



Certificate of constancy of performance

0402 - CPR - SC0429-10

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 – Vehicle parapets

as specified in appendix to this certificate.

Intended use: vehicle restraint system for circulation areas (bridge)

Product name: Birsta 3P and variants

produced by or for

Birstaverken AB

Box 30

SE-863 22 SUNDSBRUK

Sweden

and produced in the manufacturing plants

same as above and at factories documented in files at SP

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

EN 1317-5:2007+A2:2012

under system 1 for the performances set out in this certificate are applied and that

the construction products fulfil all the prescribed requirements for these performances.

This certificate was first issued on 2010-07-08 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared essential characteristics, do not change, and the construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.

2014-07-02

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



Lennart Aronsson
Product Certification Manager



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Certification officer

Certificate of constancy of performance

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Road restraint system – Vehicle parapets Birsta 3P and variants

Intended use: vehicle restraint system for circulation area (bridge)

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

Product	Containment level	Impact severity level	Normalized working width, class (m)	Normalized dynamic deflection [m]	Normalized vehicle intrusion class (m)
Birsta 3P and variants CC 1.8 or 2.0 m	H2	B	W3 (value see below)	(value see below)	VI4 (value see below)

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

Product	Durability	Resistance to snow removal class
Birsta 3P and variants	Hot dip galvanized, acc. to EN ISO 1461	Class 4

Product description for Birsta 3P and variants

Post distance:	1.8 and 2.0 m
Height above road surface:	1.2 and 1.4 m
3 longitudinal steel tube rails:	∅ 88.9 mm, thickness: 3.2 mm (rails), 6.3 mm (top rail)
Steel post length, straight (casted without base plate):	1375, 1575, 1495, 1695, 1585, 1785 mm
Steel post length, straight (baseplate 210x210x25 and 240x220x30 mm):	1045, 1245, 1165, 1365, 1260, 1460 mm
Steel post length, bended (casted, without base plate):	1375, 1575, 1495, 1695, 1585, 1785 mm
Steel post length, bended (base plate 210x210x25 mm):	1045, 1245, 1165, 1365, 1260, 1460 mm
Steel post length, straight and bended (steel foundation):	2405, 2605 mm
Steel post length, straight and bended (concrete foundation):	2405, 2605 (adjusted at site)
Steel post length, straight and bended (side mounted):	1220 + length of support (variable) 1420 + length of support (variable)
Edge beam height, to road surface:	Type A: +100 mm, Type B: 0 mm, Type C: -100 mm
Casted in edge beam:	280 mm
Steel foundation:	1200 x ∅127 mm
Concrete foundation:	1.3 x 1.3 x 0.2 m, with installation depth in soil of 0.5 m
Side mounted:	HEB 120 beam (variable length)

Certificate of conformity of the factory production control

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Parapet height 1.2 or 1.4 m, model number and classification see tables below *)=ITT
Normalized working width [m] / Normalized dynamic deflection [m] / Normalized vehicle intrusion class [m]

Height		Bended post		Straight post	
		Base plate	No Base plate	Base plate	No Base plate
1.2 m	Edge Beam Type A	832 21 000 0.9 / 0.6 / 1.1	832 11 000 0.9 / 0.6 / 1.1	842 / 852 21 00 0.9 / 0.6 / 1.1	842 11 000 0.9 / 0.6 / 1.1
	Edge Beam Type B	832 22 000 0.9 / 0.7 / 1.2	832 12 000 1.0 / 0.8 / 1.2	842 / 852 22 000 0.9 / 0.7 / 1.2	842 12 000 1.0 / 0.8 / 1.2
	Edge Beam Type C	832 24 000 1.0 / 0.7 / 1.2	832 14 000 1.0 / 0.8 / 1.2	842 / 852 24 000 1.0 / 0.8 / 1.2	842 14 000 1.0 / 0.8 / 1.2
	Steel foundation		832 60 000 1.0 / 0.7 / 1.3		842 60 000 1.0 / 0.7 / 1.2
	Concrete foundation		832 65 000 1.0 / 0.7 / 1.2		842 65 000 1.0 / 0.7 / 1.2
	Side mounted		832 32 000 1.0 / 0.7 / 1.2		842 32 000 1.0 / 0.7 / 1.2
	1.8 m	Edge Beam Type A	831 21 000 0.9 / 0.6 / 1.1	831 11 000*) 0.9 / 0.8 / 1.2	841 / 851 21 000 0.9 / 0.6 / 1.1
Edge Beam Type B		831 22 000 1.0 / 0.7 / 1.2	831 12 000 1.0 / 0.8 / 1.3	841 / 851 22 000 1.0 / 0.7 / 1.2	841 12 000 1.0 / 0.8 / 1.2
Steel foundation			831 60 000 1.0 / 0.8 / 1.3		841 60 000 1.0 / 0.8 / 1.2
Concrete foundation			831 65 000 1.0 / 0.8 / 1.3		841 65 000 1.0 / 0.8 / 1.2
Side mounted			831 32 000 1.0 / 0.6 / 1.3		841 32 000 1.0 / 0.8 / 1.2

Height		Bended post		Straight post	
		Base plate	No Base plate	Base plate	No Base plate
1.4 m	Edge Beam Type A	832 21 100 0.9 / 0.7 / 1.1	832 11 100 0.9 / 0.7 / 1.1	842 / 852 21 100 0.9 / 0.7 / 1.1	842 11 100 0.9 / 0.7 / 1.1
	Edge Beam Type B	832 22 100 1.0 / 0.7 / 1.1	832 12 100 1.0 / 0.8 / 1.2	842 / 852 22 100 1.0 / 0.7 / 1.1	842 12 100 1.0 / 0.8 / 1.1
	Edge Beam Type C	832 24 100 1.0 / 0.8 / 1.2	832 14 100 1.0 / 0.8 / 1.2	842 / 852 24 100 1.0 / 0.8 / 1.2	842 14 100 1.0 / 0.8 / 1.2
	Steel foundation		832 60 100 1.0 / 0.8 / 1.2		842 60 100 1.0 / 0.8 / 1.2
	Concrete foundation		832 65 100 1.0 / 0.8 / 1.2		842 65 100 1.0 / 0.8 / 1.2
	Side mounted		832 32 100 1.0 / 0.8 / 1.2		842 32 100 1.0 / 0.8 / 1.2
	2.0 m	Edge Beam Type A	831 21 100 0.9 / 0.7 / 1.1	831 11 100 1.0 / 0.8 / 1.1	841 / 851 21 100 0.9 / 0.7 / 1.1
Edge Beam Type B		831 22 100 1.0 / 0.8 / 1.2	831 12 100 1.0 / 0.8 / 1.2	841 / 851 22 100 1.0 / 0.8 / 1.2	841 12 100 1.0 / 0.8 / 1.2
Steel foundation			831 60 100 1.0 / 0.8 / 1.2		841 60 100 1.0 / 0.8 / 1.2
Concrete foundation			831 65 100 1.0 / 0.8 / 1.2		841 65 100 1.0 / 0.8 / 1.2
Side mounted			831 32 100 1.0 / 0.8 / 1.3		841 32 100 1.0 / 0.8 / 1.2