W H2**

placed on the market under the name or trademark of

Nordic Road Safety AB
Svetsarvägen 4, SE-861 36 Timrå
Sweden

and produced in the manufacturing plants

same as above and at factories NRS1 and NRS2

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 2016-04-20 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are modified significantly, unless suspended or withdrawn by the notified product certification body.

2017-02-10

SP Technical Research Institute of Sweden
Certification, Notified Body No. 0402

Johan Åkesson
Product Certification Manager

Linda Ring Thorén
Certification officer

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Road restraint system- Safety barrier,

Nordic K N2, Nordic SF N2, Nordic SF H2 High, Nordic W N2 and Nordic W H2

Intended use: vehicle restraint system in circulation areas.

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]
Nordic K N2* CC 2 m	N2	A	W5 (1.7)	1.5	NA
Nordic K N2* CC 4 m	N2	A	W6 (2.0)	1.9	NA
Nordic SF N2* CC 4 m	N2	A	W3 (1.0)	1.0	NA
Nordic SF H2 High* CC 2m h= 1.2 m Raised edge beam 100 mm Post with base plate	H2	B	W2 (0.8)	0.5	VI3(0.9)
Nordic SF H2 High CC 2m h=1.2 m Roadway level Post with base plate	H2	B	W2 (0.8)	0.6	VI3(0.9)
Nordic SF H2 High CC 2m h=1.2 m Roadway level Post In soil	H2	B	W2 (0.8)	0.6	VI3(0.9)
Nordic SF H2 High CC 2m h=1.4 m Raised edge beam 100 mm Post with base plate	H2	B	W2 (0.8)	0.6	VI3(0.9)
Nordic SF H2 High CC 2m h=1.4 m Roadway level Post with base plate	H2	B	W2 (0.8)	0.6	VI3(0.9)
Nordic SF H2 High CC 2m h=1.4 m Roadway level Post In soil	H2	B	W2 (0.8)	0.6	VI3(0.9)

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Product	Containment level	Impact severity level	Normalized working width, class (m)	Normalized dynamic deflection, [m]	Normalized vehicle intrusion class, [m]
Nordic W N2* CC 2 m	N2	A	W4 (1.1)	0.9	NA
Nordic W N2* CC 4 m	N2	A	W5 (1.7)	1.5	NA
Nordic W H2* CC 1.8 m, h= 1.2 m Raised edge beam Post casted in concrete	H2	B	W3 (1.0)	0.8	VI3(1.0)
Nordic W H2 CC 1.8 m, h= 1.2 m Roadway level Post with base plate	H2	B	W3 (1.0)	0.8	VI3(1.0)
Nordic W H2 CC 1.8 m, h= 1.2 m Raised edge beam Post with base plate	H2	B	W3 (1.0)	0.7	VI3(0.9)
Nordic W H2 CC 1.8 m, h= 1.2 m Roadway level Post In soil	H2	B	W3 (0.9)	0.8	VI3(1.0)
Nordic W H2 CC 1.8 m, h= 1.4 m Raised edge beam Post with base plate	H2	B	W3 (1.0)	0.8	VI3(0.9)
Nordic W H2 CC 1.8 m, h= 1.4 m Roadway level Post with base plate	H2	B	W3 (1.0)	0.9	VI3(0.9)
Nordic W H2 CC 1.8 m, h= 1.4 m Roadway level Post In soil	H2	B	W3 (1.0)	0.9	VI3(1.0)

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Classification according to EN 1317-5:2007+A2:2012/AC:2012

Product	Durability	Resistance to snow removal class
Nordic K N2	Hot dip galvanized, acc. To EN ISO 1461	Class 4
Nordic SF N2 and H2 High	Hot dip galvanized, acc. To EN ISO 1461	Class 4
Nordic W N2	Hot dip galvanized, acc. to EN ISO 1461	Class 3
Nordic W H2	Hot dip galvanized, acc. to EN ISO 1461	Class 3

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Product description and configuration

Product	Description
Nordic K N2 CC 2 m/4m	Post distance: 2.0 m or 4.0 m Height above road surface: 0.63 m (total), 0.55 m (centre of rail) Rail: K-profile
	Mounting alternative Post embedment: min: 0.8 m, acceptable variation 0.8 -1.33 m Steel post: length: 1420 mm, acceptable variation 1420-1950 mm, Sigma profile
Nordic SF N2 CC 4m	Post distance: 4.0 m Height above road surface: 0.69 m (total), 0.58 m (centre of rail) Rail: W- profile Mounting alternative
	Post embedment: min: 0.8 m Steel post: length: 1445 mm, C- profile
Nordic SF H2 High CC 2m	Post distance: 2.0 m Height above road surface: 1.2 m/1.4 m (total), 0.58 m (centre of rail) Rail: W- profile Steel post: profile 55 × 55 mm Top Guide: 120 × 80 × 5 mm Base plate: 210 × 210 × 25 mm Steel tube: length 1200 mm, Ø 127 × 6 mm
	Height 1.2 m
	Mounting alternative Base plate: Edge beam height 100 mm or road level Post embedment in soil: min 1.2 m Steel post length: 1031, 1131, 1181 mm Infillings: area 1000 × 171, 1120 × 92 mm* placed from centre of post away from road
	Height 1.4 m
	Mounting alternative Base plate: Edge beam height 100 mm or road level Post embedment in soil: min 1.2 m Steel post length: 1231, 1331, 1381 mm Infillings: area 1000 × 252, 1320 × 82 mm* placed from centre of post away from road
	*Infillings width can increase in the lower area provided that the working width limit is not exceeded and not adding stiffness to the parapet.

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Product description and configuration

Product	Description
Nordic W N2 CC 2 m/4m	Post distance: 2.0 m or 4.0 m Height above road surface: 0.70 m (total), 0.55 m (centre of rail) Rail: W- profile
	Mounting alternative Post embedment: min: 0.8 m, acceptable variation 0.8 -1.24 m Steel post: length: 1420 mm, acceptable variation 1420-1950 mm, Sigma profile
Nordic W H2 CC 1.8 m	Post distance: 1.8 m Height above road surface: 1.2 m/1.4 m (total), 0.55 m (centre of rail) Rail: W- profile Top guide: U-profile
	Height 1.2 m
	Steel post: length: 1040, 1140, 1170 and 1370 mm profile: 55 × 55 mm
	Mounting alternative Post embedment in concrete: min: 0.28 m Post embedment in soil: min: 1.2 m
	Base plate: plate: 210 × 210 × 25 mm
	Steel tube: length: 1200 mm, profile: Ø 127 × 6 mm Infillings: area: 1145 × 120, 1000 × 279 mm placed from centre of post away from road
	Height 1.4 m
	Steel post: length: 1240, 1340 and 1370 mm profile: 55 × 55 mm
Mounting alternative: Post embedment in soil: min: 1.2 m Base plate: plate: 210 × 210 × 25 mm Steel tube: length: 1200 mm, profile: Ø 127 × 6 mm Infillings: area: 1345 × 105, 1000 × 387 mm placed from centre of post away from road	