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English Version

Road restraint systems - Part 6: Pedestrian restraint system - Pedestrian parapets

Dispositifs de retenue routiers - Partie 6: Dispositif de
retenue pour piétons - Garde-corps

Rückhaltesysteme an Straßen - Teil 6:
Fußgängerrückhaltesysteme - Brückengeländer

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (CEN/TR 1317-6:2012) 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 [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

EN 1317 consists of the following parts:

- 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 including vehicle parapets*;
- 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*¹⁾;
- EN 1317-5, *Road restraint systems — Part 5: Product requirements and evaluation of conformity for vehicle restraint systems*;
- CEN/TR 1317-6, *Road restraint systems — Part 6: Pedestrian restraint systems — Pedestrian parapets*²⁾;
- prEN 1317-7, *Road restraint systems — Part 7: Performance classes, impact test acceptance criteria and test methods for terminals of safety barriers*;
- CEN/TS 1317-8, *Road restraint systems — Part 8: Motorcycle road restraint systems which reduce the impact severity of motorcyclist collisions with safety barriers*.

1) ENV 1317-4:2001 will be superseded by future EN 1317-4, *Road restraint systems — Part 4: Performance classes, impact test acceptance criteria and test methods for transitions of safety barriers* (under preparation).

2) Under preparation.

Introduction

The safety considerations of pedestrians using road bridges, footbridges and similar elevated structures require the installation of special road restraint systems, so called pedestrian restraint systems or pedestrian parapets.

Pedestrian parapets are used to prevent people from falling off a bridge or other type of elevated structure

Aspects included in the Technical Report are:

- a) safety in use for pedestrians and other highway users (excluding motor vehicles);
- b) the safety considerations of pedestrians using road bridges and footbridges and similar structures;
- c) analysis and test methods;
- d) durability;
- e) labelling and marking.

1 Scope

This Technical Report specifies geometrical and technical requirements for the design and manufacture for pedestrian parapets on road bridges, on footbridges, on top of retaining walls and on similar elevated structures.

This Technical Report also specifies test methods and provision for the labelling and marking of these products.

This Technical Report does not cover:

- vehicle restraint systems;
- pedestrian restraint systems in residential, commercial or industrial buildings and within their perimeter;
- non-rigid rails i.e. rope, cables.

This Technical Report may be used for pedestrian parapets on structures which cross over railways, rivers and canals.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 1990:2002, *Eurocode — Basis of structural design*

EN 10204, *Metallic products — Types of inspection documents*

EN 12767, *Passive safety of support structures for road equipment — Requirements, classification and test methods*