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Road restraint systems - Part 9: Impact tests and test methods for removable barrier sections

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/24

Táto predbežná slovenská technická norma je určená na overenie. Prípadné pripomienky pošlite do novembra 2025 Úradu pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky.

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CEN/TS 1317-9

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ICS 13.200; 93.080.30

Supersedes ENV 1317-4:2001

English Version

**Road restraint systems - Part 9: Impact tests and test
methods for removable barrier sections**

Dispositifs de retenue routiers - Essais de choc et
méthodes d'essai pour les sections amovibles de
barrière de sécurité

Rückhaltesysteme an Straßen - Leistungsklassen,
Abnahmekriterien für Anprallprüfungen und
Prüfverfahren für leicht entfernbar
Schutzeinrichtungsabschnitte

This Technical Specification (CEN/TS) was approved by CEN on 4 September 2023 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

CEN/TS 1317-9:2023 (E)

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Abbreviations	8
5	Performance under impact	8
5.1	General	8
5.2	Containment categories	8
5.3	Impact severity	9
5.4	Deformation of the RBS	9
5.5	Connection force	9
6	Test methods	9
6.1	General	9
6.2	Environmental consideration for crash tests	9
6.3	Impact Points	10
6.4	Additional test	11
6.5	Previously tested RBS	11
7	Test acceptance criteria	11
8	Length of test installation	12
9	Modular RBS of different lengths	12
10	Test report	12
Bibliography		13

European foreword

This document (CEN/TS 1317-9:2023) has been prepared by Technical Committee CEN/TC 226 “Road equipment”, the secretariat of which is held by AFNOR.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document partially supersedes ENV 1317-4:2001.

This document, fully dedicated to removable barrier sections (RBS) will partly supersede ENV 1317-4:2001 in which RBS are addressed only in subclause 6.2, in which they are treated as special transitions for lengths up to 40 m, and safety barriers for higher lengths.

In comparison with ENV 1317-4, the following technical modifications have been made:

- emergency passage: considered in 3.7,
- deformation of the RBS (5.4): specification of Dynamic Deflection, Working Width and System intrusion. Reporting of completely detached parts,
- connection force (5.5): reporting of the longitudinal forces acting under impact on the connections with the two barriers,
- impact points (6.3): different definition of the location and of the number of impact points,
- length of test installation (8): minimum length of the connected barriers,
- modular RBS of different length (9): reduced test matrix for products derived from a parent RBS, by assembling a different number of the same modules.

This document is read in conjunction with EN 1317-1:2010 and EN 1317-2:2010 and EN 1317-5:2007+A2:2012 and CEN/TR 1317-10.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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

CEN/TS 1317-9:2023 (E)**Introduction**

In order to improve safety, the design of roads might require the installation of road safety barriers. Provisions are sometimes necessary for sections of barrier that can be temporarily opened whilst maintaining the capacity to contain errant vehicles in the closed configuration.

This document partially replaces the ENV 1317-4:2001 regarding the assessment of performance and test methods for Removable Barrier Sections. In the afore-mentioned document, these Removable Barrier Sections were considered to be special transitions and were assessed as such.

The performance of any required transition elements or assemblies that connect the removable barrier section to a standard road safety barrier may be assessed according to CEN/TR 1317-10.

1 Scope

This document specifies performance categories and test methods for the assessment of removable barrier sections.

The transitions between the Removable Barrier Section and the two connected safety barriers are outside the scope of this document and are assessed using CEN/TR 1317-10

The transitions between the Removable Barrier Section and the two connected safety barriers are outside the scope of this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1317-1:2010, *Road restraint systems - Part 1: Terminology and general criteria for test methods*

EN 1317-2:2010, *Road restraint systems - Part 2: Performance classes, impact test acceptance criteria and test methods for safety barriers including vehicle parapets*

CEN/TR 1317-10, *Road restraint systems — Part 10: Assessment methods and design guidelines for transitions, terminals and crash cushion connection - transitions*

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