



# CERTIFIKAT

## Certificate of constancy of performance

**0402 - CPR - SC0639-10**

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 – Safety barrier** as specified in appendix to this certificate

**Product name: Birsta 1P Guardrail**

produced by or for

**Birstaverken AB**  
**Box 30, SE-863 22 SUNDSBRUK**  
**Sweden**

and produced in the manufacturing plants

**Name and address as above, and according to separate list**  
(factory, company and address documented in files at SP)

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

**EN 1317-5:2007/A1:2008**

under system 1 are applied and that

**the products fulfil all the prescribed requirements set out above.**

This certificate was first issued on 2011-03-07 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 characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

Borås 2013-11-20

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

  
Lennart Aronsson  
Product Certification Manager

  
Susanne Hansson  
Certification Officer

### Road restraint system – Safety barrier

#### Birsta 1P Guardrail according to EN 1317-5:2007/A1:2008

##### Classification according to EN 1317-2:1998/A1:2006

Product	Containment level	Impact severity level	Working width [m]	Dynamic deflection [m]
<b>Birsta 1P</b> Guardrail CC 4 m (grounded in soil or with base plate)	N2	A	W4 (1.3)	1.0
	H1	A	W5 (1.7)	1.2

##### Classification according to EN 1317-5:2007+A1:2008

Product	Durability
<b>Birsta 1P</b> Guardrail CC 4 m	Hot dip galvanized, according to: EN ISO 1461:2009 (SS-EN ISO 1461:2009, National Annex NA, Table NA.1, Fe/Zn 115)

##### Product description and configuration

Product	Description										
<b>Birsta 1P grounded in soil *</b> Guardrail CC 4 m	<table> <tr> <td>Post distance</td> <td>4.00 m</td> </tr> <tr> <td>Height above road surface</td> <td>0.55 m (centre of rail)</td> </tr> <tr> <td>Post embedment</td> <td>0.80 m (min.)</td> </tr> <tr> <td>Post length</td> <td>1300 mm (rectangular steel C-shaped)</td> </tr> <tr> <td>Rectangular rail</td> <td>240 x 100 x 3 mm</td> </tr> </table>	Post distance	4.00 m	Height above road surface	0.55 m (centre of rail)	Post embedment	0.80 m (min.)	Post length	1300 mm (rectangular steel C-shaped)	Rectangular rail	240 x 100 x 3 mm
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Height above road surface	0.55 m (centre of rail)										
Post embedment	0.80 m (min.)										
Post length	1300 mm (rectangular steel C-shaped)										
Rectangular rail	240 x 100 x 3 mm										
<b>Birsta 1P with base plate **</b> Guardrail CC 4 m	<table> <tr> <td>Post distance</td> <td>4.00 m</td> </tr> <tr> <td>Height above road surface</td> <td>0.55 m (centre of rail)</td> </tr> <tr> <td>Post length</td> <td>445 mm (rectangular steel C-shaped)</td> </tr> <tr> <td>Base plate</td> <td>210 x 80 x 15 mm</td> </tr> <tr> <td>Rectangular rail</td> <td>240 x 100 x 3 mm</td> </tr> </table>	Post distance	4.00 m	Height above road surface	0.55 m (centre of rail)	Post length	445 mm (rectangular steel C-shaped)	Base plate	210 x 80 x 15 mm	Rectangular rail	240 x 100 x 3 mm
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Height above road surface	0.55 m (centre of rail)										
Post length	445 mm (rectangular steel C-shaped)										
Base plate	210 x 80 x 15 mm										
Rectangular rail	240 x 100 x 3 mm										

\* ITT    \*\* when used on bridge, not for use on the outer edge beam