

Certificate of constancy of performance 0402-CPR-SC0221-16

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 specifications and performances as specified on page 2-14 in this certificate.

Product name: Nordic K N2, Nordic SF N2, Nordic SF H2 High, Nordic W N2, Nordic W N2+, Nordic W N2-H1-L1 Green, Nordic W N2H2L2 Low+, Nordic W H2 High, Nordic W H2, Nordic W N2 GC, Nordic R H1, Nordic R H2 High, Nordic R H2 Low, Nordic R N2, Nordic R N2 GC, Nordic R H4b, Nordic R H4b Ground, Nordic M N2, Nordic M H1, Nordic M H1 v2 and Nordic M H2

placed on the market under the name or trademark of

Nordic Road Safety AB

Årvältsvägen 18 SE-861 36 Timrå, Sweden

and produced in the manufacturing plants same as above and at factories NRS4, NRS6, NRS7, and NRS9

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the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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

Martin Tillander Director Product Certification

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RISE Research Institutes of Sweden AB | Certification

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Specification

Product	Description and configuration	
	Post distance:	2.0 m or 4.0 m
	Height above road surface:	0.63 m (total), 0.55 m (centre of rail)
Nordic K N2	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

Product	Description and configuration	
Nordic SE N2	Post distance: Height above road surface: Rail: Mounting alternative	4.0 m 0.69 m (total), 0.58 m (centre of rail) W- profile
CC 4m	Steel post:	C- profile Length: -for soil: 1.445 m, driven in soil 0.8 m -for baseplate: 0.567
Nordic SF H2 High CC 2m	Post distance: Height above road surface: Rail: Steel post Top Guide: Base plate: Steel tube Height 1.2 m Mounting alternative Base plate Post embedment in soil: Steel post length: Infillings:	$\begin{array}{r} 200 \times 150 \times 16\mathrm{hm} \\ \hline 2.0\mathrm{m} \\ 1.2\mathrm{m}/1.4\mathrm{m} \mbox{ (total), } 0.58\mathrm{m} \mbox{ (centre of rail)} \\ W-\mathrm{profile} \\ profile 55 \times 55\mathrm{mm} \\ 120 \times 80 \times 5\mathrm{mm} \\ 123 \times 88 \times 5\mathrm{mm} \\ 210 \times 210 \times 25\mathrm{mm} \\ ength 1200\mathrm{mm}, \mbox{\emptyset 127 \times 6\mathrm{mm}$} \\ \hline \\ Edge \mbox{ beam height } 100\mathrm{mm} \mbox{ or road level} \\ min 1.2\mathrm{m} \\ 1031, 1131, 1181\mathrm{mm} \\ area 1000 \times 171, 1120 \times 92\mathrm{mm}^* \\ placed \mbox{ from centre of post away from road} \\ \hline \end{array}$
	Height 1.4 m	
	Mounting alternative Base plate Post embedment in soil: Steel post length: Infillings:	Edge beam height 100mm or road level min 1.2m 1231, 1331, 1381mm area 1000 × 252, 1320 × 82mm* 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	
Nordic W N2	Post distance: Height above road surface: Rail:	2.0 m or 4.0 m 0.70 m (total), 0.55 m (centre of rail) W- profile
CC 2.0 m / 4.0 m	Mounting alternative Post embedment: Steel post:	min: 0.8 m, acceptable variation 0.8 -1.24 m length: 1420 mm, acceptable variation 1420- 1950 mm, Sigma profile
Nordic W N2+ CC 4.0 m	Post distance: Height above road surface: Rail: Mounting alternative Steel post: Post length:	4.0 m 0.73 m (total) W profile 307 × 85 × 4300 mm, thickness 3 mm Sigma profile 100 × 55 × 16 mm, thickness 4mm 1420mm, driven into ground min 0.8 m
Nordic W N2-H1- L1 Green CC 5.0 m	Post distance: Height above road surface: Rail: Mounting alternative Steel post: Base plate:	5.0 m 0.730 m (total), 0.575 m (centre of rail) W- profile C-profile 120 × 65 ×26 mm, thickness 4 mm Length: -for soil: 1.445 m, driven in soil 0.80 m -for baseplate: 0.567 m 260 × 150 × 16 mm
Nordic W N2H2L2 Low+ CC 1.33 m	Post distance: Height above road surface: Rail: Steel post: Post stiffer:	1.33 m 0.73 m (total) W profile 307 × 85 × 4300 mm, thickness 3 mm C Post 120 × 65 × 26 mm, thickness 4 mm, Length: -for soil: 1.445 m, driven 0.80 m C 109 × 50 × 22 mm, thickness 4 mm, Length 0.35 m driven into soil 0.2 m
Nordic W H2 High CC 1.8 and 2.0 m	Height above road surface: Post distance: Steel post base plate: "Test Post" * "CE Post" Steel foundation: Steel post dimensions: Length with Edge beam +100 mm: -100 mm: 0 mm: Edge beam height: Steel rail:	 1.2 m (total), 0.575 m (center of lower rail) 1.4 m (total), 0.575 m (center of lower rail) 2.2 m including noise barrier wood screen 3.0 m including noise barrier PC-plate 3.5 m including suicide protection 1.8 and 2.0 m 365 × 340 mm, thickness 25 mm (offset post) 210 × 210 mm, thickness 25 mm (center post) Ø127, thickness 6 mm, length=1.2 m Square 60 mm, thickness 8 mm 1040 mm, 1240 mm 1240 mm, 1440 mm 1140 mm, 1340 mm -0.10 m, 0 m, 0.10 m Top rail: Rectangular 120 × 80 x 5 mm Lower rail: W-profile 306 × 83 x 3 mm

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		For parapet alternative: All variants
	Suicide protection:	H: max 3.5 m, W=1.8 and 2.0. m
	1000-00167 rev 1 and 1000-00168 rev 1	
		Steel mesh
		Mesh size:50 x 70 mm
		Wire thickness: Ø5-8 mm
		Steel slats
		Open distance between slats: max 80 mm
		Slat alt 1:
		Profile: 20-40 x 20-50 mm, thickness 2–3.2 mm
		Slat alt 2:
		Profile: Ø21.3-48.3 mm, thickness 2–3.2 mm
		Maximum weight evenly distributed: 183 kg
		Horizontal profiles
		Alt 1: L-profile 50 x50 mm, thickness 5 mm
		Maximum weight evenly distributed: 183 kg
		Alt 2: Ø48.3 mm. thickness 3.2 mm
		Maximum weight evenly distributed: 122 kg
		Alt 3: Square profile 50 x30 mm thickness 2.5 mm
		Maximum weight evenly distributed: 160 kg
		For parapet alternative: All variants
	Noise barrier - PC plate	
	30000046 rev 0	H=max 3.05 m, W= 1.8 and 2.0 m
		12 mm Polycarbonate
		Post: UPE 80-profile
		Reinforcement L-profiles: 50 x 50 x 5 mm
		Bracket thickness 6 mm for W=2.0 m
		Bracket thickness 8 mm for W=1.8 and 2.0 m
		For parapet alternative: All variants with post
	Noise barrier - Wood screen	spacing 2.0 m
	30000045 rev 0	
	3000000431270	H=2.33 m, W=1.975 m
		Wood panel: height 110 mm, thickness 30-45 mm
		Post: L-profile 65 x 50 x 7 mm
		Bracket thickness 8 mm
		Infillings at parapet height:
		1.2 m: Area 1000 × 195 mm, 1120 × 122 mm*
		1.4 m: Area 1000 × 273 mm, 1320 × 113 mm*
		Placed from centre of post away from road
	*Infillings width can increase in the lower are	ea provided that the working width is not
	exceeded and not adding stiffness to the par	apet.
	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	
Nordic W H2	Steel post:	length: 1040, 1140, 1170 and 1370 mm
CC 1.8 m		profile: 55 × 55 mm
	Mounting alternative	
	Post embedment in concrete:	min: 0.28 m
	Post embedment in soil:	min: 1.2 m
		nlata: 210 x 210 x 25 mm

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	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
	Height above road surface:	1.10 m (total)
	Post distance:	4.0 m
	Steel rail:	1 Tube beam, Ø88.9 mm, thickness 2.6 mm
Nordia W/ND CC		Double wave beam, 4300 × 307 × 85 mm,
		thickness 3 m
CC 4.0 m	Mounting alternative	
	Steel post:	C-profile 120 × 65 × 26 mm, thickness 4 mm
		Length:
		-for soil: 1.885 m, driven in soil 0.8 m

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Product	Description and configuration	
Nordic R H1 CC 4.0 m	Height above road surface: Post distance: Steel rail: Spacer: Mounting alternative Steel post:	0.73 m (total) 4.0 m 2 Tube beams, Ø88.9 mm, thickness 3.2 mm 120 × 90 mm, thickness 5 mm Length 280 and 180 mm C-profile 120 × 65 × 26 mm, thickness 4 mm Length: for soil 1.445 m driven in soil 0.8 m
	Height above road surface: Post distance: Steel post base plate: "Test Post" * "CE Post" Steel foundation: Steel post dimensions:	1.2 m (total), 0.465 m (centre of lower rail) 1.4 m (total), 0.465 m (centre of lower rail) 2.2 m including noise barrier wood screen 3.0 m including noise barrier PC-plate 3.5 m including suicide protection 1.8 and 2.0 m 365 × 340 mm, thickness 25 mm (offset post) 210 × 210 mm, thickness 25 mm (center post) Ø127, thickness 6 mm, length=1.2 m Square 60 mm, thickness 8 mm Length: -for steel foundation: 1.181 m or 1.381 m -for baseplate: 1.031 m, 1.131 m 1.231 m or 1.431 m
	Edge beam height: Steel rail:	-0.10m, 0 m, 0.10 m Top rail: Rectangular 120 × 80 x 5 mm Top rail: Semi -rectangular 123 × 88 x 5 mm Lower rails: 2 Tubes, Ø88.9 mm, thickness 3.2 mm
Nordic R H2 High CC 1.8 and 2.0 m	Suicide protection: 1000-00167 rev 1 and 1000-00168 rev 1	For parapet alternative: All variants H: max 3.5 m, W=1.8 and 2.0. m Steel mesh Mesh size:50 x 70 mm Wire thickness: Ø5-8 mm Steel slats Open distance between slats: max 80 mm Slat alt 1: Profile: 20-40 x 20-50 mm, thickness 2-3.2 mm Slat alt 2: Profile: Ø21.3-48.3 mm, thickness 2-3.2 mm Maximum weight evenly distributed: 183 kg Horizontal profiles Alt 1: L-profile 50 x50 mm, thickness 5 mm Maximum weight evenly distributed: 183 kg Alt 2: Ø48.3 mm, thickness 3.2 mm Maximum weight evenly distributed: 122 kg Alt 3: Square profile 50 x30 mm, thickness 2.5 mm Maximum weight evenly distributed: 160 kg
	Noise barrier - PC plate 300000046 rev 0	For parapet alternative: All variants H=max 3.05 m, W= 1.8 and 2.0 m

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		12 mm Polycarbonate
		Post: UPE 80-profile
		Painforcement Lanofiles: 50 x 50 x 5 mm
		Bracket thickness 6 mm for W=2.0 m
		Bracket thickness 8 mm for W=1.8 and 2.0 m
	Noise barrier - Wood screen	For parapet alternative: All variants with post
	30000045 rev 0	spacing 2.0 m
		H=2.33 m, W=1.975 m
		Wood panel: height 110 mm, thickness 30-45 mm
		Post: L-profile 65 x 50 x 7 mm
		Procket thicknoss 9 mm
		Infillings at parapet height:
		$1.2 \text{ m} \cdot \Delta r_{e2} = 1000 \times 195 \text{ mm} = 1120 \times 122 \text{ mm}^*$
		1.2 m . Area $1000 \times 173 \text{ mm}$, $1120 \times 122 \text{ mm}^*$
		1.4 m: Area 1000 × 273 mm, 1320 × 113 mm
		Placed from centre of post away from road
	*Infillings width can increase in the lower	r area provided that the working width is not
	exceeded and not adding stiffness to the	parapet.
	Height above road surface:	0.73m (total), 0.465 m (center of lower rail)
	Post distance:	2.0 m
	Steel rail:	2 Tubes, Ø88,9 mm thickness 3.2 mm
	Mounting alternative	
Nordic R H2 Low	Steel post dimensioner	C nuclile 120 x (E mm thickness 1 mm
CC 2.0 m	Steer post dimensions:	C-prome 120 × 65 mm, unickness 4 mm
		Length:
		-tor soil: 1.445 m, driven in soil 0.81 m
		-for base plate: 0.567 m
	Base plate:	260 × 150 × 16 mm
	Height above road surface:	0.73m (total), 0.465 m (center of lower rail)
	Post distance:	4.0 m
	Steel rail:	2 Tubes. Ø88.9 mm. thickness 2.6 mm
	Mounting alternative	
Nordic R N2	Steel nost:	C-profile 120 x 65 mm thickness 4 mm
CC 4.0 m	Steer post.	Longth:
		-for soil: 1.515 m, driven in soil 0.8 m
		-for base plate: 0.637 m
	Base plate:	260 × 150 × 16 mm
	Height above road surface:	1.10 m (total)
	Post distance:	4.0 m
	Steel rail:	3 Tube beams, Ø88.9 mm, thickness 2.6 mm
Nordic R N2 GC	Mounting alternative	
CC 4.0 m	Steel post:	C-profile 120 × 65 × 26 mm. thickness 4 mm
		Length:
		-for soil: 1 885 m driven in soil 0.8 m
	Liebt above read cut	1 E0 m /total) 0 E10 m /contant of lower (1)
	neight above road surface:	1.50 m (total), 0.510 m (center of lower fall)
		2.0 m, including Nordic BS Nordre
		≤3.5 m, including Nordic Suicide Protection
		≤5.0 m, including Nordic BS NB
		1.8 m, including screen Skuru Vertical/Angle
Nordic R H4b	Post distance:	2.0 m or 2.2 m
CC 2.0 m and 2.2 m	Steel post dimensions:	H-profile; HEB120
		Length:
		-Baseplate on edge beam (h=130 mm): 1.365 m
		-Baseplate on edge beam (h=0 mm): 1,495 m
		-Gap 50 mm footnlate to edge beam. 1 315 m
		-Basenlate on concrete foundation: 1.405 m
		Daschare on concrete toundation. 1.475 III

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Base plate:	Alternative 1: Plate: 345 × 275 mm Thickness: 30 mm Position: 45 mm post to centre bolt hole 4 bolts Alternative 2: Plate: 345 × 275 mm Thickness: 40 mm Position: 75 mm post to centre bolt hole 4 bolts Alternative 3: Plate: 450 × 450 mm Thickness: 30 mm Position: 100 mm post to centre bolt hole 6 bolts Alternative 4: Plate: 345 × 275 mm Thickness: 35 mm
	Position: 45 mm post to centre bolt hole 4 bolts
Steel rail:	3 Tubes, Ø88.9 mm, thickness 6.3 mm
 Noise barrier - Nordic BS Nordre	For parapet alternative: cc 2.0 m H=2m, W=2m 20 mm Plexiglas Post: U-profile with different flange length 25-80×120×25-80×5 mm Upper and lower U-profile 60×50×60×5 mm
Noise barrier - Nordic BS Nordre ver 2	For parapet alternative: cc 2.0 m H=2m, W=2m 20 mm Plexiglas Post: U-profile with different flange length 25- 80×120×25-80×5 mm Upper U-profile 70×50×70×5 mm Lower U-profile 60×50×60×5 mm
Suicide Protection	For parapet alternative: cc 2.0 m H: max 3.5 m Steel mesh Mesh size: 50 x 70 mm
	 Wire thickness: Ø5-8 mm Steel slats Open distance between slats: max 80 mm Slat alt 1: Profile: 20-40 x 20-50 mm, thickness 2-3.2 mm Slat alt 2: Profile: Ø21.3-48.3 mm, thickness 2-3.2 mm Maximum weight evenly distributed: 183 kg Horizontal profiles Alt 1: L-profile 50 x50 mm, thickness 5 mm Maximum weight evenly distributed: 183 kg Alt 2: Ø48.3 mm, thickness 3.2 mm Maximum weight evenly distributed: 122 kg Alt 3: Square profile 50 x30 mm, thickness 2.5 mm

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		Maximum weight evenly distributed: 160 kg
	Noise barrier - Nordic BS noise barrier	For parapet alternative: cc 2.0 m H \leq 5.0 m, W=2.0 m Acoustic element : Transparent sheet, thickness : 12 mm Post: UPE 80 for H \leq 3.0 m
		UPE 100-180 for $3.0 \text{ m} < \text{H} \le 5.0 \text{ m}$
	Screen – Skuru Vertical/Angle	For parapet alternative: cc 2.0 m H = 1.8 m, W = 2.0 m
		Screen : Transparent sheet, thickness 12 mm Post : U-profile 160 x 25-80 mm, thickness 5 mm
	Concrete foundation	For parapet alternative: cc 2.0 m Concrete plate: 3000 x 1900 mm thickness 350 mm Material. Steel reinforces concrete Adapter: HEB 200 Baseplate: Plate: 400 x 325 mm Thickness: 35 mm
		Position: 60.5 cc offset 4 bolts
	Height above road surface:	1.50 m (total), 0.510 m (center of low rail) 2.0 m including Nordic BS Nordre noise barrier 2.5 m including Nordic BS noise barrier
	Post distance: Steel post dimensions: Post embedment:	2.0 m Steel tube, Ø133 mm, thickness 6.0 mm Length 2.80 m min 1.3 m
Nordic R H4b	Steel rail:	3 Tubes, Ø88.9 mm, thickness 6.3 mm
Ground CC 2.0 m	Noise barrier:	Nordic BS Nordre noise barrier H=2m, W=2m 20 mm Plexiglas Post: U-profile with different flange length 25-80×120×25-80×5 mm Upper and lower U-profile 60×50×60×5 mm Nordic BS noise barrier H<2 5m W=2m
		12 mm Polycarbonate Post: UPE 80

Product	Description and configuration	
Nordic M N2	Post distance: Height from road surface:	4.0 m 0.6 m (total), 0.55 m (Center of rail)
CC 4.0 m	Post dimensions:	C 108 x 48 x 19 mm, thickness 4 mm Length:

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		-for soil: 0.885 m. driven in soil 0.30 m
		-for asphalt: 0.985 m. driven in asphalt 0.30 m
		for based ate: 0.707 m, driver in asphalt 0.30 m
		-for baseplate: 0.506 m
	Rail:	oval open M profile 200 × 104 mm,
		thickness 3 mm
	Socket:	Closed profile 120 x 60 mm,
		Thickness 5 mm
		-for soil: length 800 mm
		-for schalt; length 400 mm
	Baseplate:	Plate 250 x 130 x 16 mm
	Post distance:	3.0 m, mounted in ground tubes
	Height from road surface:	0.7 m (total) 0.65 m (Center of rail)
	Deile	1 evel ener Marefile 200 x 100 mm
	Rall:	1 oval open w prome 200 × 100 mm,
Nordic M H1		thickness 3 mm
	Joint plate for open profile:	532 × 332 mm, thickness 4 mm.
CC 3.0 m	Foundation post	C profile 120 x 60 mm thickness 5 mm and length
	· · · · · · · · · · · · · · · · · · ·	800 mm driven into ground
	Steel post:	C profile 108 × 48 × 18 mm, thickness 5 mm
		Length: 985 mm, driven into foundation 300 mm.
	Height from road surface:	0.7 m or 0.8 m (total)
	Post distance:	$20 \mathrm{mor} 30 \mathrm{m}$
	De st discarce.	
	Post dimensions:	C 108 X 48 X 19 mm, UNICKNESS 4mm
		Length:
		-for soil: 0.985 m, driven in soil 0.30 m
		-for asphalt: 0.985 m, driven in asphalt 0.30 m
		for baconlate: 0.606 m or 0.520 m
		-101 Dasepiate. 0.000 11 01 0.320 11
	Rail:	Oval open M profile 200 × 104 mm,
		Thickness 3 mm
	Socket:	Closed profile 120 x 60 mm
	JUCKEL.	
		Thickness: 5 mm,
Nordia M 111 v2		-for soil: length 800 mm
		-for asphalt: length 400 mm
CC 2.0 m		6
or	Descriptor	Dista min 200 v 120 mm
CC 30 m	baseplate:	Plate min 200 x 130 mm
		Thickness min 16 mm
		or
		Plate min 210 x 210 mm
		Thickness 25 mm
		Hole pattern: 120 x 120 mm
		or
		Plate min 230 x 230 mm
		Thickness 25 mm
		Hele nettern: 140 x 140 mm
		Hole pattern: 140 x 140 mm
	GC attachment:	Pipe 88.9 x 2.6 mm
		Bar diameter 18 mm
		With integrated lights allowed in rails with
		maximum cize 50 y 200 mm with 0 to 4 m and size
		maximum size 50 x 500 mm with 2 to 6 m spacing
	Height from road surface:	0./3 m
	Post distance:	1.33 m
Nordic M H2	Post dimension:	C profile 124 × 58 × 29 mm. thickness 5 mm
CC 1 33 m		Length: 1113 mm driven into foundation 400 mm
CC 1.55 III		Longen. 1110 mm, an ven met roundation 400 mm
	l Rail	M profile 204 × 104 mm

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	thickness 4 mm
Joint plate for open profile: Foundation post:	636 × 328mm, thickness 4mm Closed profile 140 × 70mm Thickness: 5mm Length: 1000mm, driven into ground

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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	А	W5 (1.7)	1.5	NA
Nordic K N2* CC 4 m	N2	А	W6 (2.0)	1.9	NA

*ITT

Product	Containment level	Impact severity level	Normalized working width, class [m]	Normalized dynamic deflection, [m]	Normalized vehicle intrusion class, [m]
Nordic SF N2* CC 4 m	N2	А	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	В	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	В	W2 (0.8)	0.6	VI3 (0.9)
Nordic SF H2 High CC 2m h=1.2 m Roadway level Post In soil	H2	В	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	В	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	В	W2 (0.8)	0.6	VI3 (0.9)
Nordic SF H2 High CC 2m h=1.4 m Roadway level Post In soil	H2	В	W2 (0.8)	0.6	VI3 (0.9)

*ITT

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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	А	W4 (1.1)	0.9	NA
Nordic W N2* CC 4 m	N2	А	W5 (1.7)	1.5	NA
Nordic W N2 GC* CC 4 m	N2	A	W2 (0.8)	0.8	NA
Nordic W N2+* CC 4 m	N2	А	W3 (1.0)	1.0	NA
Nordic W N2-H1-L1 Green* CC 5 m	N2	А	W3 (1.0)	0.9	NA
Nordic W N2-H1-L1 Green* CC 5 m	H1	А	W4 (1.3)	1.2	VI4 (1.3)
Nordic W N2-H1-L1 Green* CC 5 m	L1	А	W4 (1.3)	1.2	VI4 (1.3)
Nordic W N2H2L2 Low+ CC 1.33 m	N2	В	W1 (0.6)	0.5	NA
Nordic W N2H2L2 Low+ CC 1.33 m	H2	В	W4 (1.3)	1.2	VI5 (1.5)
Nordic W N2H2L2 Low+ CC 1.33 m	L2	В	W4 (1.3)	1.2	VI5 (1.5)
Nordic W H2 High* CC 2.0 m H= 1.2 m, 1.4 m	H2	В	W2 (0.8)	0.6	VI4 (1.1)
Nordic W H2 High CC 1.8 m	H2	В	W2 (0.7)	0.5	VI4 (1.1)
Nordic W H2 High With noise barrier PC plate CC 2.0 m,	H2	В	N/A	N/A	VI4 (1.1)
Nordic W H2 High With noise barrier PC plate CC 1.8 m.	H2	В	N/A	N/A	VI4 (1.1)
Nordic W H2 High With noise barrier wood screen CC 2.0 m,	H2	В	N/A	N/A	VI4 (1.1)

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Nordic W H2 High With suicide protection CC 2.0 m,	H2	В	N/A	0.5	VI4 (1.1)
Nordic W H2* CC 1.8 m, h= 1.2 m Raised egde beam Post casted in concrete	H2	В	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	В	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	В	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	В	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	В	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	В	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	В	W3 (1.0)	0.9	VI3 (1.0)

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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 R H1* CC 4.0 m	H1	А	W3 (1.0)	0.9	VI6 (2.0)
Nordic R H2 High* CC 2.0 m,	H2	В	W2 (0.7)	0.5	VI3 (1.0)
Nordic R H2 Low* CC 2.0 m,	H2	А	W4 (1.2)	1.1	VI5 (1.5)
Nordic R H2 High CC 2.0 m, H= 1.2 m, 1.4 m	H2	В	W2 (0.8)	0.6	VI3 (1.0)
Nordic R H2 High CC 1.8 m	H2	В	W2 (0.7)	0.5	VI3 (1.0)
Nordic R H2 High With noise barrier PC plate CC 2.0 m,	H2	В	N/A	0.4	VI3 (1.0)
Nordic R H2 High With noise barrier PC plate CC 1.8 m	H2	В	N/A	0.4	VI3 (1.0)
Nordic R H2 High With noise barrier wood screen CC 2.0 m	H2	В	N/A	0.5	VI3 (1.0)
Nordic R H2 High With suicide protection CC 2.0 m,	H2	В	N/A	0.5	VI3 (1.0)
Nordic R N2* CC 4.0 m	N2	А	W3 (0.9)	0.8	N/A
Nordic R N2 GC* CC 4.0 m	N2	А	W3 (1.0)	0.8	N/A
Nordic R H4b CC 2.0 m	H4b	В	W3 (0.9)	0.8	VI4 (1.3)
Nordic R H4b CC 2.2 m	H4b	В	W3 (1.0)	0.8	VI4 (1.3)
Nordic R H4b with Nordic BS Nordre cc 2.0 m	H4b	В	NA	0.7	VI4 (1.2)
Nordic R H4b with Nordic BS Nordre ver. 2 cc 2.0 m	H4b	В	NA	0.7	VI4 (1.2)

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Nordic R H4b with 50 mm gap between footplate and edge beam cc 2.0 m	H4b	В	W3 (0.9)	0.7	VI4 (1.2)
Nordic R H4b edge beam at asphalt level cc 2.0 m	H4b	В	W3 (1.0)	0.8	VI4 (1.2)
Nordic R H4b with Nordic Suicide Protection cc 2.0 m	H4b	В	NA	0.7	VI4 (1.2)
Nordic R H4b with Nordic BS NB cc 2.0 m	H4b	В	NA	0.7	VI4 (1.2)
Nordic R H4b with Skuru screen cc 2.0 m	H4b	В	NA	0.7	VI4 (1.2)
Nordic R H4b with alternative baseplate cc 2.0 m	H4b	В	W3 (0.9)	0.8	VI4 (1.3)
Nordic R H4b Concrete foundation cc 2.0 m	H4b	В	W3 (1.0)	0.8	VI4 (1.3)
Nordic R H4b Baseplate alt 4 cc 2.0 m	H4b	В	W3 (0.9)	0.8	VI4 (1.3)
Nordic R H4b Ground CC 2.0 m	H4b	A	W5 (1.5)	1.1	VI5 (1.4)
Nordic R H4b ground with Nordic BS Nordre noise barrier cc 2.0 m	H4b	A	N/A	1.1	VI5 (1.6)
Nordic R H4b ground with Nordic BS noise barrier cc 2.0 m	H4b	А	N/A	1.1	VI5 (1.6)

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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 M N2* CC 4.0 m	N2	А	W4 (1.3)	1.1	N/A
Nordic M H1* CC 3.0 m	H1	А	W4 (1.3)	1.1	VI5 (1.7)
Nordic M H1 v2* CC 3.0 m	H1	А	W4 (1.2)	1.1	VI5 (1.5)
Nordic M H1 v2 CC 3.0 m with GC attachment	H1	А	W4 (1.1)	1.1	VI5 (1.5)
Nordic M H1 v2 CC 2.0 m with alternativ joint and decreased post spacing	H1	А	W4 (1.2)	1.1	VI5 (1.5)
Nordic M H1 v2 CC 3.0 m with raised edge beam (100 mm)	H1	А	W4 (1.2)	1.1	VI5 (1.4)
Nordic M H1 v2 CC 3.0 m with raised walkway (100 mm), new height (0.8 m) and GC attachment	H1	A	W4 (1.1)	1.1	VI5 (1.6)
Nordic M H1 v2 CC 3.0 m with GC attachment and integrated lighting	H1	А	W4 (1.1)	1.1	VI5 (1.5)
Nordic M H2* CC 1.33 m	H2	А	W4 (1.2)	1.1	VI5 (1.5)

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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, R N2 GC, H1, H2 High, H2 Low, H4b and H4b Ground Nordic M N2, H1, H1 v2 and H2	Hot dip galvanized, acc. To EN ISO 1461	Class 4
Nordic W N2, W N2+, W N2 GC, N2-H1- L1 Green, N2H2L2 Low+, H2 and H2 High	Hot dip galvanized, acc. to EN ISO 1461	Class 3

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