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Railway applications - Track - Switches and crossings
for Vignole rails - Part 8: Expansion devices

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 13232-8:2023 sisaldab Euroopa standardi EN 13232-8:2023 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 11.10.2023.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 13232-8:2023 consists of the English text of the European standard EN 13232-8:2023.</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 11.10.2023.</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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NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Railway applications - Track - Switches and crossings for Vignole rails - Part 8: Expansion devices

Applications ferroviaires - Voie - Appareils de voie
pour rails vignole - Partie 8 : Appareils de dilatation

Bahnanwendungen - Oberbau - Weichen und
Kreuzungen für Vignolschienen - Teil 8:
Auszugsvorrichtungen

This European Standard was approved by CEN on 2 January 2023.

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COMITÉ EUROPÉEN DE NORMALISATION
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Contents	Page
European foreword.....	3
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	7
3.1 General definitions.....	7
3.2 Main types of expansion devices	8
4 Design.....	12
4.1 Design inputs	12
4.2 Design rules.....	13
4.2.1 General rules.....	13
4.2.2 Wheel/rail interaction	14
4.2.3 Specific rules.....	14
4.3 Performance requirements.....	15
4.4 Materials.....	15
4.5 Design output	15
4.5.1 Detailed component drawings	15
4.5.2 Assembly documents	16
5 Tolerances and inspection.....	16
5.1 General.....	16
5.2 Tools and instruments	16
5.3 Critical dimensions.....	16
5.3.1 Adjustment switch (bayonet type).....	16
5.3.2 Expansion switch.....	21
5.4 Certification.....	28
5.5 Methods of examination for structural defects.....	28
6 Testing of longitudinal forces by expansion/contraction.....	28
6.1 Test method	28
6.2 Test results	29
7 Acceptance testing	29
8 Limits and extent of supply	29
9 Identification marks.....	29
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive (EU) 2016/797 aimed to be covered.....	30
Bibliography	32

European foreword

This document (EN 13232-8:2023) 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 13232-8:2007+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-geometrical acceptance criteria for inspection of layouts.

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.

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Introduction

An expansion device is a device that permits longitudinal relative rail movement of two adjacent rails, while maintaining correct guidance and support.

These longitudinal movements may be required in:

- a) interrupted continuously welded rail (CWR);
- b) structure movement;
- c) or a combination of both.

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1 Scope

This document

- establishes a working terminology for expansion devices, for their constituent parts and for the types
- specifies the minimum manufacturing requirements for expansion devices and their constituent parts
- formulates codes of practice for inspection and tolerances
- defines the method by which expansion devices and their parts should be identified.

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 13146-1:2019, *Railway applications - Track - Test methods for fastening systems - Part 1: Determination of longitudinal rail restraint*

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

EN 13715:2020, *Railway applications - Wheelsets and bogies - Wheels - Wheels tread*

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*