

<b>STN</b>	<b>Zariadenia na zníženie hluku z cestnej dopravy Metódy hodnotenia dlhodobej účinnosti</b>	<b>STN EN 14389</b>  73 6043
------------	---	--

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

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. 11/23

Obsahuje: EN 14389:2023

Oznámením tejto normy sa ruší  
STN EN 14389-1 (73 6043) z októbra 2015

STN EN 14389-2 (73 6043) z októbra 2015

**137670**

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.

CEN members are the national standards bodies of 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 United Kingdom.



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

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

**EN 14389:2023 (E)**

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

## 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.

## **1 Scope**

This document specifies a method for evaluating the working life of noise reducing devices used alongside roads according to the relevant exposure conditions.

It also specifies a method for determining the acoustic characteristic at the end of the working life.

## **2 Normative references**

There are no normative references in this document.

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**