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Road traffic noise reducing devices - Sustainability: Key Performance Indicators (KPIs) Declaration

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. 09/24

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EUROPEAN STANDARD

EN 17383

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English Version

Road traffic noise reducing devices - Sustainability: Key Performance Indicators (KPIs) Declaration

Dispositifs de réduction du bruit du trafic routier -
Contribution au développement durable : Déclaration
des indicateurs d'impact environnemental

Lärmschutzvorrichtungen an Straßen -
Nachhaltigkeitsbewertung: Deklaration der
Leistungsindikatoren

This European Standard was approved by CEN on 29 January 2024.

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

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EN 17383:2024 (E)

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European foreword

This document (EN 17383:2024) has been prepared by the Technical Committee CEN/TC 226 “Road equipment”, the secretariat of which is held by AFNOR, it concerns the whole life sustainability of Road Traffic Noise Reducing Devices (RTNRDs).

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of an identical text or by endorsement, at the latest by October 2024, and conflicting national standards shall be withdrawn at the latest by October 2024.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.

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.

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EN 17383:2024 (E)**Introduction**

When placing a construction product on the European market the manufacturer may be expected to present a Declaration of Performance (DoP) with reference to the Basic Work Requirements (BWRs) as listed in the CPR (Construction Product Regulation EU 305/2011).

The performance declared with reference to BWR 7 (Sustainable Use of Natural Resources) corresponds to the Environmental Product Declaration (EPD) as referred to in EN 15804:2012+A2:2019/AC:2021 which provides core rules for all construction products and services.

This document provides specific rules for Environmental Product Declarations (EPD) specifically for Road Traffic Noise Reducing Devices (RTNRD).

It is intended as a supporting standard for the manufacturer to declare the performance of RTNRD in the context of the assessment of the sustainability of civil engineering works as in EN 17472:2021: Sustainability of construction works — Sustainability assessment of civil engineering works — Calculation methods.

This document presents Environmental Impact Indicators the RTNRD manufacturers will provide to declare the performance of RTNRD with reference to BWR7 and to allow better understanding on how their product can be considered “sustainable”.

Considerations for materials (e.g. steel coils, panels of mineral wools, acryl transparent sheet, ..) if not related to the intended use (RTNRD) are not covered by this document.

This document is also intended to help manufacturers to identify the materials and product stages with the most important impact on different sustainability aspects.

Besides manufacturers other users of present standard are foreseen:

- designers when calculating the Life Cycle Assessment (LCA) of the product used.
- Third parties implementing infrastructure rating systems to determine how the project of the construction work has incorporated sustainability.
- Procuring entities can use the Environmental Impact Indicators in tender specifications to promote more sustainable solutions and innovations.
- Private developers to use RTNRDs on their own land like those used on public roads.

Declared Environmental Impact Indicators will be provided according to the valid standards at the time of product placing on the market.

1 Scope

This document complements the core rules for the product category of construction products as defined in EN 15804:2012+A2:2019/AC:2021 and is intended to be used as a c-PCR in conjunction with that standard.

This document applies for RTNRDs in the context of a civil engineering works.

It defines the parameters to be reported, what EPD types (and life cycle stages) to be covered, what rules to be followed to generate Life Cycle Inventories (LCI) and conduct Life Cycle Impact Assessment (LCIA) and the data quality to be used in the development of EPDs.

In addition to the common parts of EN 15804:2012+A2:2019/AC:2021, this European Standard for RTNRD

- gives guidance on declared units.
- Defines the system boundaries.
- Provides guidance/specific rules for the determination of the reference service life.
- Gives guidance on the establishment of default scenarios.

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 15804:2012+A2:2019, *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*

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