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Road traffic noise reducing devices - Non-acoustic performance - Part 2: Methods of determination of the general safety and environmental characteristics

EESTI STANDARDI EESSÕNA

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EUROPEAN STANDARD

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Road traffic noise reducing devices - Non-acoustic performance - Part 2: Methods of determination of the general safety and environmental characteristics

Dispositifs de réduction du bruit du trafic routier - Performances non acoustiques - Partie 2 : Méthodes de détermination des caractéristiques générales de sécurité et des caractéristiques environnementales

Lärmschutzvorrichtungen an Straßen - Nichtakustische Eigenschaften - Teil 2: Methoden zur Bestimmung der allgemeinen Sicherheits- und Umweltmerkmale

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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European foreword

This document (EN 1794-2:2024) 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of an identical text or by endorsement, at the latest by April 2025, and conflicting national standards shall be withdrawn at the latest by April 2025.

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 supersedes EN 1794-2:2020.

EN 1794-2:2024 includes the following significant technical changes with respect to EN 1794-2:2020:

— The annexes were renumbered. Annex A now includes the safety in case of brushwood fire.

This document is part of the EN 1794 series, which consists of the following parts under the general title “Road traffic noise reducing devices — Non-acoustic performance”:

— *Part 1: Methods of determination of the mechanical and stability characteristics;*

— *Part 2: Methods of determination of the general safety and environmental characteristics.*

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Introduction

While performing their primary function, road traffic noise reducing devices should not pose hazards to road users or other people in the vicinity or to the environment at large. Noise reducing devices should not reflect light in such a way as to prejudice road safety. They should be made from materials which do not emit noxious fumes or leachates as the result of natural or industrial processes, or as the result of fire. Noise reducing devices should allow a means of escape by road users and access by operatives in the event of an emergency or for maintenance.

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1 Scope

This document specifies methods and criteria for assessing the general safety and environmental performance of road traffic noise reducing devices under typical roadside conditions. Appropriate test methods are provided where these are necessary. The treatment of each topic is covered separately in Annexes A to F.

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 1794-1:2024, *Road traffic noise reducing devices — Non-acoustic performance — Part 1: Mechanical performance and stability characteristics*

EN ISO 2813:2014, *Paints and varnishes - Determination of gloss value at 20°, 60° and 85° (ISO 2813:2014)*

3 Terms, definitions and symbols

3.1 Terms and definitions

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

3.1.1

road traffic noise reducing device

RTNRD

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

Note 1 to entry: RTNRDs can comprise *acoustic elements* (3.1.2) only, or both *structural* (3.1.3) and *acoustic elements*.

Note 2 to entry: Applications of RTNRDs include *noise barriers* (3.1.5), *claddings* (3.1.6), *covers* (3.1.7) and *added devices* (3.1.8).

3.1.2

acoustic element

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

3.1.3

structural element

element whose primary function is to support or hold in place the parts of the RTNRD

3.1.4

self-supporting acoustic element

acoustic element including its own structural element to support itself

3.1.5

noise barrier

noise-reducing device which obstructs the direct transmission of airborne sound emanating from road traffic