



SLOVENSKI STANDARD SIST EN 14389:2024

01-februar-2024

Nadomešča:
SIST EN 14389-1:2015

Protihrupne ovire za cestni promet - Postopki za ocenjevanje dolgoročne učinkovitosti

Road traffic noise reducing devices - Procedures for assessing long term performance

Lärmschutzvorrichtungen an Straßen - Verfahren zur Bewertung der Langzeitwirksamkeit

Dispositifs de réduction du bruit du trafic routier - Méthodes d'évaluation des performances à long terme

Ta slovenski standard je istoveten z: **EN 14389:2023**

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ICS:

17.140.30	Emisija hrupa transportnih sredstev	Noise emitted by means of transport
93.080.30	Cestna oprema in pomožne naprave	Road equipment and installations

SIST EN 14389:2024

en,fr,de

EUROPEAN STANDARD

EN 14389

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2023

ICS 93.080.30

Supersedes EN 14389-1:2015, EN 14389-2:2015

English Version

Road traffic noise reducing devices - Procedures for assessing long term performance

Dispositifs de réduction du bruit du trafic routier -
Méthodes d'évaluation des performances à long terme

Lärmschutzvorrichtungen an Straßen - Verfahren zur
Bewertung der Langzeitwirksamkeit

This European Standard was approved by CEN on 28 May 2023.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists 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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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Contents	Page
European foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Determination of the characteristics	6
5 Report	8
Annex A (normative) Roadside exposure – Classification of environmental conditions	9
Annex B (informative) Material standards	11
B.1 General	11
B.2 References for material standards	11
Bibliography	14

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[SIST EN 14389:2024](https://standards.iteh.ai/catalog/standards/sist/b0b34448-2551-4670-8bae-c98881a16703/sist-en-14389-2024)

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European foreword

This document (EN 14389:2023) 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 March 2024, and conflicting national standards shall be withdrawn at the latest by March 2024.

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 14389-1:2015 and EN 14389-2:2015.

The main change compared to the previous edition is the inclusion of the method for assessing long term performance regarding “non-acoustic” characteristics.

This document is intended to be read in conjunction with:

- EN 14388, *Road traffic noise reducing devices — Characteristics*;
- EN 1793, *Road traffic noise reducing devices — Test method for determining the acoustic performance*:
 - *Part 1: Intrinsic characteristics — Sound absorption under diffuse sound field conditions*;
 - *Part 2: Intrinsic characteristics — Airborne sound insulation under diffuse sound field conditions*;
 - *Part 5: Intrinsic characteristics — Sound absorption under direct sound field conditions*;
 - *Part 6: Intrinsic characteristics — Airborne sound insulation under direct sound field conditions*;
- EN 1794, *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*;
- prEN 17383, *Road traffic noise reducing devices — Sustainability: Key Performance Indicators (KPIs) Declaration*.

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.

EN 14389:2023 (E)**Introduction**

Road traffic noise reducing devices alongside roads are expected to maintain their characteristics during the declared working life.

Resistance to electrolytic or/and chemical corrosion and embrittlement, dimensional stability and ageing resistance are considered by the manufacturer for different environmental conditions.

A change of acoustic characteristics can be foreseen depending on the material used and the environmental exposure conditions. Significant deterioration of the acoustic characteristics is avoided when appropriate materials for the roadside environment are used and manufacturer's recommendations for installation and maintenance are respected.

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