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KONSTRUKTSIOONINÕUDED ASTMETELE,
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JUURDEPÄÄSUTEDELE. OSA 2: KAUBAVAGUNID

Railway applications - Design requirements for steps,
handrails and associated access for staff - Part 2:
Freight wagons

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 16116-2:2024 sisaldab Euroopa standardi EN 16116-2:2024 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 12.06.2024.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 16116-2:2024 consists of the English text of the European standard EN 16116-2:2024.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 12.06.2024.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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EUROPEAN STANDARD

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Railway applications - Design requirements for steps, handrails and associated access for staff - Part 2: Freight wagons

Applications ferroviaires - Exigences pour la
construction des marchepieds, poignées et accès
personnel - Partie 2 : Wagons

Bahnwendungen - Konstruktionsanforderungen an
Tritte, Handgriffe und entsprechende Zugänge für das
Personal - Teil 2: Güterwagen

This European Standard was approved by CEN on 12 May 2024.

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European foreword

This document (EN 16116-2:2024) 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of an identical text or by endorsement, at the latest by December 2024, and conflicting national standards shall be withdrawn at the latest by December 2024.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 16116-2:2021.

This document is part of the series EN 16116, *Railway applications — Design requirements for steps, handrails and associated access for staff*, which consists of the following parts:

- *Part 1: Passenger vehicles, vans and locomotives;*
- *Part 2: Freight wagons.*

EN 16116-2:2024 includes the following significant technical changes with respect to EN 16116-2:2021:

- a) concretization of the scope (heavy rail);
- b) revision of figures;
- c) minor corrections to clarify the requirements.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

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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Introduction

Freight wagons are designed so that staff are not exposed to undue risk during coupling and access to the vehicle or to special equipment.

This document gives requirements related to steps, handrails and shunter's steps for freight wagons, to allow temporary travel outside the vehicle during shunting as well as to access the vehicle.

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1 Scope

This document is applicable to all types of heavy rail freight wagons.

This document specifies the minimum requirements for ergonomic and structural integrity of steps and handrails used together to give staff access. It does not cover ladders, top platforms and top gangways.

This document specifies in particular the required free spaces necessary for handrails below buffer, for shunter's stand, for steps and handrails.

This document also specifies their dimensions, positions, limits for durability and functionality.

This document also specifies the general requirements for the access to tail lights.

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 10025-2:2019, *Hot rolled products of structural steels — Part 2: Technical delivery conditions for non-alloy structural steels*

EN 12561-7:2011, *Railway applications — Tank wagons — Part 7: Platforms and ladders*

EN 15085-3:2022+A1:2023, *Railway applications — Welding of railway vehicles and components — Part 3: Design requirements*

EN 15273-2:2013+A1:2016, *Railway applications — Gauges — Part 2: Rolling stock gauge*

EN 17343:2023, *Railway applications — General terms and definitions*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 17343:2023 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

clearance

defined free space which is needed to ensure space for the correct functioning of, and safety when handling, devices

3.2

step

footstep with defined properties solely for staff use