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STN	**Železnice Priechodné prierezy a obrysy Časť 3: Infraštruktúra**	**STN EN 15273-3 28 0320**

Railway applications - Gauges - Part 3: Infrastructure

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Railway applications - Gauges - Part 3: Infrastructure

Applications ferroviaires - Gabarits - Partie 3 : Infrastructure

Bahnanwendungen - Begrenzungslinien - Teil 3: Infrastruktur

This European Standard was approved by CEN on 16 June 2025.

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European foreword

This document (EN 15273-3:2025) 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of an identical text or by endorsement, at the latest by April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.

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 is one of the series EN 15273, *Railway applications — Gauges* as listed below:

— EN 15273-1:2025, *General — Common rules for rolling stock and infrastructure* gives the general explanations of gauging and defines the sharing of the space between rolling stock and infrastructure;

— EN 15273-2:2025, *Rolling stock* gives the rules for dimensioning vehicles;

— EN 15273-3:2025, *Infrastructure* gives the rules for positioning the infrastructure;

— EN 15273-4:2025, *Catalogue of defined gauges* includes a non-exhaustive list of reference profiles and parameters to be used by infrastructure and rolling stock;

— CEN/TR 15273-5:2025, *Background, explanation and worked examples*.

This document supersedes EN 15273-3:2013+A1:2016.

In comparison with the previous edition, the following technical modifications have been made:

— the series was fully restructured, from three parts to five parts;

— Clause 3 and Clause 4 now refer to EN 15273-1:2025 where all terms and symbols are defined;

— reorganization of clauses from previous editions;

— creation of a new Clause 6 for absolute and comparative gauging process;

— all worked examples moved into the new CEN/TR 15273-5:2025;

— Table B.1 moved into the informative Annex A;

— all reference profiles and basics data from normative Annex C and normative Annex D moved into the new EN 15273-4:2025;

— normative Annex F moved into informative Annex C;

— informative Annex H moved into informative Annex D;

— creation of a new informative Annex F about tilting trains.

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.

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.

Introduction

The aim of this series EN 15273 is to define the rules for the calculation and verification of the dimensions of rolling stock and infrastructure from a gauging perspective.

This series EN 15273 sets out gauging processes taking into account the relative movements between rolling stock and infrastructure as well as the necessary margins or clearances.

EN 15273-3:2025 covers requirements for infrastructure and is used in conjunction with the following parts:

— *Part 1: General — Common rules for rolling stock and infrastructure*;

— *Part 2: Rolling stock*;

— *Part 4: Catalogue of defined gauges*;

— *Part 5: Background, explanation and worked examples*.

1 Scope

This document:

— lists the formulae and the associated rules needed to calculate the infrastructure gauge;

— lists the various phenomena to be taken into account to determine the infrastructure gauge;

— defines a methodology that may be used to calculate the various profiles from these phenomena;

— lists the rules to determine the distance between the track centres;

— lists the rules to be complied with when building the platforms;

— lists the rules to determine the pantograph gauge;

— provides recommendations for the various profiles needed to install, verify and maintain infrastructure;

and is applicable for various track gauges.

This document is applicable to heavy rail networks using various track gauges. Other vehicles and networks are outside the scope of this document, but the rules may be applied to them with some adjustments and agreement of the share of responsibility between rolling stock and infrastructure.

This document is not applicable to the gauges “S” and “T” for track gauge 1 520 mm.

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 13232-1:2023, *Railway applications — Track — Switches and crossings for Vignole rails — Part 1: Definitions*

EN 13232-2:2023, *Railway applications — Track — Switches and crossings for Vignole rails — Part 2: Requirements for geometric design*

EN 13232-3:2023, *Railway applications — Track — Switches and crossings for Vignole rails — Part 3: Requirements for wheel/rail interaction*

EN 13232-4:2023, *Railway applications — Track — Switches and crossings for Vignole rails — Part 4: Actuation, locking and detection*

EN 13232-5:2023, *Railway applications — Track — Switches and crossings for Vignole rails — Part 5: Switches*

EN 13232-6:2023, *Railway applications — Track — Switches and crossings for Vignole rails — Part 6: Fixed common and obtuse crossings*

EN 13232-7:2023, *Railway applications — Track — Switches and crossings for Vignole rails — Part 7: Crossings with moveable parts*

EN 13232-8:2023, *Railway applications — Track — Switches and crossings for Vignole rails — Part 8: Expansion devices*

EN 13232-9:2023, *Railway applications — Track — Switches and crossings for Vignole rails — Part 9: Layouts*

EN 15273-1:2025, *Railway applications — Gauges — Part 1: General – Common rules for Infrastructure and rolling stock*

EN 15273-2:2025, *Railway Applications — Gauges — Part 2: Rolling stock*

EN 15273-4:2025, *Railway Applications — Gauges — Part 4: Catalogue of defined gauges*

EN 50119:2020, *Railway applications — Fixed installations - Electric traction overhead contact lines*

EN 50367:2020[1], *Railway applications — Fixed installations and rolling stock — Criteria to achieve technical compatibility between pantographs and overhead contact line*

[1] Document impacted by EN 50367:2020/A1:2022 and EN 50367:2020/A2:2025.