

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 product

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 specifications and performances as specified on page 2-5 in this certificate.

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

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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Issued by notified body 0402

The validity of this certificate can be verified on our website.

Lennart Aronsson
Product Certification Manager

Martin Tillander
Project Manager

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8P01786



Specification

Product	Description and configuration
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, \varnothing 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
Nordic SF H2 High CC 2m	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.
	Height 1.2 m
	Height 1.4 m
	Height 1.6 m
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 High CC 2.0 m	Height above road surface: 1.2 m (total), 0.575 m (center of rail) Post distance: 2.0 m Steel post base plate: "Test Post" * "CE Post" Steel post dimensions: 365 × 340 mm, thickness 25 mm (offset post) 210 × 210 mm, thickness 25 mm (center post) Edge beam height: Square 60 mm, thickness 8 mm Length 1.04 m Steel rail: 0.10 m Rectangular 120 × 80 mm, thickness 5 mm



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Product	Description and configuration
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
Nordic R H2 High CC 2.0 m,	Height above road surface: 1.2 m (total), 0.465 m (centre of lower rail) Post distance: 2.0 m Steel post base plate: "Test Post" * "CE Post" 365 × 340 mm, thickness 25 mm (offset post) 210 × 210 mm, thickness 25 mm (center post) Steel post dimensions: Square 60 mm, thickness 8 mm Length 1.04 m Edge beam height: 0.10 m Steel rail: Top rail: Rectangular 120 × 80 mm, thickn. 5 mm Lower rails: 2 Tubes, Ø88.9 mm, thickn. 3.2 mm
Nordic R N2 CC 4.0 m	Height above road surface: 0.73m (total), 0.465 m (center of lower rail) Post distance: 4.0 m Post embedment: 0.8 m Steel post dimensions: C-profile 120 × 65 mm, thickness 4 mm Length 1.515 m Steel rail: 2 Tubes, Ø88.9 mm, thickness 2.6 mm
Nordic M N2 CC 4.0 m	Post distance: 4.0 m, mounted in ground tubes Height from road surface: 0.6 m (total), 0.55 m (Center of rail) Rail: 1 open beam ellipse shape, thickness 3 mm Steel post: Length: 885 mm, open rectangular C profile 108 × 48 mm, thickness 4 mm



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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]
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)
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 High CC 2.0 m	H2	B	W2 (0.7)	0.5	VI4 (1.1)
Nordic W H2* CC 1.8 m, h= 1.2 m Raised egde beam Post casted in concrete	H2	B	W3 (1.0)	0.8	VI3(1.0)

*ITT



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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]
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)
Nordic R H2 High CC 2.0 m	H2	B	W2 (0.7)	0.5	VI3 (1.0)
Nordic R N2 CC 4.0 m	N2	A	W3 (0.9)	0.8	N/A
Nordic M N2 CC 4.0 m	N2	A	W4 (1.3)	1.1	N/A

*ITT

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

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



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