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Railway applications - Track - Switches and crossings for Vignole rails - Part 6: Fixed common and obtuse crossings

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/23

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Railway applications - Track - Switches and crossings for Vignole rails - Part 6: Fixed common and obtuse crossings

Applications ferroviaires - Voie - Appareils de voie pour rails Vignole - Partie 6 : Cœurs de croisement et de traversée à pointes fixes Bahnanwendungen - Oberbau - Weichen und Kreuzungen für Vignolschienen - Teil 6: Starre einfache und doppelte Herzstücke

This European Standard was approved by CEN on 23 October 2022.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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

EN 13232-6:2023 (E)

Cont	ontents	
_		
European foreword		
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
3.1	Types of crossings	6
3.2	Rail joints	7
3.3	Parts of crossings	8
3.4	Parts specific to obtuse crossings	
3.5	Definitions of geometry terms for crossings	
3.5.1	Common crossing features	12
3.5.2	Obtuse crossing features	16
3.5.3	Crossing angle measurement	19
4	Performance requirements	10
4.1	General	
4.2	Materials	
4.2.1	General	
4.2.2	Assembled crossings, semi-assembled/assembled monobloc	
4.2.3	Monobloc with or without welded legs	
4.3	Inclination of the running table	
	<u> </u>	
5	Design requirements	
5.1	Geometric data	
5.2	Construction	
5.3	Joints	
5.4	Rolling stock data	
5.4.1	General	
5.4.2	Axle load	
5.4.3	Maximum speed	
5.5	Supports and fastenings	21
5.6	Other requirements	
5.7	Drawings	22
6	Tolerances and inspection	22
6.1	General	22
6.2	Tools and instruments	22
6.3	Critical dimensions	22
6.4	Certification	29
6.5	Methods of examination for structural defects	29
7	Limit and extent of supply	29
8	Identification marks	
Anne	x ZA (informative) Relationship between this European Standard and the Essential	
	Requirements of EU Directive (EU) 2016/797 aimed to be covered	31
Riblic	ogranhy	32

European foreword

This document (EN 13232-6:2023) 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 2024, and conflicting national standards shall be withdrawn at the latest by April 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 13232-6:2005+A1:2011.

This series of standards "Railway applications – Track – Switches and crossings for Vignole rails" covers the design and quality of switches and crossings in flat bottomed rail. The list of Parts is as follows:

- Part 1: Definitions
- Part 2: Requirements for geometric design
- Part 3: Requirements for wheel/rail interaction
- Part 4: Actuation, locking and detection
- Part 5: Switches
- Part 6: Fixed common and obtuse crossings
- Part 7: Crossings with moveable parts
- Part 8: Expansion devices
- Part 9: Layouts

Part 1 contains terminology used throughout all parts of this series. Parts 2 to 4 contain basic design guides and are applicable to all switch and crossing assemblies. Parts 5 to 8 deal with particular types of equipment including their tolerances. These use Parts 1 to 4 as a basis. Part 9 defines the geometric and non-geometric acceptance criteria for inspection of layouts.

The changes introduced in this document bring further detail and clarity to the requirements and a number of the figures, the structure of the document is largely unchanged from the previous revision.

This document has been prepared under a standardisation request addressed to [the relevant ESO] 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.

EN 13232-6:2023 (E)

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:

- establishes a working terminology for fixed crossings and their constituent parts, and identifies the main types;
- specifies the different and varying ways by which crossings can be described using the following parameters:
 - geometry of the crossing;
 - types of construction;
 - design criteria;
 - manufacturing processes;
 - tolerances and inspection.

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 13674-1:2011+A1:2017, Railway applications - Track - Rail - Part 1: Vignole railway rails 46 kg/m and above

EN 13674-2:2019, Railway applications - Track - Rail - Part 2: Switch and crossing rails used in conjunction with Vignole railway rails 46 kg/m and above

EN 13674-3:2006+A1:2010, Railway applications - Track - Rail - Part 3: Check rails

EN 13674-4:2019, Railway applications - Track - Rail - Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m

EN 13803:2017, Railway applications - Track - Track alignment design parameters - Track gauges 1 435 mm and wider

EN 15689:2009, Railway applications - Track - Switches and crossings - Crossing components made of cast austenitic manganese steel

EN 13481-1:2012, Railway applications - Track - Performance requirements for fastening systems - Part 1: Definitions

EN 13232-6:2023 (E)

EN 13481-2:2022, Railway applications - Track - Performance requirements for fastening systems - Part 2: Fastening systems for concrete sleepers

EN 13481-3:2022, Railway applications - Track - Performance requirements for fastening systems - Part 3: Fastening systems for wood sleepers

EN 13481-4:2022, Railway applications - Track - Performance requirements for fastening systems - Part 4: Fastening systems for steel sleepers

EN 13481-5:2022, Railway applications - Track - Performance requirements for fastening systems - Part 5: Fastening systems for slab track with rail on the surface or rail embedded in a channel

EN 13481-7:2022, Railway applications - Track - Performance requirements for fastening systems - Part 7: Special fastening systems for switches and crossings and check rails

EN 13230-1:2016, Railway applications - Track - Concrete sleepers and bearers - Part 1: General requirements

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

EN 13230-3:2016, Railway applications - Track - Concrete sleepers and bearers - Part 3: Twin-block reinforced sleepers

EN 13230-4:2016+A1:2020, Railway applications - Track - Concrete sleepers and bearers - Part 4: Prestressed bearers for switches and crossings

EN 13230-5:2016, Railway applications - Track - Concrete sleepers and bearers - Part 5: Special elements

EN 13230-6:2020, Railway applications - Track - Concrete sleepers and bearers - Part 6: Design

koniec náhľadu – text ďalej pokračuje v platenej verzii STN