



Certificate of constancy of performance

0402 - CPR - SC1019-14

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 barriers

as specified in appendix to this certificate.

Intended use: vehicle restraint system for circulation areas

Product names: BD Vegrekkverk

produced by or for

Brødrene Dahl AS

Postboks 6146 Etterstad (Brynsengveien 5)

0602 OSLO, Norway

and produced in the manufacturing plants

same as above and

Brødrene Dahl – Fabrikk 2

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 the prescribed requirements for performances, see Appendix.

This certificate was first issued on 2014-12-01 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construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.

2015-07-01

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

Lennart Månsson
Certification Manager

Susanne Hansson
Certification officer

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Road restraint system – Safety barriers

Brødrene Dahl, BD Vegrekkverk

Intended use: vehicle restraint system for circulation areas

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]
BD Veg – Sigma/BS-CC1* CC 1 m	H2	B	W4 (1.3)	1.1
BD Veg – Sigma/BS-CC2* CC 2 m	N2	B	W3 (0.9)	0.9
BD Veg – Sigma-CC2 * CC 2 m	N2	B	W4 (1.1)	0.9
BD Veg – Sigma-CC4 * CC 4 m	N2	A	W5 (1.7)	1.5
BD Veg - P140 * CC 4 m	N2	A	W7 (2.3)	2.3

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

Product	Durability	Resistance to snow removal class
BD Veg – Sigma/BS-CC1 BD Veg – Sigma/BS-CC2	Hot dip galvanized, acc. to EN ISO 1461	Class 3
BD Veg – Sigma-CC2 BD Veg – Sigma-CC4	Hot dip galvanized, acc. to EN ISO 1461	Class 3
BD Veg - P140	Pole: Plastic not evaluated Steel Beam: Hot dip galvanized, acc. to EN ISO 1461.	Class 3

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Product description and configuration

Product	Description
BD Veg – Sigma/BS-CC1 CC 1 m BD Veg – Sigma/BS-CC2 CC 2 m	Post distance: 1.0 m / 2.0 m Barrier height above road surface: 0.75 m Beam height above road surface: 0.60 m (centre of W-profile) Longitudinal beam: W-profile (A-profile) Backside beam: W-back beam Sigma steel post length: 1950 mm Post embedment: min 1.2 m (in soil)
BD Veg – Sigma-CC2 CC 2 m BD Veg – Sigma-CC4 CC 4 m	Post distance: 2.0 m / 4.0 m Barrier height above road surface: 0.70 m Beam height above road surface: 0.55 m (centre of W-profile) Longitudinal beam: W-profile (A-profile) Sigma steel post length: 1950 mm Post embedment: min 1.2 m (in soil)
BD Veg - P140 CC 4 m	Post distance: 4.0 m Barrier height above road surface: 0.75 m Beam height above road surface: 0.60 m (centre of W-profile) Longitudinal beam: W-profile (A-profile) Plastic post dimensions: Length 2000 mm, diameter 140 mm, thickness 14 mm Plastic post material: Borealis HDTE development grade TL2000.10 Post embedment: min 1.2 m (in soil)