SLOVENSKI STANDARD
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Železniške naprave - Aerodinamika - 4. del: Zahteve in ugotavljanje skladnosti za aerodinamiko na odprti progi (vključno z dopolnilom A1)

Railway applications - Aerodynamics - Part 4: Requirements and assessment procedures for aerodynamics on open track

Bahnanwendungen - Aerodynamik - Teil 4: Anforderungen und Bewertungsverfahren für Aerodynamik auf offener Strecke

Applications ferroviaires - Aérodynamique - Partie 4: Exigences et procédures d'évaluation pour l'aérodynamique à l'air libre

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45.060.01	Železniška vozila na splošno	Railway rolling stock in general

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This European Standard was approved by CEN on 27 February 2024 and includes Amendment 1 approved by CEN on 9 April 2025.

EUROPEAN COMMITTEE FOR STANDARDIZATION
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European foreword

This document (EN 14067-4:2024+A1:2025) has been prepared by Technical Committee CEN/TC 256 “Railway Applications”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.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 includes Amendment 1 approved by CEN on 9 April 2025.

This document supersedes [A1] EN 14067-4:2024 [A1].

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A1] [A1].

Results of the EU-funded research project “AeroTRAIN” (Grant Agreement No. 233985) are contained in this document.

[A1] *Deleted paragraphs* [A1]

This document has been prepared under a standardization request addressed to CEN by the European Commission.

EN 14067, *Railway applications — Aerodynamics* consists of the following parts:

— Part 4: Requirements and assessment procedures for aerodynamics on open track;

— Part 5: Requirements and assessment procedures for aerodynamics in tunnels;

— Part 6: Requirements and assessment procedures for cross wind assessment;

— Part 7 (TR): Fundamentals for test procedures for train-induced ballast projection.

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Introduction

Trains running on open track generate aerodynamic loads on objects and persons they pass. If trains are being passed by other trains, trains are also subject to aerodynamic loading themselves. The aerodynamic loading caused by a train passing an object or a person near the track, or when two trains pass each other, is an important interface parameter between the subsystems of rolling stock, infrastructure and operation. It is thus subject to regulation when specifying the trans-European railway system.

Trains running on open track must overcome a running resistance which has a strong effect on the required engine power, achievable speed, travel time and energy consumption. Thus, running resistance is often subject to contractual agreements and requires standardized test and assessment methods. The test set-up for ballast projection was also updated.