SLOVENSKI STANDARD
SIST EN 16431:2026

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Nadomešča:
SIST EN 16431:2014

Železniške naprave - Infrastruktura - Votli pragovi in nosilci

Railway applications - Infrastructure - Hollow sleepers and bearers

Bahnanwendungen - Infrastruktur - Hohlschwellen für Gleise und Weichen

Applications ferroviaires - Voie - Traverses et supports creux

Ta slovenski standard je istoveten z: **EN 16431:2026**

ICS:

45.080	Tračnice in železniški deli	Rails and railway components
93.100	Gradnja železnic	Construction of railways

SIST EN 16431:2026 **en,fr,de**

EUROPEAN STANDARD

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Railway applications - Infrastructure - Hollow sleepers and bearers

Applications ferroviaires - Infrastructure - Traverses et supports creux

Bahnanwendungen - Infrastruktur - Hohlschwellen für Gleise und Weichen

This European Standard was approved by CEN on 13 April 2026.

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

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

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European foreword

This document (EN 16431:2026) 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of an identical text or by endorsement, at the latest by December 2026, and conflicting national standards shall be withdrawn at the latest by December 2026.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 supersedes EN 16431:2014.

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.

In comparison with EN 16431:2014, the following technical modifications have been made:

— update clauses concerning the rail fastening system and references to the new fastening system standard series;

— improve the document with the latest experience acquired by suppliers and customers in the field of design of hollow sleepers and bearers;

— include improvements about acceptance procedures, particularly with regard to the testing of hollow sleeper body and its fastening system interface.

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.

1 Scope

This document defines technical criteria and control procedures which are satisfied by hollow sleepers and bearers used in ballasted track with Vignole rails. The hollow sleepers and bearers designed for ballasted track can also be used in ballastless track. In this case, the requirements are defined by the customer.

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 13481-7:2022, *Railway applications - Track - Performance requirements for fastening systems - Part 7: Fastening systems for switches and crossings, check rails, insulated rail joints and rail expansion devices*

EN ISO 22074-3, *Railway infrastructure — Rail fastening systems — Part 3: Proof load test method for pull-out resistance (ISO 22074-3)*

EN ISO 22074-4, *Railway infrastructure — Rail fastening systems — Part 4: Test methods for resistance to repeated loading (ISO 22074-4)*

EN ISO 22074-5, *Railway infrastructure — Rail fastening systems — Part 5: Test method for electrical resistance (ISO 22074-5)*

EN ISO 22074-6, *Railway infrastructure — Rail fastening systems — Part 6: Test method for resistance to severe environmental conditions (ISO 22074-6)*

EN ISO 22074-8, *Railway infrastructure — Rail fastening systems — Part 8: Test method for vertical stiffness (ISO 22074-8)*

EN 50125-3, *Railway applications - Environmental conditions for equipment – Part 3: Equipment for signalling and telecommunications*

EN 13230-2:2016, *Railway applications - Track - Concrete sleepers and bearers - Part 2: Prestressed monoblock sleepers*

EN 17343, *Railway applications - General terms and definitions*

EN 16730:2016, *Railway applications - Track - Concrete sleepers and bearers with under sleeper pads*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 17343 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/