

STN	Zariadenia na zníženie hluku z cestnej dopravy Neakustické vlastnosti Časť 1: Spôsobý stanovenia mechanických vlastností a vlastností týkajúcich sa stability	STN EN 1794-1 73 6042
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Road traffic noise reducing devices - Non-acoustic performance - Part 1: Methods of determination of the mechanical and stability characteristics

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. 03/25

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English Version

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

Dispositifs de réduction du bruit du trafic routier -
Performances non acoustiques - Partie 1 : Méthode de
détermination des caractéristiques mécaniques et de
stabilité

Lärmschutzvorrichtungen an Straßen - Nichtakustische
Eigenschaften - Teil 1: Verfahren zur Bestimmung
mechanischer Eigenschaften der Standsicherheit

This European Standard was approved by CEN on 9 September 2024.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EN 1794-1:2024 (E)

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EN 1794-1:2024 (E)**European foreword**

This document (EN 1794-1:2024) 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of an identical text or by endorsement, at the latest by April 2025, and conflicting national standards shall be withdrawn at the latest by April 2025.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 1794-1:2018+AC:2018.

EN 1794-1:2024 includes the following significant technical change with respect to EN 1794-1:2018+AC:2018:

- Annex A: the acceptance criteria for the resistance against horizontal loads given in the previous version of this standard have been transferred to EN 14388.

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.*

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 implement this European Standard: 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.

Introduction

While performing their primary function, road traffic noise reducing devices are exposed to a range of forces due to wind, dynamic air pressure caused by passing traffic and the self-weight of its component parts. They can also be subjected to shocks caused by stones or other debris thrown up by vehicle tyres and, in some countries, the dynamic force of snow ejected by equipment used to clear roads in winter. The deflections of a noise reducing device under such loads during its design life should not reduce its effectiveness.

EN 1794-1:2024 (E)**1 Scope**

This document specifies criteria to categorize road traffic noise reducing devices according to basic mechanical characteristics under standard conditions of exposure, irrespective of the materials used. A range of conditions and optional requirements is provided in order to take into account the wide diversity of practice in Europe. Individual aspects of performance are covered separately in the annexes. Safety considerations in the event of damage to road noise reducing devices are covered in EN 1794-2.

This document covers the current behaviour of the product. For the assessment of its long-term characteristics, EN 14389 is applicable.

NOTE The test procedure described in Annex A does not consider the fatigue effect.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes a requirement 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, *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*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN