

**Teepiirdesüsteemid. Osa 5: Sõidukipiirdesüsteemide
toodetele esitatavad nõuded ja vastavushindamine
KONSOLIDEERITUD TEKST**

Road restraint systems - Part 5: Product requirements and
evaluation of conformity for vehicle restraint systems
CONSOLIDATED TEXT

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 1317-5:2007+A1:2008 sisaldab Euroopa standardi EN 1317-5:2007+A1:2008 ingliskeelset teksti.

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English Version

Road restraint systems - Part 5: Product requirements and
evaluation of conformity for vehicle restraint systems

Dispositifs de retenue routiers - Partie 5: Exigences
relatives aux produits et évaluation de la conformité pour
les dispositifs de retenue pour véhicules

Rückhaltesysteme an Straßen - Teil 5: Anforderungen an
die Produkte, Konformitätsverfahren und -bescheinigung für
Fahrzeugrückhaltesysteme

This European Standard was approved by CEN on 28 September 2006 and includes Amendment 1 approved by CEN on 30 May 2008.

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Foreword

This document (EN 1317-5:2007+A1:2008) has been prepared by Technical Committee CEN/TC 226 "Road equipment", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2009 and conflicting national standards shall be withdrawn at the latest by January 2011.

This document includes Amendment 1, approved by CEN on 2008-05-30.

This document supersedes EN 1317-5:2007.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 and A1.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This European Standard consists of this document and the following parts under the general title: *Road restraint systems*.

- *Part 1: Terminology and general criteria for test methods*
- *Part 2: Performance classes, impact test acceptance criteria and test methods for safety barriers*
- *Part 3: Performance classes, impact test acceptance criteria and test methods for crash cushions*
- *Part 4: Performance classes, impact test acceptance criteria and test methods for terminals and transitions of safety barriers*
- *Part 6: Pedestrian restraint system*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This document is a product standard for vehicle restraint systems placed on the market.

This document is designed for use in conjunction with Parts 1, 2, 3, prEN 1317-6 or ENV 1317-4.

To ensure the full performance of road restraint systems in use, their production and installation is intended to be controlled in accordance with this document.

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1 Scope

This European Standard specifies requirements for evaluation of conformity of the following vehicle restraint systems:

- a) safety barriers;
- b) crash cushions;
- c) terminals (will be effective when ENV 1317-4 becomes an EN);
- d) transitions (will be effective when ENV 1317-4 becomes an EN);
- e) vehicle / pedestrian parapets (only for the vehicle restraint function).

Pedestrian parapet requirements are not covered in this document.

Requirements for the evaluation of durability with respect to weathering are included in this document.

Requirements for other forms of durability (e.g. marine environment, sand abrasion) are not included.

Temporary barriers are not within the scope of this document.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 206-1, *Concrete – Part 1: Specification, performance, production and conformity*

EN 335-1, *Durability of wood and wood-based products – Definition of use classes – Part 1: General*

EN 335-2, *Durability of wood and wood-based products – Definition of use classes – Part 2: Application to solid wood*

EN 1317-1, *Road restraint systems – Part 1: Terminology and general criteria for test methods*

EN 1317-2, *Road restraint systems – Part 2: Performance classes, impact test acceptance criteria and test methods for safety barriers*

EN 1317-2/A1, *Road restraint systems – Part 2: Performance classes, impact test acceptance criteria and test methods for safety barriers*

EN 1317-3, *Road restraint systems – Part 3: Performance classes, impact test acceptance criteria and test methods for crash cushions*

ENV 1317-4, *Road restraint systems – Part 4: Performance classes, impact test acceptance criteria and test methods for terminals and transitions of safety barriers*

prEN 1317-6, *Road restraint systems – Pedestrian restraint systems, pedestrian parapet*

EN 10326, *Continuously hot-dip zinc coated strip and sheet of structural steels – Technical delivery conditions*

EN 13369, *Common rules for precast concrete products*

EN ISO 1461, *Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods (ISO 1461:1999)*

EN ISO 9001:2000, *Quality managements systems – Requirements (ISO 9001:2000)*

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

3.1 testing laboratory

competent laboratory, which measures, examines, tests, calibrates or otherwise determines the characteristics or performance of materials or products within the scope of this document. A laboratory accredited by a signatory of EA (European co-operation for accreditation) or the appropriate statutory instrument, within the scope of this document, in the territory where the test was executed may be presumed to be competent

3.2 working life

period of time during which the performance of a product will be maintained at a level that enables the product to fulfil the requirements of this document (i.e. the essential characteristics of a product to meet or exceed minimum acceptable values, without incurring major costs for repair or replacement). The working life of a product depends upon its inherent durability and normal maintenance

NOTE A clear distinction should be made between the assumed economically reasonable working life for a product, which underlies the assessment of durability in technical specifications, and the actual working life of a product in a works. The latter depends on many factors beyond the control of the producer, such as design, location of use (exposure), installation, use and maintenance. **The assumed working life can thus not be interpreted as being a guarantee given by the producer.**

3.3 durability

ability of a product to maintain its required performance over time, under the influence of foreseeable actions. Subject to normal maintenance, a product should enable properly designed and executed works to fulfil specified requirements for an economically reasonable working life of the product

3.4 manufacturer (synonymous with “producer”)

organization with legal responsibility for placing a CE-Mark on a product (see Annex ZA)

4 Requirements

4.1 Performance under impact

4.1.1 Safety barriers

Safety barriers shall be tested to and shall conform to the requirements of EN 1317-1 and EN 1317-2 + EN 1317-2/A1.

4.1.2 Vehicle parapets

Vehicle parapets shall be tested to and shall conform to the requirements of EN 1317-1 and EN 1317-2 + EN 1317-2/A1.

4.1.3 Crash cushions

Crash cushions shall be tested to and shall conform to the requirements of EN 1317-1 and EN 1317-3.