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Irish Standard
I.S. EN 16431:2014

Railway applications - Track - Hollow sleepers and bearers

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This document is based on:	*Published:*
EN 16431:2014	2014-07-16

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2014-08-02	93.100
	NOTE: If blank see CEN/CENELEC cover page

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EUROPEAN STANDARD **EN 16431**

NORME EUROPÉENNE

EUROPÄISCHE NORM July 2014

ICS 93.100

English Version

Railway applications - Track - Hollow sleepers and bearers

Applications ferroviaires - Voie - Traverses et supports creux

Bahnanwendungen - Oberbau - Hohlschwellen für Gleise und Weichen

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Foreword

This document (EN 16431:2014) 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of an identical text or by endorsement, at the latest by January 2015 and conflicting national standards shall be withdrawn at the latest by January 2015.

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1 Scope

This European Standard 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, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13481 (all parts), *Railway applications - Track - Performance requirements for fastening systems*

EN 13146-3, *Railway applications - Track - Test methods for fastening systems - Part 3: Determination of attenuation of impact loads*

EN 13146-5, *Railway applications - Track - Test methods for fastening systems - Part 5: Determination of electrical resistance*

EN 13146-6, *Railway applications - Track - Test methods for fastening systems - Part 6: Effect of severe environmental conditions*

EN 13146-9, *Railway applications - Track - Test methods for fastening systems - Part 9: Determination of stiffness*

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

EN ISO 7500-1, *Metallic materials - Verification of static uniaxial testing machines - Part 1: Tension/compression testing machines - Verification and calibration of the force-measuring system (ISO 7500-1)*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1
hollow sleepers
sleepers and bearers with hollow structure, with support for Vignole rails on ballasted or ballastless track, including the fastenings systems and all components, with a minimum of 50 % of the cross sectional-area hollow throughout its length

3.1.2
body
hollow structure which is in contact with the ballast/slab and supports the fastening system and other components

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