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Responsible committee: B/509/6 Fences for the attenuation of noise

Interested committees:

Title: Draft BS EN 14388 Road traffic noise reducing devices - Characteristics.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

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- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

Road traffic noise reducing devices - Characteristics

Dispositifs de réduction du bruit du trafic routier -
Caractéristiques

Lärmschutzvorrichtungen an Straßen - Merkmale

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 226.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

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European foreword

This document (prEN 14388:2021) has been prepared by Technical Committee CEN/TC 226 “Road equipment”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 14388:2015.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association.

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

For information, EN 14388:2015 replaced EN 14388:2005 and EN 14388:2005/AC:2008, but it was not cited in the EU Official Journal (OJEU).

The main changes in comparison with the previous edition include:

- a clarification of the Scope;
- an improved definition of a Road Traffic Noise Reducing Device;
- a revision of all the supporting standards methods according to this revision; and
- this document has been revised to be in line with the Construction Products Regulation.

1 Scope

This document specifies product characteristics for road traffic noise reducing devices (RTNRD) - as defined in 3.1 - to be used alongside roads to reduce the propagation of traffic noise away from the road environment.

The following types of road traffic noise reducing devices are covered by this document:

- noise barriers (as defined in 3.4);
- claddings (as defined in 3.5);
- covers (as defined in 3.6); and
- added devices (as defined in 3.7).

Road traffic noise reducing devices comprise acoustic elements (as defined in 3.2), structural elements (as defined in 3.3) or self-supporting elements (having both acoustic and structural functions).

This document identifies assessment and verification of constancy of performance (AVCP) of characteristics of road traffic noise reducing devices.

This document does not cover the following:

- resistance of RTNRD to vandalism,
- visual appearance of RTNRD, and
- acoustic properties of road pavements.

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*

prEN 1793-1:2021¹, *Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 1: Intrinsic characteristics - Sound absorption under diffuse sound field conditions*

prEN 1793-2:2021¹, *Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 2: Intrinsic characteristics - Airborne sound insulation under diffuse sound field conditions*

prEN 1793-4:2021¹, *Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 4: Intrinsic characteristics - Intrinsic sound diffraction*

¹ Under development.

prEN 1793-5:2021¹, *Road traffic noise reducing devices - Test method for determining the acoustic performance – Part 5: Intrinsic characteristics - Sound absorption under direct sound field conditions*

prEN 1793-6:2021¹, *Road traffic noise reducing devices - Test method for determining the acoustic performance – Part 6: Intrinsic characteristics - Airborne sound insulation under direct sound field conditions*

prEN 1794-1:2021, *Road traffic noise reducing devices - Non-acoustic performance – Part 1: Methods of determination of the mechanical and stability characteristics*

prEN 1794-2:2021, *Road traffic noise reducing devices - Non-acoustic performance – Part 2: Methods of determination of the general safety and environmental characteristics*

prEN 14389:2021, *Road traffic noise reducing devices - Procedures for determining long-term performance*

EN 13501-1:2018, *Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*

CEN/TS 15447:2006, *Mounting and fixing in reaction to fire tests under the Construction Products Directive*

CEN/TS 16637-2:2014, *Construction products - Assessment of release of dangerous substances - Part 2: Horizontal dynamic surface leaching test*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

road traffic noise reducing device

RTNRD

device designed to reduce the propagation of traffic noise away from the road environment

Note 1 to entry: The RTNRD may comprise acoustic elements (3.2) only or both structural (3.3) and acoustic elements.

Note 2 to entry: Applications of RTNRD include noise barriers (3.4), claddings (3.5), covers (3.6) and added devices(3.7).

3.2

acoustic element

element whose primary function is to provide the acoustic performance of the device

3.3

structural element

element whose primary function is to support or hold in place acoustic elements